

ON1 Sky Swap Al From A to Z

The Official ON1 Sky Swap Al User Guidebook

Photo © OcuDrone

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PART 1: GETTING STARTED WITH SKY SWAP AI



ON1 Sky Swap Al 2023 is a full-featured app with one overarching goal: to make replacing or enhancing a dull sky a breeze. Sky Swap automatically detects skies in your photos and masks them out using Al-based technology. Once the mask has been created, you can select a replacement sky from one of the over 100 skies included with the app, or you can or import your own directly from within the Sky Swap app.

Sky Swap gives you full control over the mask used to blend the sky, and you can use many of the other masking tools to adjust it as needed. You can edit the sky to blend better with your foreground, or even blur the sky to simulate a long exposure. Sky Swap can also adjust the foreground lighting and color, and add a reflection of the sky to bodies of water in the foreground.

Sky Swap also includes a local adjustment editor, which is designed to help you with your finish editing. Using that option, you can create masks of the foreground elements in your photo and adjust standard post-processing controls such as exposure, contrast, highlights and shadows, color balance, and much more.

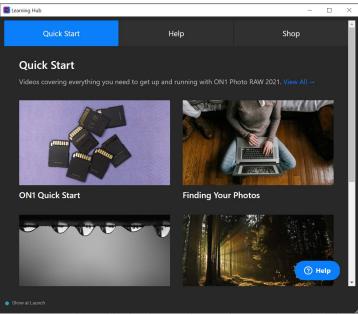
You can use Sky Swap AI as a standalone app, or as a plug-in to a photo editor such as Adobe's Photoshop, Lightroom Classic CC, Photoshop Elements, Affinity Photo, Capture One, Corel PaintShop Pro or Apple's Photos. When used as a standalone, or from within Lightroom, Photoshop or Apple Photos, Sky Swap can preserve your edits so you can rework your photos at a later time, without losing your previous work.

Getting Help

You can find an extensive collection of video tutorials and help documents in the Help section of the ON1 website (on1help. zendesk.com). There, you can search our Knowledge Base for frequently asked questions, common issues and more.

Inside Sky Swap AI, you can use the Learning Hub to directly display videos for getting started with the app, search the ON1 online help system—including with an online chat assistant—and the ON1 Shop, where you can purchase add-ons and courses.

The Learning Hub is accessible via the Help menu or from the Help icon at the bottom of the left bumper panel.



The Learning Hub is available directly from within ON1 Sky Swap Al 2023, and includes links to videos (which can be played directly in the Hub window), online help system, and more

System Requirements

	MINIMUM	RECOMMENDED
OPERATING SYSTEM	macOS 10.15.6 and above; Windows 10/11 (current maintenance releases, 64-bit only)	macOS 12 or Windows 11 (current maintenance releases, 64-bit only)
PROCESSOR	Intel or AMD processor with 64-bit support, 2 GHz or faster with SSE 4.2 or later; Apple Silicon	
RAM	8 GB	16 GB or more
HARD DRIVE	2 GB for installation	2 GB for installation; SSD drive
DISPLAY	Windows: DirectX 12, DirectML, Vulkan 1.1, and OpenGL 4.2 compatible video card with 2GB VRAM, 1920x1080 resolution (at 100% scale factor)	Windows: DirectX 12, DirectML, Vulkan 1.1, and OpenGL 4.2 compatible video card with 8GB VRAM, 1920x1080 resolution (at 100% scale factor)
	macOS: Metal, Vulkan 1.1, and OpenGL 4.2 compatible video card with 2GB VRAM, 1920x1080 resolution (at 100% scale factor)	macOS: Metal, Vulkan 1.1, and OpenGL 4.2 compatible video card with 8GB VRAM, 1920x1080 resolution (at 100% scale factor)
OPTIONAL APPLICATION INTEGRATION	Photoshop CC 2020 and above; Photoshop Elements 2020 and above; Photoshop Lightroom Classic 2020 and above; Apple Photos; Affinity Photo; Corel Paint Shop Pro 2019 and above; Capture One 10 and above	
	A high-speed internet connection and active account for activation, auto-update	
INTERNET	checking, content downloads, and tutorials.	
SUPPORTED OPTIONS	Supports ICC/ICM profiles for camera input, display, soft-proofing, and printing. Hardware display calibration tool is recommended.	
LANGUAGES	English, German, Spanish, French, Japanese, Korean, Simplified Chinese, Russian, Portuguese, Italian, Dutch	

Installation

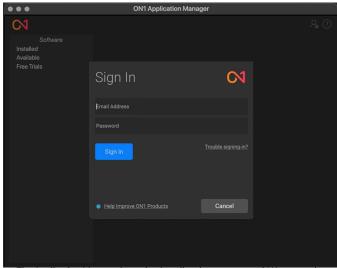
To install ON1 Sky Swap Al 2023, you must first download and install the ON1 Application Manager, which manages your ON1 applications and free trials. Once you've installed the Application Manager, double-click on the app icon. You will first be prompted to sign in to your ON1 account. The Application Manager will then communicate with the ON1 servers, and display any apps you already have installed, as well as any newer apps that are available for your account. To install Sky Swap, choose Available from the list on the left side of the window, and click on the Install button for the ON1 Sky Swap Al 2023 item. The Application Manager will install Sky Swap in the proper location, and add it to the Installed section. From there, you can open the app. The first time you launch Sky Swap AI, you'll need to sign in again to your ON1 account; after that you're software will be authenticated.

Your license lets you install Sky Swap on two computers. When you enter your ON1 account info, Sky Swap communicates with the ON1 activation server and registers your software for that computer.

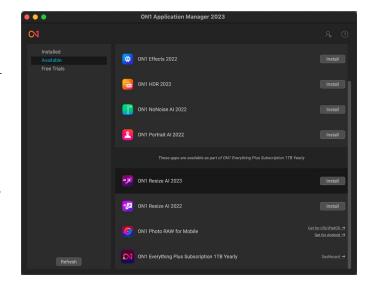
If you wish to move your copy of Sky Swap from one registered computer to a new one, and you are not going to be using the older machine, it is best to sign out of the old computer first. Open Sky Swap and select Sign Out from the Help menu. This will deactivate Sky Swap on the current machine, and you can install and sign in on another machine from the Application Manager.

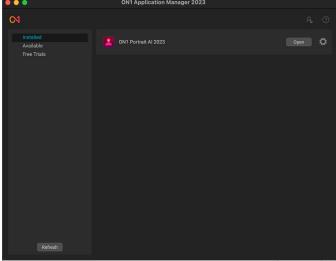
FREE TRIAL VERSION

ON1 Sky Swap AI 2023 can also operate as a fully featured trial version for 15 days from when you first launch it. This gives you time to evaluate the product and see if it fits your needs. To install Sky Swap as a trial, click on the Free Trials label in the Application Manager, and click on the Install button. The Application



The Application Manager is used to install and manage your ON1 apps and plugins. The first time you launch it, you'll need to sign in with your ON1 account details.





When using the ON1 Application Manager, the Available section (shown top) will list all licensed apps and plugins associated with your account. You can install any of those apps by clicking on the Install button, after which they will be listed in the Installed section of the Manager.

Manager will display the number for days left in your trial; to purchase Sky Swap, click on the Buy button in the Free Trials section, or the Buy Now button in the top right corner of the Sky Swap window.

MAC INSTALLATION LOCATION

On a Mac, the application is installed in the ON1 Sky Swap Al 2023 folder in the Applications folder.

If a previous version of ON1's Sky Swap, Perfect Photo 10 or Perfect Photo Suite is found, it will be maintained or replaced based on your preference during installation.

Support files are installed into /Library/Application Support/ and ~/Library/Application Support/ folders.

WINDOWS INSTALLATION LOCATION

The application is installed in the ON1 Sky Swap AI 2023 folder in the \Program Files\ON1\ directory. If a previous version of ON1's Sky Swap, Perfect Photo 10 or Perfect Photo Suite is found, it will be maintained or replaced based on your preference during installation.

Support files are installed into \ProgramData\ON1\.

UPGRADING FROM PREVIOUS VERSIONS

If you have earlier versions of Sky Swap on your computer, the installation process will move over any presets.

PRODUCT IMPROVEMENT PROGRAM

We believe that the best products are made by listening to our customers. We use many methods to gather your ideas and feedback including: emails, surveys, direct conversations, market analysis and the Product Improvement Program. The Product Improvement Program is built into our software and gathers information about how our software is used. It is the most accurate way for us learn what features are important to you and how our products fit into your workflow.

Enrollment in the program is voluntary. When you participate, we collect basic information about how you use our programs and basic information about your computer. This information helps us learn what features are important to you and how we can make our software easier to use. No personal information is collected and you will not be contacted.

You can choose to participate in the Product Improvement Program the first time you launch ON1 Sky Swap AI 2023. You can change your participation later, just click the Help menu, then Help Improve ON1 Products.

To learn more about the Product Improvement Program, go to the Support area of the ON1.com website.

Launching ON1 Sky Swap Al

MACOS

Open the Finder, and navigate to the Applications folder. Find the ON1 Sky Swap AI 2023 folder and open it, then double-click on the ON1 Sky Swap AI 2023 application icon.

You can add ON1 Sky Swap AI 2023 to your dock for easy access by clicking and holding the icon in the dock and selecting the Keep In Dock option. If you use Launchpad it can be found there as well.

WINDOWS

Open the Start screen by pressing the Window key; select ON1 Sky Swap AI 2023. If you selected the "Add Icon to Desktop" option during installation you can also access ON1 Sky Swap AI 2023 from there.

LAUNCHING SKY SWAP FROM AN EXTERNAL APPLICATION

To launch ON1 Sky Swap Al 2023 from an external application, such as Adobe Photoshop or Lightroom, see the sections starting on page 7 for complete instructions.

Uninstalling ON1 Sky Swap Al

To uninstall ON1 Sky Swap AI, first, deactivate your product: open ON1 Sky Swap AI and select Sign Out... from the Help menu. (This will allow you to transfer your license to another computer.)

MACOS

Go to the Applications/ON1 Sky Swap Al/Documentation folder. Double-click on the Remove ON1 Sky Swap Al application.

WINDOWS

Go to Control Panels; under Programs select Uninstall a program. In the list that comes up select ON1 Sky Swap AI and then click on the Uninstall button.

Working with Files

ON1 Sky Swap AI can view and open the following file types, in RGB color mode, at 8 or 16 bits per pixel:

- Raw files from most major camera manufacturers (file extension varies by manufacturer)
- Digital Negative (DNG)
- Photoshop (PSD)
- Photoshop Large Document (PSB)
- Tagged Image File Format (TIFF)
- Joint Photographic Experts Group (JPEG)
- Portable Network Graphic (PNG)
- High Efficiency Image Format (HEIC)

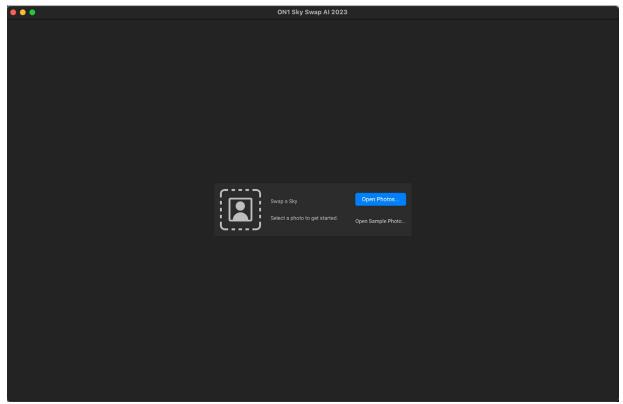
When you finish working on a photo in Sky Swap, you have the option of saving your resulting file in PSD, DNG, TIFF, JPEG, and PNG format.

FILE ACCESS WHEN USING SKY SWAP AI AS A PLUG-IN

If you use ON1 Sky Swap AI as a plug-in from another image editing app (Lightroom, for example), we recommend using the Photoshop format (.PSD) as the exchange file format for maximum compatibility. If your saved file will be larger than 2GB, or more than 30,000 pixels on a side, your image will automatically be saved in the .PSB (or Large Document) format, which is designed for larger file sizes.

Opening a Photo from within Sky Swap Al

When you first launch Sky Swap AI, the main window will have one button: Open Photos. To start working on a photo, you can either drag a photo from your desktop into the window, or you can click on the Open Photo button, which will open a photo within the primary Sky Swap window. (See "Working with Sky Swap AI" on page 20, for detailed information on using Sky Swap's tools.)



You can edit a photo directly from within ON1 Sky Swap by dragging a file into the window, or by clicking on the Open Photos button. The bottom of the window will also display the most recently opened photos from within Sky Swap Al; clicking on one of those will open the original photo, with the settings you used in the previous edit.

Once you've been using Sky Swap AI as a standalone app for a while, the bottom of the start-up window will display the most recently opened files; double-clicking one of those will open the original photo, with the settings in place from the previous session. This can be helpful when you wish to re-edit some aspects of an earlier session.

On both macOS and Windows, you can also drag a photo on top of the Sky Swap AI icon, which will launch the app with that image, bypassing the startup window.

Using ON1 Sky Swap AI with Adobe Photoshop

When you edit an image sent from Photoshop to ON1 Sky Swap AI, you are editing Photoshop's currently selected layer. Sky Swap is accessible from within Photoshop in two ways, from the File > Automate menu, and from the Filter > ON1 menu.

Depending upon your workflow, you might wish to work on the primary Photoshop layer, or you might want Sky Swap to create a duplicate of the layer when it applies retouching. To do this automatically, you must use Sky Swap via the File > Automate menu.

There are two options for editing an image in ON1 Sky Swap AI: you can send the layer to Sky Swap for final editing, or you can save the editing layer as a Smart Object in Photoshop, which will let you re-edit the photo in Sky Swap with your previous settings intact.

EDITING A PHOTO FROM PHOTOSHOP FOR FINAL EDITING

To use Sky Swap as a plug-in from within Photoshop, when you do not wish so be able to re-edit your operations, follow these steps:

- 1. Open the image you want to work on in Photoshop.
- 2. Select the layer you wish to process in Sky Swap.
- From the Filter menu, select ON1 and then ON1 Sky Swap Al 2023, or, if you've chosen to have your working layer automatically duplicated, choose File > Automate > ON1 Sky Swap Al 2023.



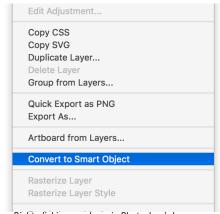
Use the File > Automate menu in Photoshop when you wish to create a duplicate of the current layer when working with Sky Swap

4. When you're finished editing your photo, click the Done button in Sky Swap.

EDITING A PHOTO FROM PHOTOSHOP TO PRESERVE EDITS

To be able to re-edit your Photoshop images at a later point inside ON1 Sky Swap AI, you need to use Photoshop's Smart Object technology. To do this, follow these steps:

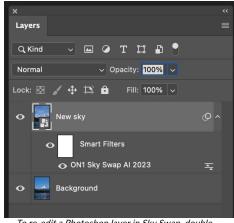
- 1. Open the image you want to work on in Photoshop.
- 2. Select the layer you want to work on.
- 3. Right-click on the layer and choose Convert to Smart Object.
- 4. From the Filter menu, select ON1 > ON1 Sky Swap Al.
- 5. When you're finished editing your photo, click the Done button in Sky Swap.



Right-clicking on a layer in Photoshop's Layers panel gives you the option to turn the layer into a Smart Object..

To re-edit your Smart Object layer again inside ON1 Sky Swap AI, double-click on the ON1 Sky Swap item in the edited Smart Object layer in Photoshop. Sky Swap will then launch and let you adjust your previous settings or make new ones.

NOTE: Due to the way that Smart Objects work inside Photoshop, this method does not use the "Save a copy of the layer" from Sky Swap's Preferences.



To re-edit a Photoshop layer in Sky Swap, doubleclick the module name in the Smart Filters section of the Layers palette.

Using ON1 Sky Swap AI with Photoshop Elements

When you edit an image sent from Photoshop Elements to Sky Swap AI, you are editing Photoshop Elements' currently selected layer. By default, Sky Swap makes a copy of the layer, so your original layer is saved. If you'd like to change this preference, see the Plug-Ins section of the Preferences window (page 88). Photoshop Elements does not support Smart Objects, so all edits performed in Sky Swap AI are final.

EDITING A PHOTO IN PHOTOSHOP ELEMENTS

To use Sky Swap inside Photoshop Elements, follow these steps:

- 1. Open the image you want to work on in Photoshop Elements.
- 2. Select the layer you want to work on.
- 3. From the Filter menu, select ON1 and then ON1 Sky Swap Al.
- 4. When you're finished editing your photo, click the Done button in Sky Swap.

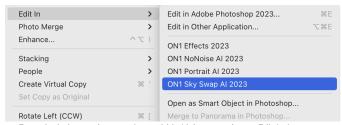
Using Sky Swap AI with Adobe Lightroom Classic

ON1 Sky Swap AI can be accessed from within Lightroom Classic CC, providing an integrated, round-trip workflow of your images. There are two primary ways to use Sky Swap AI with Lightroom, via the Edit In command in the Photo menu and Plug-In Extras command in the File menu. Using the Photo > Edit In menu is designed for simple, permanent sky swaps on single images, while File > Plug-In Extras gives you two additional, and more powerful, options for editing inside Sky Swap AI, including:

- Re-editability via ON1's proprietary Smart Photos format (see page 11), which saves all the edits made in Sky Swap, so that you can re-edit them at a later time.
- Batch processing of multiple images, either to automatically swap skies using Sky Swap's Al Auto mode, or to edit multiple photos in more detail (see page 9).

USING 'EDIT IN'

To swap a sky on a single image, where you don't need to preserve your edits or work with multiple photos, use the Edit In submenu from Lightroom's Photo menu, This is the easiest way to send a photo from Lightroom to Sky Swap. With this option, you are using Lightroom's plugin export system to control the characteristics of the edited file.



For a single-image sky swap from within Lightroom, choose Edit In from Lightroom's Photo menu.

To use this method, select your image in Lightroom, go to the Photo menu and select ON1 Sky Swap Al 2023 from the Edit In submenu.

When you use the Photo > Edit In submenu, Lightroom will ask you each time how you wish to edit the selected image. You have three editing options:

- Edit a Copy with Lightroom Adjustments, which makes a copy of the file that includes any edits you have made in the photo;
- Edit a Copy, which copies the original photo without any changes made in Lightroom; or
- **Edit Original**, which sends the original version of the photo to Sky Swap, unless the photo is a raw file, in which case the option will also be unavailable.

In the Copy File Options, you set the file type (TIFF, Photoshop PSD or JPEG), the color space and bit depth for the resultant file. PSD is the preferred file type.

When you have set your options and click the Edit button, Lightroom will create a new file (or send the original) and launch Sky Swap. There, you can make your edits. When you're finished, click the Done button to save your changes, close Sky Swap, and return the file to Lightroom. To return to Lightroom without saving your edits, click Cancel.

NOTE: While you cannot create a Smart Photo PSD via Edit In, you can open an existing Smart Photo with Edit In. Select the Smart Photo, choose Edit In Sky Swap AI, and choose Edit Original in the window. Sky Swap will open the image with your previous edits intact. Any subsequent edits you make will be saved with the Smart Photo when you return to Lightroom. (Information about the Smart Photo format starts on page 11.)

USING 'PLUG-IN EXTRAS'

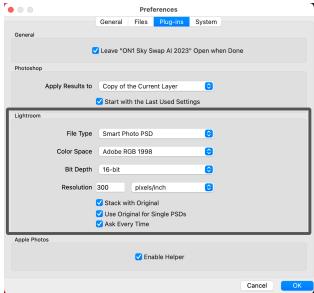
To use the Plug-In Extras option in Sky Swap, select the image in Lightroom, go the File menu and select the Plug-In Extras submenu, and choose ON1 Sky Swap AI 2023 Standalone.



When you access ON1 Sky Swap AI 2023 through Lightroom's Plug-In Extras menu, the default file-handling options are driven by the settings in the Plug-ins tab of Sky Swap AI's Preferences window. These options can be configured in advance, based on your workflow, and can be changed as desired. The file export options include the following settings:

- File Type: This determines what type of file will be created. The default is PSD, which maintains layers, but does not support re-editability. You can also select Smart Photo PSD, JPG or TIFF, if you prefer those formats. One other option, Same as Source, will edit the original file; if that file is in the Raw format, it will be sent as a PSD file.
- Color Space: The color space menu determines which RGB working color space is used; Adobe RGB 1998, sRGB or ProPhoto RGB.
- **Bit Depth**: Sets the exported file's bit depth to either 8 or 16 bits per pixel.
- Resolution: Determines the resolution of the newly created file.
- Stack with Original: When enabled, the new image is stacked with the original image upon return to Lightroom from Sky Swap Al.
- **Use Original for Single PSDs**: When enabled, if you select a single image in PSD format, the original file will be edited, rather than having a copy made.
- Ask Every Time: When checked, Lightroom will present these export copy options whenever you chose an item from the Plug-In Extras submenu. Turning this option off will bypass the file-export window inside Lightroom, using the options set here.

If you have the Ask Every Time option checked, you'll be presented with the Export window (shown on the right) inside Lightroom whenever you send an image to Sky Swap AI. The Export Options window lets you adjust the file format characteristics as needed, and is designed for users with variable workflow needs. If you find that you use the same options every time, then you can set those parameters in Sky Swap AI's Preferences window by unchecking the Ask Every Time option.



When sending a file from Lightroom to Sky Swap AI via Lightroom's Plug-In Extras menu, the edited file will be created according to your settings in the Lightroom section of Plug-ins tab in Sky Swap's Preferences window (highlighted in black, above).



If you have the Ask Every Time option turned on in Sky Swap's Plug-Ins Preferences window, whenever you send an image from Lightroom to Sky Swap, the Export Options window will come up, letting you adjust the export characteristics for that image.

Batch processing options with Plug-In Extras

You can process multiple images for editing in Sky Swap AI via Plug-In Extras. Select the images you wish to work with in Lightroom's Library module and chose Sky Swap AI from Plug-In Extras. Then, the Export Options window will open with three batch options:

- Pause on First Photo: Use this option when you wish to apply the exact same editing operations to a group of photos. This option will open the first selected image inside Sky Swap AI. There, you can perform any editing option inside Sky Swap, including local adjustments. When you have finished with your edits, click Done. Sky Swap AI will then swap the skies in all of the photos using the same sky chosen in the first photo and apply any other edits in each image in the group (along with any cropping), and return you to Lightroom.
- Pause on All Photos: This option lets you able to set the file copy options for the photos in the sequentially edit the images in the batch. Sky Swap

 Al will open each image in the destination tab, where you can edit it as desired. When you are finished editing with one photo, click Done, and Sky Swap Al will save that photo and open the next one, with the previous photo's sky swap settings applied. (You can reset any or all of those settings as desired.) When you have finished editing the last photo in the group, clicking Done will save the image, close Sky Swap Al and return you to Lightroom.



The Batch Options window comes up when you wish to send a group of photos from Lightroom to Sky Swap Al for editing. (If you have the Ask Every Time option set in Sky Swap Al's Preferences, Batch Options will be displayed as a section in the Export Options window, and you will be able to set the file copy options for the photos in the

WORKING WITH SMART PHOTOS

ON1's Smart Photo technology is a variation of the Photoshop file format that has been engineered to preserve all editing operations made within Sky Swap AI: sky replacements, masks, local adjustments, and so forth. Smart Photos can only be created via the Plug-In Extras export method as discussed on page 9, although you can re-edit them via either the Plug-In Extras or the Edit In menu options in Lightroom.

When you choose Smart Photo PSD as an option in the Plug-In Extras submenu from within Lightroom, Sky Swap AI creates a standard Photoshop file with "Smart Photo" at the end of the original file's name. As you work in Sky Swap AI, all of your editing operations are saved in a 'sidecar' file that sits alongside the PSD on disk inside the same folder as your original image. When you are done editing and return to Lightroom, your edited photo will look as it did in Sky Swap AI, but is completely re-editable.

To re-edit a Smart Photo from within Lightroom, select the image, and choose Sky Swap AI from either the Plug-In Extras from the File menu or Edit In from the Photo menu. Depending upon the method chosen and your Sky Swap AI Preferences, the Smart Photo will open automatically, or you will need to select Edit Original from the Lightroom export window.

There are two things to know about with regards to Smart Photos and re-editability:

 Smart Photos have been specifically designed to work as a conduit between Lightroom and Sky Swap AI to preserve re-editability. If you use Sky Swap AI as a standalone app, you can open and view a Smart Photo, and can re-edit the photo in Sky Swap AI; as long as your sidecar file is present, all of your edits will be present. However, when you complete your edits, Sky Swap AI will prompt you to create a new file in any of the available file formats (PSD, PSB, TIFF, JPEG, PNG), and your edits will not be preserved. (The original will remain untouched.)

 If you open a Smart Photo in Adobe Photoshop, the layers will be merged into a single, composite layer. If you make any edits to the photo and save it, re-editability in Sky Swap AI will no longer be available.

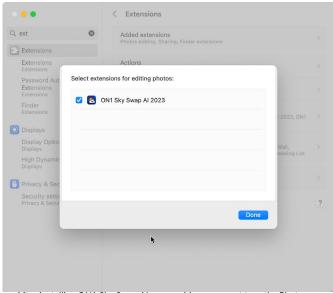
Using ON1 Sky Swap AI with Apple Photos

ON1 Sky Swap AI integrates tightly with Apple Photos for macOS and provides a seamless experience for enhancing your images.

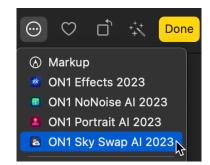
If you have Photos on your computer when you install ON1 Sky Swap AI, the appropriate plug-in will be installed, but you will need to manually activate it in order to use it. To do so, go to Apple's System Preferences and click on the Extensions icon. In the Extensions pane, click on Photos, then check the ON1 Sky Swap AI option. This will let you send images from Apple Photos to Sky Swap AI. (File Sharing must also be turned on in System Preferences for this to work.)

To edit an image in ON1 Sky Swap AI follow these steps:

- 1. Select the image you wish to edit in Photos.
- 2. Click on the Edit button.
- On the right side of the window, right above the editing controls, you'll see an Extensions pop-up (next to the button with the heart icon). Click that button, and choose ON1 Sky Swap Al 2023.
- 4. The photo will open in Sky Swap; make any adjustments you wish, and click the Done button in Sky Swap to save the edited photo and return to Photos.



After installing ON1 Sky Swap AI on your Mac, you must turn the Photos extension on via Apple's Extensions System Preference.



NON-DESTRUCTIVE EDITING WITH APPLE PHOTOS

When you send an image from Apple Photos to Sky Swap, any settings you apply will be saved with the image, so that you can send the image back to Sky Swap with your edits intact, as long as you do not subsequently edit that image inside Photos. To re-edit an image processed inside Sky Swap, click on the image in Photos and follow the same three steps above. When your image is opened inside Sky Swap, you will see all of the changes you made in your previous session.

Once you make any editing changes to your image inside Photos, your Sky Swap edits will be "baked in" to the image. You can send the image again to Sky Swap, but your original settings won't be visible.

If you wish to keep your original Sky Swap edits, duplicate the image inside Photos (Image > Duplicate), which will create a new virtual copy of the file. You can then edit one of the versions in Photos, using the other one to preserve your Sky Swap edits.

Using Sky Swap AI with Corel PaintShop Pro

When you edit an image sent from Corel PaintShop Pro (Windows-only) to ON1 Sky Swap AI, you are editing PaintShop Pro's currently selected layer. To use Sky Swap inside PaintShop Pro, follow these steps:

- 1. Open the image you want to work on in PaintShop Pro.
- 2. Select the layer you want to work on.
- 3. From the Sky Swap Al menu, select PlugIns > ON1 > ON1 Sky Swap Al 2023.
- 4. When you're finished editing your photo, click the Done button in Sky Swap.

PaintShop Pro does not support nondestructive editing with Sky Swap AI; if you would like to work on a copy, before you send the photo to Sky Swap, right-click on the layer in PaintShop Pro and choose Duplicate.

Using Sky Swap AI with Affinity Photo

ON1 Sky Swap AI can be accessed from within Affinity Photo, providing an integrated, round-trip workflow of your images on both macOS and Windows. To use Sky Swap AI as a plug-in to Affinity Photo, you must first activate the plug-in from within Affinity Photo.

ACTIVATING SKY SWAP FOR USE WITH AFFINITY PHOTO (WINDOWS)

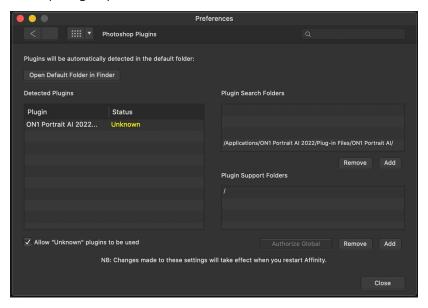
- 1. To setup Sky Swap AI as a plug-in on Windows, go first to Edit > Preferences and click on the Photoshop Plugins icon.
- 2. Check the 'Allow "unknown" plug-ins to be used' box at the bottom of the screen.
- 3. Click on the Add button underneath the Plugin Search Folders area, and navigate to \Program Files\ON1\ON1 Sky Swap AI 2023\Plug-in Files\ON1 Sky Swap AI 2023.plugin. Click OK.
- 4. When you click on the Close button, Affinity Photo will prompt you to restart the app. When you do this, you should now see Sky Swap AI listed in the Detected Plugins section of the Photoshop Plugins preferences.

ACTIVATING SKY SWAP FOR USE WITH AFFINITY PHOTO (MACOS)

Setting Affinity Photo up for macOS has one additional step.

- 1. Go first to Preferences, located in the Affinity Photo menu on the top left. Click on the Photoshop Plugins icon.
- 2. Check the 'Allow "unknown" plug-ins to be used' box at the bottom of the screen.
- 3. Click on the Authorize Global button at the bottom of the window. macOS will present you

- with a dialog box that shows the root folder of your system. Click on the Authorize button in this box.
- 4. Click on the Add button underneath the Plugin Search Folders area, and navigate to Applications/ON1 Sky Swap AI 2023/Plug-in Files/ON1 Sky Swap AI 2023.plugin. Click OK.
- 5. When you click on the Close button, Affinity Photo will prompt you to restart the app. When you do this, you should now see Sky Swap AI listed in the Detected Plugins section of the Photoshop Plugins preferences.



EDITING A PHOTO IN SKY SWAP AI FROM WITHIN AFFINITY PHOTO

When you edit an image sent from Affinity Photo to ON1 Sky Swap AI, you are editing Affinity Photo's currently selected layer. To use Sky Swap inside Affinity Photo, follow these steps:

- 1. Open the image you want to work on in Affinity Photo.
- 2. Select the layer you want to work on.
- 3. From the Sky Swap Al menu, select Filters > Plugins > ON1 > ON1 Sky Swap Al 2023.
- 4. When you're finished editing your photo, click the Done button in Sky Swap.

Affinity Photo does not support nondestructive editing with Sky Swap AI; if you would like to work on a copy, before you send the photo to Sky Swap, right-click on the layer in Affinity Photo and choose Duplicate.

Using Sky Swap AI with Capture One

Similar to Lightroom, Capture One can process either single images or a group of images inside Sky Swap AI, and can export those images in a number of different file formats. When you edit images sent from Capture One to ON1 Sky Swap AI, Capture One creates a variant of each photo for processing in Sky Swap.

To edit a single image inside Capture One:

- 1. In Capture One, open and select the photo you wish to open in Sky Swap.
- 2. From the Image menu, select Image > Edit With > ON1 Sky Swap AI 2023.
- 3. Choose the file characteristics you wish to use in Sky Swap—use DNG for the best results—and click the Edit Variants button to launch ON1 Sky Swap AI.
- 4. When you're finished processing your photo, click the Done button in Sky Swap AI. Your photo will be saved in the selected format and returned to Capture One.

To process multiple images inside Capture One, you select the images you want to work on, and select Image > Edit With > ON1 Sky Swap AI 2023. The export window in Capture One will now have an additional tab at the top, ON1 Batch. There are two options:

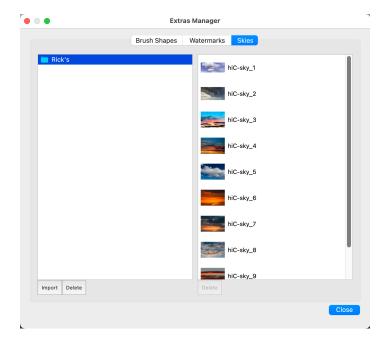
- Pause on First Photo: Use this option when you wish to apply the exact same editing operations to a group of photos. This option will open the first selected image inside Sky Swap. When you have finished with your edits, click Done. Sky Swap will then apply all of the edits using the same sky to each image in the group, and return you to Capture One.
- Pause on All Photos: This option lets you sequentially edit the images in the batch. Sky Swap will open each image in the main window, where you can process it as desired. When you are finished editing with one photo, click Done, and Sky Swap will save that photo and open the next one, with the previous photo's Sky Swap settings applied. (You can reset any or all of those settings as desired.) When you have finished editing the last photo in the group, clicking Done will save the image, close Sky Swap and return you to Capture One.

When using either the single-image or the batch method, after you've returned to Capture One, your processed images will be visible in the current collection.

Extras

ON1 Sky Swap AI 2023 supports three additional file types that can be used within the app. These files, called Extras, include the following:

- Brush shapes, which are generally saved as black-and-white TIF files. Sky Swap can also import custom brushes saved in the Adobe Brush Preset format (.abr). These brushes are can be selected and used while working in the Local Adjustments tab (see page 62).
- Watermarks, image files
 (transparent PNGs) that can be used
 with the Watermark panes in Sky
 Swap Al's Export (page 75) and
 Print windows (page 69).



• **Skies**, replacement skies for use within Sky Swap AI. These skies are automatically added to the Category menu in the Sky Swap pane (see "Inside the Sky Swap AI Pane" on page 24).

To manage these files, choose Manage Extras from the File menu. To import either a preset or a brush shape, click on the label at the top of the window, then click on the Import button in the footer of the left column. A dialog box will appear where you can select the files to import. If you want to import an entire folder, open the folder, select the first file, then shift-click on the last file. Click Import when your selection is complete. Then, select a category for your extras to live, which is where you will be able to find it inside Sky Swap. You can select from an existing category or create a new one.

HOW TO DELETE EXTRAS

You can remove imported extras using the Extras Manager. Follow these steps:

- 1. Open the Extras Manager in any module (File > Manage Extras).
- 2. Click on the extras type that contains the content you wish to remove. This will display categories within that type.
- 3. To delete an entire category, select in the left column and click on the Delete button in the footer of the left column.
- 4. To delete individual extras, select them in the right column and click on the Delete ('—' in the Presets tab) button in the footer of the right column.

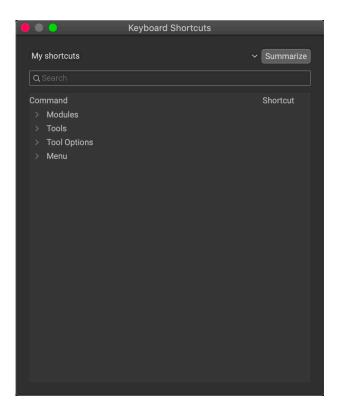
Deleting extras is permanent and cannot be undone.

Customizing Sky Swap's Keyboard Shortcuts

You can customize ON1 Sky Swap AI 2023's hotkeys via the Keyboard Shortcuts window. This window lets you view and change the shortcuts for any tool, tool option, module, or menu item inside Sky Swap AI. You can assign shortcuts to items that don't yet have a shortcut, build multiple sets of shortcuts as preset styles, and create a summary of your shortcuts that can be viewed in any web browser.

To view or change Sky Swap Al's hotkeys, choose Keyboard Shortcuts from the Edit menu. By default, Sky Swap Al's shortcuts will be displayed, organized hierarchically by the following groups:

- Modules, for moving between the Sky and Local tabs.
- Tools, for accessing Sky Swap's tools.
- **Tool Options,** for setting the brush/mask hotkeys for the masking tools.
- Menu, which includes all of Sky Swap Al's menu items.



You open each group by clicking on the triangle to the left of the group name, or you can use the search field at the top of the Keyboard Shortcuts window to search for a command in any of the groups.

NOTE: Some keyboard shortcuts cannot be changed. These include menu commands used by the operating system (Cut, Copy, Paste). Also, you can't use the Escape, Return/Enter, or Delete keys as a shortcut.

Each command that has an assigned key will display that key in the Shortcut column. The Shortcut field will be empty for any command that doesn't have an assigned key, and any field with a grayed-out shortcut means that you cannot modify that command's keys.

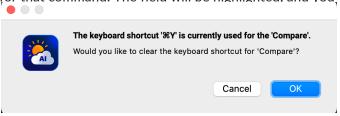
MODIFYING SHORTCUTS

The Default preset style's hotkeys cannot be modified, but you can create your own set of shortcuts by double-clicking on any command you wish to add or change. You'll be asked if you want to create a new preset. Clicking Yes will let you name the new preset style, and Sky Swap Al will make a duplicate of the Default set.



At this point, you can change any existing hotkeys—or add your own shortcuts for commands that don't have them—by double-clicking in the Shortcut field for that command. The field will be highlighted, and you

can press the key or key combination you wish to use. If that key is used by another command, a dialog will come up, informing you of that, and giving you the option of either keeping the existing hotkey/command combination, or changing it to the new command.



When you change a default shortcut to a new key combination—even for commands and options that didn't initially have a shortcut—a Reset arrow will appear to the right of the Shortcut field. Clicking the icon will reset the command to its original state, from the Default preset style.

To delete a shortcut, double-click in the Shortcut field and press the Delete key.

The Summarize button at the top of the Keyboard Shortcuts window will create an HTML table of the current set of hotkeys. You'll be asked where to save the file, and double-clicking on it will open that table in your default web browser, where you can view or print the list.

You can return to the original Sky Swap AI shortcuts by clicking on the pop-up menu at the top of the Keyboard Shortcuts window, and choosing Default from the list of preset styles. That menu can also be used to create a new preset or to delete an existing one that you created. The Default preset cannot be removed, however.

Using Sky Swap AI with a Scroll Wheel

When you are using ON1 Sky Swap AI 2023 with a mouse that has a scroll wheel, there are number of different options available throughout the app, on both Mac and Windows.

Throughout Sky Swap AI, the scroll wheel has the following general options:

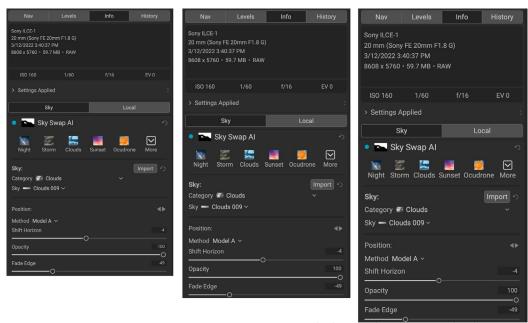
- Using the scroll wheel will pan up and down in the current window. In Browse's Thumbnail view, it will scroll the window. In most other views, using the scroll wheel with the cursor over the preview area will pan the image on screen up and down. Holding the Shift key down and scrolling will pan left or right.
- Hold Option (Mac) or Control (Windows) with the scroll wheel to zoom in or out of an image.

In the Sky and Local tabs, when working with any tool that has a brush size and feather option, press Command-Option (Mac) or Control-Alt (Windows) and scroll to change the brush size. To change the feather, press Option-Shift (Mac) or Alt-Shift (Windows).

NOTE: If you only want the scroll wheel to change brush size, turn on the "Only Adjust Brush Size with Scroll Wheel" option in Sky Swap AI's Preferences window. See "General Settings" on page 86.

Changing Sky Swap Al's Font Size

By default, ON1 Sky Swap AI prioritizes the main workspace to focus on photos, using a small font size to display panel names, labels, file names any other basic text. You can adjust the default font size to one of three settings, Small, Medium or Large, by choosing the General tab of Sky Swap AI's Preferences window. Select the option from the Font Size pop-up, and restart Sky Swap AI to have the effect take place.

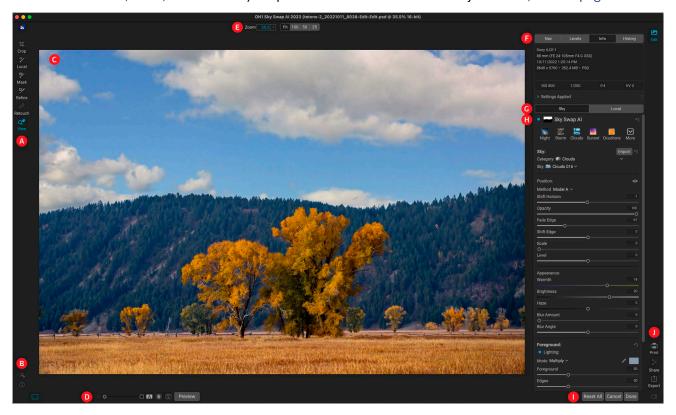


ON1 Sky Swap AI has three options for displaying type in the main workspace, Small (left), Medium (middle), and Large (right). To change the size, go to the General tab of the Preferences window, and pick the new option from the Font Size window. The change will take effect the next time you launch the app.

PART 2: WORKING WITH SKY SWAP AI

ON1 Sky Swap AI consists of two distinct editing functions, separated into tabs:

- **Sky Swap** consists of a single pane that automatically detects the sky in your photo and masks it out. Once the mask has been built, you can select a replacement from one of the over 100 skies installed with the app, or you can or import your own directly from the pane.
- **Local Adjustments** are designed to apply basic, targeted edits to the non-sky portions of your photos, letting you perform traditional photo-editing tasks—like dodging and burning—with ease. You can also use custom brushes and the Paint with Color option to add overlays like clouds, trees, and more to your photos. For more about local adjustments, turn to page 62.



- A. Tool Well: Tools for working within Sky Swap Al.
- B. **Preferences/Help**: Shortcuts to app preferences and help.
- C. **Preview Window**: Displays the current photo in detail view.
- D. **Preview option toggles**: Magnification slider for current image, split-screen before/after mode, show/hide mask, turn soft proofing and full-screen preview on or off.
- E. Tool Options bar: Options and settings for currently selected tool.
- F. **Photo Information pane**: Navigator, Levels, Info and History panel.
- G. Edit tabs: Switches between Sky Swap and Local Adjustment tabs.
- H. Sky Swap Al pane: Controls and options for the currently replaced sky.
- I. Reset bar: Reset All (restores settings to the original state when you opened the photos), Cancel (closes the photo without saving), Done (closes photo, opens a dialog box to let you specify the file name and type of the finished photo).

J. **Output**: Shortcuts for printing or exporting the current photo. (Sharing is visible on macOS only. See page 81.)

Display View Options

In Sky Swap AI, you have three options for viewing the contents of the current window:

- The default is a resizable, movable window.
- **Full Screen Mode**, which can be found in the Window menu, will expand the main window to fit the contents of the current display. The menu bar is hidden, but it can be viewed by moving the mouse cursor to the top of the screen. This mode can be toggled on and off by pressing Option-Control-F (Windows) or Command-Control-F (macOS).
- **Full Screen Preview**, also found in the Window menu, will display the currently selected photo full-screen, without any of the other interface elements. You can use the arrow keys on the keyboard to This option is helpful when you wish to view a selection of photos as large as possible without any distractions.

Sky Swap provides several ways to navigate and view your image in the Preview window:

- By default, your image is presented in Fit view, which displays the image within the preview area, and the Zoom tool is selected. Clicking on the image with the Zoom tool will zoom in to 100%, and the cursor will change to the Hand tool. You can move around your image by clicking and dragging in the preview area. Clicking once will take you back to Fit view.
- You can also zoom in and out via the View menu and the Navigator pane (see below). The
 Navigator pane displays a bounding box around the area currently on-screen, and you can
 reposition what is displayed in the preview area by clicking and dragging the box around the
 pane. Clicking on one of the buttons at the bottom of the Navigator pane will automatically
 zoom to Fit, 100%, 50% or 25% views. (The buttons are also visible in the Zoom tool's
 Options bar.)
- When the preview zoom is larger than the viewable area, holding down the spacebar will
 display the Hand tool if any editing tool is selected. Clicking and dragging while holding the
 spacebar will reposition your image at the current view level.

Navigator, Levels, Info and History Panes

At the top of the control panel on the right of the main window are the Navigator, Histogram, Info and History panes. These tools inspect and view details of your image, as displaying all of the Sky Swap adjustments made during a session.

THE NAVIGATOR PANE

This gives you a thumbnail view of your image. The white square region marks the image area that is visible in the preview pane. You can pan your image by clicking and dragging inside the square.

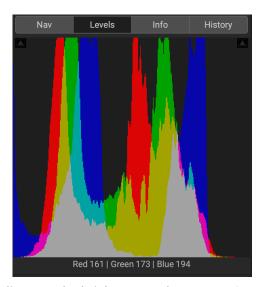
At the bottom of the Navigator pane are several zoom buttons representing percentage zoom views (100%, 50% and 25%). Click on one of the buttons to change the view. Fit zooms to fit the current canvas size, while 100 zooms to 100%, displaying the actual pixels.

NOTE: You can also use your mouse's scroll wheel to pan and zoom inside your photos. See "Using Sky Swap AI with a Scroll Wheel" on page 18 for specifics.

THE LEVELS PANE

This gives you a color chart of the shadow, midtone and highlight areas based on the image RGB values (commonly known as a histogram). This is useful to show areas within the image that may be clipping. Clipping is when your image contains pure blacks or white and can signify loss of highlight or shadow detail.

The left side of the histogram represents the shadows, while the right represents the highlights. At the top of each end is a triangle. If the triangle is lit, there is clipping on that side of the histogram. If you click on the arrows, you will activate the clipping overlay on your image, which displays the areas that are clipped. Those areas with a blue overlay are pure black, while the areas with the red overlay are pure white. You can turn the clipping view off again by clicking on one of the triangles. You can also temporarily enable clipping view by holding down the J



key at any time. The clipping view is useful when you are making adjusts to the brightness and contrast of your image. (See page 59 for more information about using the clipping view.)

The Histogram pane also displays the RGB values under the cursor at the bottom of the pane.

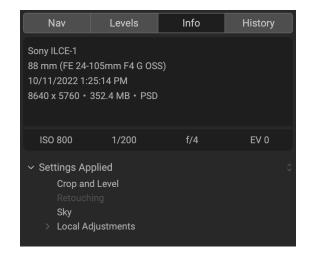
THE INFO PANE

The Info pane displays metadata for the current image in an easy-to-read format. This metadata includes camera make and model; lens focal length; capture date and time; file type; ISO setting; shutter speed; aperture; and exposure compensation.

The pane also displays file-specific data, such as name, color space, image dimensions and resolution. If any of the metadata fields are unavailable they will be left blank.

Settings Applied

At the bottom of the Info pane is a section that shows all of the operations that have been applied to the current image. Clicking on the right arrow to the left of the label



will display a list of every adjustment made, including cropping and retouching. If an image has had any adjustments made to it, that section of the Settings Applied area will be represented in white type, and you can use the arrows to the left of the label to drill down further into the Sky Swap and Local Adjustment tabs to see which adjustments were made to an image.

Double-clicking on any of the available items inside the Settings Applied area will take you to that specific setting inside Sky Swap, where you can make any desired changes.

NOTE: When editing a photo in Sky Swap as a plug-in from Lightroom Classic, Photoshop or other supported apps, the Info pane is not visible.

THE HISTORY PANE

ON1 Sky Swap AI has a robust Undo capability, which is helpful when you wish to back up a few steps during the editing process. When you want to go back further, it can be tedious to keep pressing Command/Control-Z. That's where the history pane can be extremely useful. It displays every adjustment made during an editing session. From the History pane, you can scroll through your edits, all the way back to the state of your photo when you opened it for editing.



As you work, the History pane tracks all of your edits— even when working with layered files—adding each change you make to the top of the pane. History displays not only the adjustment, but will also display the settings of sliders in the various adjustments.

You can scroll through the list, and, if you click on an item, Sky Swap will "roll back" your edits to the spot you clicked. You can click up and down in the list, and, as long as you don't make any changes, the entire edit history is preserved. If you roll back to an edit and make a change, the History pane "resets" from that point on, losing any of the edits you made after the point you rolled back.

The History feature is designed to help you refine and understand the edits you made during an editing session; it not saved once you finish editing a photo.

TIP: If you click on an item in the History pane, and you wish to step up or down in the adjustment history from that point, you can use the Undo/Redo commands to quickly go through the list. If you are happy with your edits, click back on the top item in the History pane to preserve the state of the photo.

Inside the Sky Swap Al Pane

When you open a photo in Sky Swap AI, the app automatically generates a mask of the sky and displays the Sky Swap AI pane, which consists of the following sections:

- A. **Pane controls:** on/off button (left) turns the replacement on or off; Mask view (right) opens the Mask options section for fine-tuning the mask. (See page 55 for more.)
- B. **Reset button:** returns the Sky pane to its original state.
- C. **Styles section:** for choosing a specific preset sky from within one of the categories, or create and apply your own style via the More menu.
- D. **Sky selection area:** includes pop-up menus for the different sky categories, and the skies that are part of the currently selected category.
- E. **Import button:** launches the Extras Manager (see page 16) for importing skies directly into Sky Swap.
- F. **Position:** lets you choose one of two sky swap methods (A or B), shift the horizon line of the new sky; set the opacity of the sky; fade and shift the edge of the mask; scale the size of the new sky to better fit the final image; and apply a leveling adjustment to the new sky.
- G. Appearance: sets the warmth and brightness of the replacement sky, applies dehaze, and lets simulate motion by blurring the clouds and setting the blur angle.
- H. Foreground Lighting: lets you adjust the intensity and color of the light on the foreground.
- Foreground Reflection: when working with images that have bodies of water in the foreground, you can add a reflection, adjusting both the blending mode, the amount (strength) of the reflected sky, and apply a vertical shift.

Sky Swap Al B 2 E Skv: D Sky miC-sky_1 ∨ Position 4 Method Model A ~ Shift Edge Scale G Warmth Н Lighting Mode Multiply Distance Reflection Mode Overlay

SELECTING A SKY FROM THE SKY SECTION

When Sky Swap AI creates the initial mask of the sky, the original sky will continue to be displayed. Use the Category and the Sky menus to apply a sky to the masked area. As you mouse over the different skies in a category, Sky Swap AI will show a preview of that sky on your photo. Click on the sky you want, and it will be applied. To change your selection, choose a new category (if desired) and sky.

THE POSITION SLIDERS

After you've chosen your sky from the Category and Sky pop-up menus, use the Position section to adjust the placement and the blending of the new sky. You can flip the sky horizontally—which can be helpful when you wish to change the direction of the light in the sky to match the foreground—by clicking on the triangles to the right of the Position label. The Shift Horizon slider will move the imported sky up or down inside the masked area, while the Fade Edge and Shift Edge sliders can be used to blend the new sky more realistically with the foreground. The Opacity slider will default to 100, which means that none of the original sky will show through, but you can lower the opacity to blend the new sky into the image as well.

The Scale slider will enlarge the new sky's size inside the mask, which you might do because you want to add some drama with larger clouds, or want to emphasize a specific group of clouds, or because the size of the size of imported sky doesn't quite meet the boundaries of your original image.

Method setting

Sky Swap has two types of algorithms that it uses to select skies, Method A and B. For most photos, the default option, Method A, will offer the best results, but you might find that there are some instances where that option gives you less than optimal results. In those situations, try Method B; Sky Swap will reanalyze the scene and will create a new mask.

THE APPEARANCE SLIDERS

The sliders in the Appearance section adjust the look of the replacement sky to help better match the sky with the existing foreground, and their purpose is straightforward. The Warmth slider lets you apply a warmer or cooler look to the new sky, while Brightness adjusts the luminance of the sky, making it brighter or darker. Moving the Haze slider to the left removes haze or fog from the sky (by adding contrast), while moving it right will enhance it.

The Blur Amount and Blur Angle sliders let you apply a motion-blur-style effect to the clouds in the replacement sky, to simulate a long exposure.

THE FOREGROUND SLIDERS

As the name of the section implies, the Foreground Lighting and Reflection sliders apply their settings to the foreground and help further blend the new sky realistically into the scene. To turn on one of the groups, click the on/off button to the left of the Lighting and Reflection labels.

The Lighting sliders attempt to apply some of the color of the light in the replacement sky to the foreground. By default, when you turn the Lighting section on, Sky Swap will



The Reflection option is designed to add a reflection of your replacement sky to water in the foreground (shown on the right above in split-screen preview mode)

automatically sample a color from the sky and apply a slight color fill effect to the foreground. If you'd like to change the color, click on the eyedropper icon next to the color patch, and choose another. The Amount slider sets the intensity of the light, while the Distance slider adjusts the effect to fill more or less of the entire foreground, almost like a gradient.

There are two blend mode options you can use when adjusting the lighting: Multiply and Screen. Multiply will darken the lighting effect, while Screen will lighten it.

The Reflection group is designed for those times when you have a body of water in the foreground, and wish to blend in a slight reflection of the sky into the foreground.

This option includes a few more of Sky Swap's blending modes, and you'll find that different modes work better than others, depending upon the scene. (See page 57 for more information on the various blending modes used in Sky Swap and their usage.

The Amount slider adjusts the intensity of the reflection, while the Shift Vertical slider works in a manner similar to the Shift Horizon slider does in the Position section of the Sky Swap pane: it moves the reflection of the replacement sky up or down across the foreground area.

Generating Realistic Sky Replacements

Adding a new sky to an image is easy, but getting a sky that looks like it belongs in the image is another thing. Here are a few tips for creating realistic-looking sky replacements:

- Quite often, the biggest issue in replacing a sky is matching light, whether it be the direction
 of the light cast by the sun, or the time of day. As you work through the list of skies looking
 for a replacement, ask yourself if the movement of light makes sense in the blended pair.
 Sometimes, you can use the Flip Horizontal toggle in the Position section of the Sky Swap
 pane to fix a directional issue; other times, the potential replacement sky, as much as you
 wish it to work, will just look out of place. (See the illustration on page 27 for more.)
- It will be rare that you pop a sky into an image and that it works perfectly. If the light does seem to fit, play with the controls in the Position, Appearance, and Foreground sections to get a better sense of how the sky works in the scene.
- As you play with different skies and are trying to get a sense of how one works better than another, make use of Sky Swap's Undo capability; better yet, work with the History pane (see page 23) to jump back and forth between different places during your editing session.
- Don't forget to pay attention to the mask. While the Sky Swap AI technology is excellent,
 it won't be perfect in every instance. Use Sky Swap's masking tools to refine and adjust the
 mask in places where your sky might intrude into the foreground or vice versa. And, when
 working with other mask tools, adjusting the Fade Edges slider can often help refine your sky
 mask.
- Copy the sky mask and use it in your local adjustments. You can't apply a local adjustment to the masked sky, but you can use the inverted sky mask in a local adjustment pane. Copy the mask from the Sky Swap AI pane by choosing Copy Mask from the Mask menu, then open the Local pane, and choose Paste Mask from the Mask menu, and then Invert Mask from the same menu. Once you do that, the pane's settings will only be applied to the foreground. You can copy, paste and invert the mask as many times as you'd like.

NOTE: Detailed discussion regarding the masking and mask-refinement tools starts on page 32. More information on how Sky Swap's masking options operate, see page 55

• Shoot your own skies and import them via the Extras Manager. When you're out and see a gorgeous sky, photograph it with as much of the sky as you can catch. Because you'll have shot the sky, you'll have a better idea of the lighting direction and time of day, which will be quite helpful when you are trying to match a sky.



Paying attention to light, and its direction, is one of the keys to getting realistic-looking sky replacements. As pretty as the as the sunset sky is (top left), the direction of the light in the foreground (from behind and to the left) is all wrong for the sunset. The sky on the top right is a bit better fit, but the light is coming from the right, clashing with the foreground. Flipping that sky (bottom left) feels more integrated, but it still feels dark for the scene, even when adjusting the Brightness slider. Choosing a sky taken at roughly the same time of day (bottom right) feels more harmonious with the foreground, and, with a little bit of adjustment, ends up looking fairly realistic.

The Tool Well

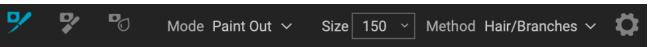
Sky Swap has 16 tools available for you when you are working on a photo, and are accessible via the Tool Well on the left side of the screen. Most of the tools are nested within the Local, Mask, Refine and Retouch groups, while the Crop and View tools are self-contained within the tool icons. A description of the tools and their keyboard shortcuts follows:

- Crop Tool: Trims an image to your desired size or ratio. Shortcut key: C
- Adjustment Brush (Local group): Paints in or out local adjustments. Shortcut key: Shift+K
- Adjustable Gradient (Local group): Applies a selective gradient in local adjustment mode. Shortcut key: Option+K
- Masking Brush (Mask group): Mask large similar areas quickly. (Includes Perfect Brush option.) Shortcut key: B
- Masking Bug (Mask group): Applies a selective gradient as a mask. Shortcut key: M
- Al Quick Mask Tool (Mask group): Generates masks by clicking on regions in a photo. *Shortcut key: W*
- Original Quick Mask Tool (Mask group): Create high-quality masks with only a few strokes as guidance. Shortcut key: Command-Option-Shift W (Mac); Control-alt-Shift W (Windows)
- Line Mask Tool (Mask group): Create masks using straight lines, with the capability to add curves and adjust mask points on the fly. Shortcut key: Shift-P
- **Refine Brush (Refine group):** Lets you refine an existing mask's edges, to help mask difficult areas, such as hair. *Shortcut key: N*
- Chisel Tool (Refine group): Removes fringes from the edge of a mask. Shortcut key: Shift-H
- Blur Tool (Refine group): Blurs the edges of a masked area to help it blend more naturally. Shortcut key: L
- **Healing Brush (Retouch group):** Paint over a distraction and a matching area of your photo is magically blended on top to replace it. *Shortcut key: Q*
- **Perfect Eraser (Retouch group):** Removes distractions like signs and power lines. *Shortcut key: Shift-Q*
- Retouch Brush (Retouch group): Removes blemishes like dust spots and acne. (Includes Perfect Brush option.) Shortcut key: R
- Clone Stamp (Retouch group): Paints over an area from a sample of another area. Shortcut key: Shift-S
- **View Tool:** Adjusts the magnification of the image in the Preview area, and lets you move around the Preview window. *Shortcut key: Z*



ACCESSING AND USING TOOLS

To access a tool, click on the tool or use the shortcut key. When selected, the cursor will change, and you will see a set of options for the tool in the Tool Options bar above the Preview window. If the selected tool is part of a tool group, you will see the other tools in that group, on the left side of the Tool Options bar.



Each tool in has an Options Bar, where you can adjust the settings for that tool. Shown here are the options for the Refine Brush.

ADJUSTING TOOL SIZING PARAMETERS

When using any of the tools that have Size and Feather options, you have multiple ways to adjust those parameters:

- In the Options Bar for each of those tools, you can use the slider in the Size and Feather fields to increase or decrease the amount.
- You can use the left and right bracket keys on your keyboard '['and '] '— to adjust the size; additionally, hold down the Shift key to adjust the feather.
- You can also use your mouse's scroll wheel. Press Command-Option (Mac) or Control-Alt (Windows) and scroll to change the brush size. To change the feather, press Option-Shift (Mac) or Alt-Shift (Windows).
- You can also use your pressure-sensitive tablet, if you have one. Settings to turn that option on will be found in the Tool Options bar's Gear menu for the tool.

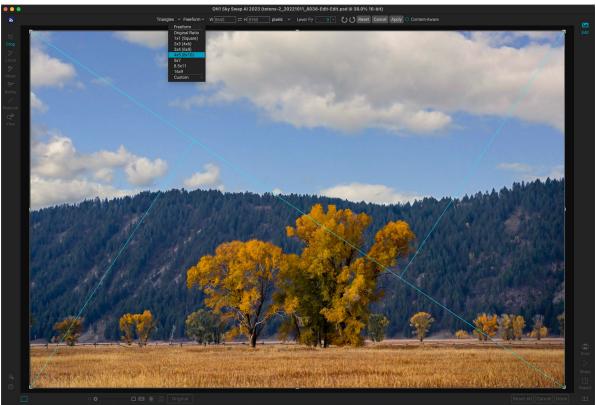
NOTE: More information about the different ways that you can use your mouse's scroll wheel can be found on page 18.

CROP TOOL



This tool lets you crop your image, and is fully non-destructive in Sky Swap. The tool also has a content-aware option that lets you expand the photo canvas, filling the edges of a photo's frame with realistic detail.

To crop an image, select the Crop tool, which will display the crop overlay. Select any preset crop ratio you would like to use from the Options bar. The default is Freeform, which lets you crop in whatever size or ratio you would like. Choosing a preset size (like 4x6) will display the crop overlay at that chosen aspect ratio.



The Crop interface, with the Crop Preset pop-up open

Adjust the corner handles of the crop overlay to get the area you wish. (The area outside the crop box appears darkened for guidance.) You can resize and move the image inside the crop box. When you are satisfied with your settings, press the Apply button in the Options bar or press Enter.

To move the image inside the crop box, simply click and drag inside the box. You can also nudge the image using the arrow keys on your keyboard. To resize the crop box, click and drag on any of the handles. Clicking on a corner handle allows you to adjust two sides at the same time; clicking on a side handle allows you to adjust that side. If you hold the Shift key down while adjusting the size, the box's proportions are maintained. To rotate the crop box, move outside a corner until the tool changes to rotate.

To straighten an image, you can use the Leveling Tool, which is found in the Tool Options bar when the Crop Tool is active. Click on it, and drag the tool across an element in your image that should be level.

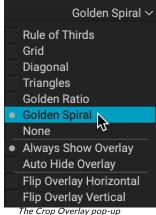
Crop overlays

When you select the Crop tool, Sky Swap AI has the option to display guidelines as an overlay on top of

your photo. These overlays can be used as compositional aids for cropping. Sky Swap AI includes a number of overlays that you can display during a crop session, and they can be accessed from the overlay pop-up menu in the Tool Options bar when the Crop tool is active. There are seven options — Rule of Thirds, Grid, Diagonal, Triangles, Golden Ratio, Golden Spiral, and None — and you can easily go back and forth between them as desired while cropping.

In addition to overlay type, there are two other sets of options in the menu:

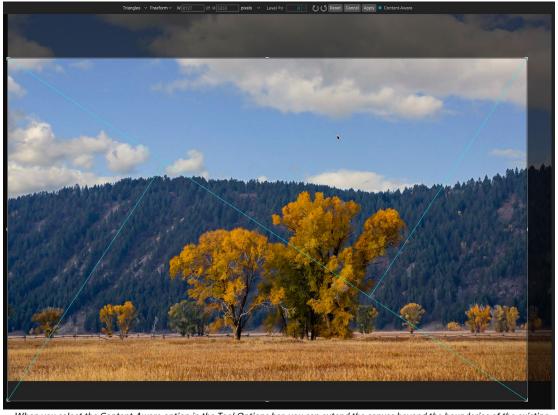
- You can choose to have the overlay displayed all the time during a crop session, or to have Sky Swap AI only display the overlay when your cursor is in the preview area of the workspace.
- When working with the Triangles or the Golden Spiral overlays, the Flip Overlay options will be visible, letting you flip the orientation of the overlays horizontally (Golden Spiral only) or vertically (Golden Spiral and Triangles).



includes seven options for setting and displaying overlays.

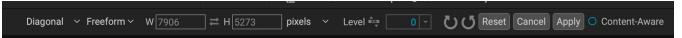
Content-aware cropping

The content-aware feature lets you extend the crop beyond the edges of the frame. To use this, click the Content-Aware option in the Tool Options bar, and move the crop handle past the desired edge. When you click Apply, Photo RAW will fill the expanded area with detail based on the content along the existing edge.



When you select the Content-Aware option in the Tool Options bar, you can extend the canvas beyond the boundaries of the existing photo. Clicking Apply will fill the area based on the characteristics of the edges in the photo.

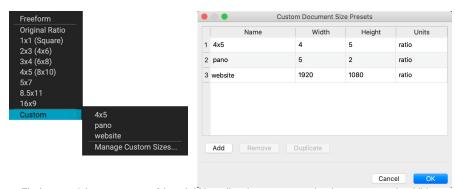
Crop Tool Options Bar:



- Overlay pop-up: Selects a crop overlay, sets overlay visibility, and flips the overlay.
- **Preset pop-up**: Lets you choose from Freeform, constrained or custom preset ratios.
- Width: Sets the width of the crop box.
- **Swap Dimensions**: Swaps the width and height. Handy for rotating the crop box.
- **Height**: Sets the height of the crop box.
- Leveling Tool: Click and drag this tool across an element in your image that should be level.
- Angle: See and adjust the angle of rotation.
- Rotation tools: Rotates the photo 90° clockwise or counterclockwise.
- **Reset**: Resets the crop area to the size of your original photo.
- **Cancel:** Cancels the crop application and returns you to where you previously were in the Edit module.
- Apply: Applies the crop.
- **Content-Aware:** When clicked, will expand the canvas size, filling the edges of the photo with new detail, based on the area next to the expanded space.

Creating custom crop sizes

In addition to the preset crop ratios provided, you can create your own custom crop sizes. The bottom of the crop preset pop-up menu has a Custom submenu, which lists all of your custom ratios. To add a size, choose Manage Custom Sizes from the submenu. To add a new ratio, click the Add button, then enter a name, and the width and height ratio you



The bottom of the preset pop-up (above left) has a list of custom crop ratios that you can use in addition to the preset ratios. You can create your own presets via the Manage Custom Sizes submenu option, which opens the Custom Document Size Presets window (above right).

wish to create (the units will always be "ratio" when you create a custom preset for the Crop tool). You can add as many as you'd like and click OK. The new crop ratios will appear in the Custom submenu.

ADJUSTMENT BRUSH (LOCAL GROUP)



The Adjustment Brush, which is used within the Local Adjustments tab, works like a standard masking brush tool, with adjustable sizes, feathering and opacity. You can paint an adjustment in or out via the Mode pop-up in the Tool Options bar, and adjust the size and feathering of the brush via the bar or with the bracket keys on your keyboard. The Adjustment Brush is especially powerful when used with the Perfect Brush option, at the right of the Options bar.

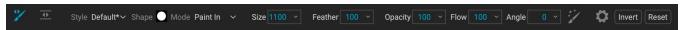
The Perfect Brush incorporates a color-based, self-masking technology to help create precise selections and masks. When you turn the Perfect Brush option on, the Adjustment Brush collects the colors under the center of the brush and applies the effect only to those colors. This protects the adjustment from being applied across edges. A great of example of using the Perfect Brush would be if you wanted to darken the sky in an image, but didn't want to darken a group of mountains on the horizon.



TIP: You can turn the Perfect Brush on and off using the Command-R keyboard shortcut (Control-R on Windows). You can also temporarily lock the color to remove by holding down the Control key (Windows) or the Command key (Mac). This is useful when brushing through areas with a lot of openings like tree branches.

Sky Swap AI lets you mask with custom brush shapes when you are using the Adjustment Brush. When you use a custom brush on an adjustment layer, in conjunction with that layer's Paint with Color option, you can add overlays and other embellishments. When used with custom brushes, the Manual Spacing option lets you control the distribution of the strokes as you brush.

Adjustment Brush Tool Options



- Style: The Style pop-up lets you save brush information to use at another time. Selecting a saved item from the menu will open that saved brush's characteristics.
- Shape: The Shape menu displays a list of all custom brush shapes in your library. The top item in the list is the default, round brush.
- Paint Mode: The paint mode controls if you are painting out (hiding the effect) or painting in (restoring the effect). You can tell your current mode by looking at the plus or minus icon in the center of the brush. If the icon is minus, you are painting out, and if the icon is a plus, you are painting in. You can change the mode in the Tool Options bar, or by pressing the X key, or by holding down the Option (Mac) or Alt (Windows) key temporarily.
- Brush Size: You can control the size of the brush using the Size pop-up. Use a small brush at high magnification for precise work, and a large brush at fit to screen for general work.
- Feather: You control the amount of feathering—or hardness—of the brush by using the Feather pop-up in the Tool Options bar. The feather has a range from 1 to 100 percent. Use a small feather at high magnification for precise, hard-edged work and a large, soft-edged brush in Fit to screen mode for general work. You can visually see your feather by watching the outer concentric circle of the brush tool. In addition to the Feather pop-up, you can adjust the size of the feather by holding down the Shift key and pressing the right or left bracket keys.
- **Opacity**: You can control the opacity, or transparency of the brush color, with the Opacity pop-up in the Tool Options bar. The opacity has a range from 1 to 100 percent. You use a high opacity to paint quickly and hide large areas. You use a lower opacity for blending areas together or for subtle work. You can control the opacity in two other ways:
 - Press Option (Mac) or Alt (Windows) key on your keyboard and one of the number keys. Each number represents an opacity percentage from 10% (1) to 100% (0).

• Use your pressure-sensitive tablet.

TIP: Opacity is really the shade of gray being painted onto the mask. White represents 100% of an effect showing and black represents no effect showing.

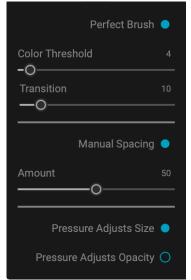
- **Flow:** This is the rate at which the brush color is applied, up to the Opacity setting. With a low flow number, as you brush back and forth across a stroke, the brush color will build up to the Opacity setting. At a flow of 100, the brush stroke color will be at the Opacity setting.
- Angle: This sets the angle of the current brush shape. For the default, round brush shape, this setting has no effect; it is more useful when working with custom brush shapes. You can also rotate the brush shape by pressing Shift-Option (Mac) or Shift-Control (Windows) and the left or right bracket keys ('[' or ']').

• **Perfect Brush**: The Perfect Brush incorporates an automatic edge-detection technology to help create precise selections and masks. When you turn the option on—by clicking on the

Perfect Brush icon in the Options bar—the Masking Brush collects the colors under the center of the brush and applies the effect only to those colors. This protects the adjustment from being applied across edges, such as tree branches.

Further settings for the Perfect Brush can be found by clicking on the gear icon in the Tool Options bar. It has these options:

- Color Threshold: This option lets you control the balance between keep and drop colors, based on the area you are working on. For example, you may want the Perfect Brush to be very precise and only paint away very similar colors, while at other times you want it to paint away a broad range of colors in the same neighborhood.
- Transition: This slider controls the feather of the Perfect Brush based on color. To create a soft edge, increase the transition. To create a harder edge, decrease the transition amount.



Perfect Brush, spacing and Wacom tablet options can be found in the gear menu drop-down.

- Manual Spacing: When checked, this sets the spacing of the brush tip as you apply a stroke. This is primarily used when painting with custom brushes, and is generally not applicable inside Sky Swap AI.
- Pressure options: Sky Swap AI supports pressure-sensitive tablets with the Masking
 Brush. You can enable pressure sensitive controls for the brush size, brush opacity, or both
 simultaneously. To turn this support on, click on the gear icon in the Tool Options bar. You
 can activate pressure sensitivity for both size and opacity by clicking the appropriate buttons
 in the drop-down menu.

Detailed information on using Local Adjustments in ON1 Sky Swap Al 2023 starts on page 62.

ADJUSTABLE GRADIENT TOOL (LOCAL GROUP)



The Gradient Adjustment tool lets you create a linear or radial gradient mask across part of your image, The gradient mask goes from dark to light in tone, applying more of the adjustment where the gradient is lighter, and less of the adjustment where the gradient's tone is dark. The most common use of gradient masks is to darken the sky in an image, while preserving the

brightness of the foreground, similar to using a gradient filter on your camera lens.

To apply a standard gradient to a local adjustment, click on the tool, then click in the image roughly where you wish the effect to be. You'll see the outline of the gradient, which is called a bug. You can use the handles on the bug to move your gradient, increase or decrease the length of the gradient, or rotate it.

You can change the gradient shape via the Tool Options bar: in addition to the standard dark-to-light horizontal gradient, you can also create a circular gradient and a reflected gradient, which is like the horizontal gradient, but goes from black (no effect) at the outer edges to white (full effect) in the center.

Adjustable Gradient Tool Options Bar:



- **Preset**: The preset pop-up includes six settings for the Adjustable Gradient tool (top down, bottom up, left and right, and circular vignettes), and changes the current bug (if there is one) to match the preset.
- **Shape**: The shape pop-up controls the shape of the bug. In addition to the standard Gradient and the Reflected Gradient, there are two radial shapes: Center, which puts the light tones at the center and the dark tones on the outside of the mask, and Edges, which sets the gradient in the opposite direction.
- None

 Vignette

 Strong Vignette

 Linear Top

 Linear Bottom

 Linear Right

 The Preset (left) and the Shape (right) options for the

Adjustable Gradient tool.

- Opacity: Sets the maximum opacity or density of the mask.
- **Color Range:** When enabled, this detects the color under the gradient and applies the mask to only that color range. The higher the number, the wider the range of color that is selected.
- Add: Adds a new gradient using the current settings.
- **Delete**: Deletes the current gradient.
- **Reset**: Resets the mask on the layer completely. This removes all gradients and clears any brushing that has been done.

Manipulating gradient masks

Once you've added a gradient to an image, you can modify it by accessing the parts of the gradient overlay:

- To move a gradient, click on the big circle at the center of the gradient and drag.
- To resize a radial gradient, click and drag on the solid line.
- To adjust the feather (hardness) of the mask, click and drag along the dashed line.

• To rotate the mask, click the smaller circle near the gradient center and drag.

Detailed information on using Local Adjustments in Sky Swap AI starts on page 62.

MASKING BRUSH (MASK GROUP)



The Masking Brush is identical to the Adjustment Brush (see page 55). When you select the Masking Brush, your cursor changes to look like two concentric circles, one representing the inner hard edge of the brush, and soft outer, feathered edge of the brush. At the center of the brush is either a plus or minus. The plus means that you are painting "in" a filter's effect, while minus means the brush mode is set to paint out.

Masking Brush Tool Options



- Style: The Style pop-up lets you save brush information to use at another time. Selecting a saved item from the menu will open that saved brush's characteristics.
- Shape: The Shape menu displays a list of all custom brush shapes in your library. The top item in the list is the default, round brush.
- Paint Mode: The paint mode controls if you are painting out (hiding the effect) or painting in (restoring the effect). You can tell your current mode by looking at the plus or minus icon in the center of the brush. If the icon is minus, you are painting out, and if the icon is a plus, you are painting in. You can change the mode in the Tool Options bar, or by pressing the X key, or by holding down the option (alt) key temporarily.

NOTE: If you would like to invert the mask (turn it from black to white), in order to paint a filter's effect into your image, select the Masking Brush tool, then choose Invert Mask from the Mask menu.

- Brush Size: You can control the size of the brush using the Size pop-up. Use a small brush at high magnification for precise work, and a large brush at fit to screen for general work.
- **Feather:** You control the amount of feathering—or hardness—of the brush by using the Feather pop-up in the Tool Options bar. The feather has a range from 1 to 100 percent. Use a small feather at high magnification for precise, hard-edged work and a large, soft-edged brush in Fit to screen mode for general work. You can visually see your feather by watching the outer concentric circle of the brush tool. In addition to the Feather pop-up, you can adjust the size of the feather by holding down the Shift key and press the right or left bracket keys.
- Opacity: You can control the opacity, or strength of the brush with the Opacity pop-up in the Tool Options bar. The opacity has a range from 1 to 100 percent. You use a high opacity to paint quickly and hide large areas. You use a lower opacity for blending areas together or for subtle work. You can control the size of the brush several ways:
 - Use the Opacity pop-up in the Tool Options bar.







There will be times when Sky Swap's automatic mask selection doesn't work as well as you'd like, as shown in the photo at the top (displaying the masked areas as a red overlay). You can easily use the Masking Brush to paint out some of the masked areas, refining your mask easily (middle photo). The final version, without the overlay, is shown in the bottom photo.

- Press the option (MacOS) or alt (Windows) key on your keyboard and press one of the number keys. Each number represents an opacity percentage from 10% (1) to 90% (9);
 O represents no opacity.
- Use your pressure-sensitive tablet.

TIP: Think of the opacity as the shade of gray you are painting onto your mask. While white in a mask represents 100% of an effect showing and black represents no effect showing, all opacity settings in between will show a percentage of the effect. This can be very useful when you wish to blend masks in a realistic manner.

- **Flow:** This is the rate at which the brush is applied, up to the Opacity setting. With a low flow number, as you brush back and forth across a stroke, the brush color will build up to the Opacity setting. At a flow of 100, the brush stroke will be applied at the Opacity setting.
- Angle: Sets the angle of the current brush shape. For the default, round brush, this has no effect; it solely for working with custom brushes. You can rotate the brush shape by pressing Shift-Option (Mac) or Shift-Control (Windows) and the left or right bracket keys ('[' or ']').

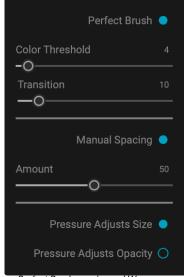
Clicking the gear icon at the left of the Tool Options bar gives you options for the Perfect Brush, brush spacing and support for pressure-sensitive tablets:

 Perfect Brush: The Perfect Brush incorporates an automatic edge-detection technology to help create precise selections and masks. When you turn the option on—by clicking on the Perfect Brush icon in the Options bar—the Masking Brush collects the colors under the center of the brush and applies the effect only to those colors. This protects the adjustment from being applied across edges, such as tree branches.

Further settings for the Perfect Brush can be found by clicking on the gear icon in the Tool Options bar. It has these options:

- Color Threshold: This option lets you control the balance between keep and drop colors, based on the area you are working on. For example, you may want the Perfect Brush to be very precise and only paint away very similar colors, while at other times you want it to paint away a broad range of colors in the same neighborhood.
- **Transition**: This slider controls the feather of the Perfect

 Brush based on color. To create a soft edge, increase the transition. To create a harder edge, decrease the transition amount.



Perfect Brush, spacing and Wacom tablet options can be found in the gear menu drop-down.

TIP: You can toggle the Perfect Brush using Command–R (MacOS) or Control-R (Windows). You can also temporarily lock the color to remove by holding down the Command (Mac) or Control (Windows) key. This can be useful when brushing through areas with a lot of openings, like tree branches.

- Manual Spacing: When checked, this sets the spacing of the brush tip as you apply a stroke. This is primarily used when painting with custom brushes.
- Pressure options: Sky Swap supports pressure-sensitive tablets with the Masking Brush. You can enable controls for the brush size, brush opacity, or both simultaneously. To turn this on, click the gear icon in the Tool Options bar. You can activate pressure sensitivity for size and opacity by clicking the appropriate options in the drop-down menu.

Detailed information on using Local Adjustments in ON1 Sky Swap 2023 starts on page 62. There is also a short section, "Masking Basics" on page 54, that includes best practices for using the different masking tools in Sky Swap.

MASKING BUG (MASK GROUP)

The Masking Bug is used for blending layers by creating radial, gradient and reflected gradient mask shapes quickly. It is identical to the Adjustable Gradient tool in the Local Adjustments pane. The mask goes from dark to light in tone, applying more of the adjustment where the gradient is lighter, and less of the adjustment where the gradient's tone is dark. The most common use of gradient masks is to darken the sky in an image, while preserving the brightness of the foreground, similar to using a gradient filter on your camera lens.

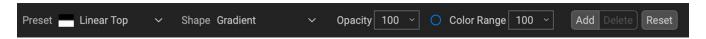
To apply a standard gradient to a filter, click the Masking Bug, then click in the image roughly where you wish the gradient to go. You'll see the outline of the gradient, which is called a bug. You can use the handles on the bug to move your gradient around, increase or decrease the length of the gradient, or rotate it.

You can change the gradient shape via the Tool Options bar: in addition to the standard dark-to-light horizontal gradient, you can also create a circular gradient and a reflected gradient, which is like the horizontal gradient, but goes from black (no effect) at the outer edges to white (full effect) in the center.

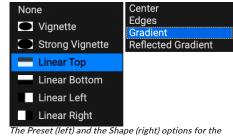


In this image, a Dynamic Contrast filter has been applied in Sky Swap. To keep the effect out of the clouds, a Masking Bug has been added.

Masking Bug Tool Options Bar:



- Preset: The preset pop-up includes several common ways to use the tool (linear top down, linear bottom up, left and right, and circular vignettes), and changes the current bug (if there is one) to match the preset.
- **Shape**: The shape pop-up controls the shape of the bug. In addition to the standard Gradient and the Reflected Gradient, there are two radial shapes: Center, which puts the light tones at the center and the dark tones on the outside of the mask, and Edges, which sets the gradient in the opposite direction.
- Opacity: Sets the opacity, or density, of the mask.



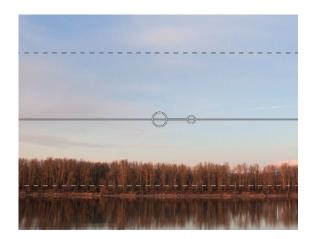
Adjustable Gradient tool.

- Add: Adds a new gradient using the current settings.
- **Delete**: Deletes the current gradient.
- **Reset**: Resets the mask on the layer completely. This removes all gradients and clears any brushing that has been done.

Manipulating a Gradient Mask

Once you've added a gradient to an image, you can modify it easily by accessing the following parts of the gradient overlay:

- To move a gradient, click on the large circle at the center of the gradient and drag.
- To resize a radial gradient, click and drag on the solid line.
- To adjust the feather (or hardness) of the mask, click and drag along the dashed line.
- To rotate the mask, click on the smaller circle near the center of the gradient and drag.



TIP: To see the mask created by the Masking Bug, and the range of black to white tonality, choose Show Mask from the View menu. You can choose either a red overlay, which presents the mask over your image, or grayscale, which just shows the mask as black to white tones.

Working with Multiple Masking Bugs

You can have up to six Masking Bugs per layer. Each bug is re-editable when you're using Sky Swap as a standalone app, or when you use Smart Object option from within Photoshop (see page 7 for more).

To add another Masking Bug, press the Add button or click outside of the current bug while the Masking Bug tool is selected.

Only one Masking Bug may be adjusted at a time. You will see the overlay controls for the active bug while your mouse is over the preview area. Inactive bugs are marked with a small circle; to select an inactive bug clicking on this small circle marker.

Masking Bugs are subtractive. Each bug hides more and more of the current layer. When Masking Bugs overlay each other they may hide more of the layer too. You can always use the Masking Brush to override and paint areas back in hidden by the Masking Bugs.

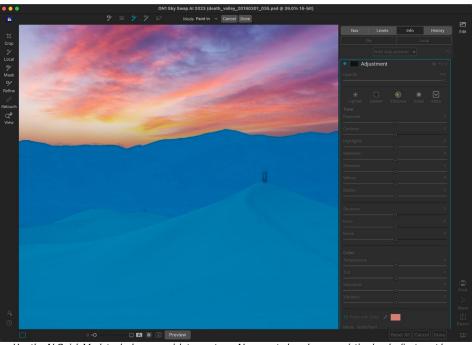
AI QUICK MASK TOOL (MASK GROUP)

The Al Quick Mask tool is intended to create selections for the current local adjustment — all it does it create a mask for that item.

To use the Quick Mask tool, first create a local adjustment layer in the Local tab. Select the Al Quick Mask tool, and move your cursor over the photo. As you move around the photo, Sky Swap will display the various regions in your photo as red overlays; clicking on a region will create a selection and change the overlay for that area from red to blue. If there are additional regions you wish to select, hover over the new area and click. To remove a selection, click on it a second time.

The Mode menu in the Al Quick Mask Options bar has two options: Paint In or Paint Out. Paint In will apply the final adjustment to the selection created, while Paint Out will apply the adjustment to the areas to the inverse of the selection (i.e. the areas that have not been selected).

While the masks created by the Quick Mask tool are generated automatically, they function like any other mask. This means you can use the other masking

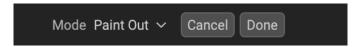


Use the AI Quick Mask tool when you wish to create an AI-generated mask on an existing local adjustment layer,.

tools to adjust and refine the finished masks. This also includes the Mask Control options found in local adjustment panes (see page 62).

NOTE: The AI Quick Mask tool cannot be used in the Sky tab to select the sky. It is intended to be used on areas apart from the sky in the Local tab only. If you wish to adjust your sky mask, use the Masking Brush to paint areas in or out.

Al Quick Mask Tool Options bar



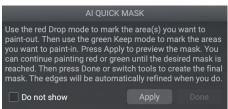
• **Mode:** Sets the masking mode for selections. Paint In means that the local adjustment or filter will be applied to the selection; Paint Out means that the adjustment or filter will be applied to all areas in a photo except for the selection.

- Cancel: Cancels the operation, deselecting the tool and selecting the Zoom tool.
- **Done:** Creates the mask for the current filter, adjustment or layer and selects the Refine brush.

ORIGINAL QUICK MASK TOOL (MASK GROUP)

The Original Quick Mask tool can create high-quality masks with just a few strokes as guidance. To use it, just mark areas you want to keep in green and areas you want to drop in red. When you click Apply, the Original

Quick Mask tool analyses the color, tone and texture of the marked regions to learn what you want to make out and then automatically finds the edges and creates the mask for you.



When you first open the Al Quick Mask tool, you'll see a window—called the HUD—that includes instructions for using the tool.

NOTE: Like the Quick Mask AI tool, the Original Quick Mask tool cannot be used in the Sky tab to select the sky. It is intended to be used on areas apart from the sky in the Local tab only.

Here are the steps you need to follow to use the Original Quick Mask Tool:

1. First, you need to give the tool guidance as to what you want to keep and drop. This is done by loosely painting over the regions in your photo. There is no need to precisely paint the entire photo: just a few representative strokes of red and green are all that are needed. Paint with Drop mode—which is the default brushing mode—over the portions of your image that you want to remove. These brushstrokes will appear in red. Then change the tool's mode to Keep (via the Tool Options bar, or by holding the Option/Alt key) and paint over the areas you want to keep. These strokes will show up as green.

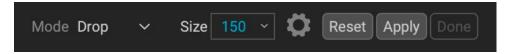


- 2. Now press the Apply button in either the Tool Options bar or the Original Quick Mask HUD. This will generate a temporary mask to preview the results. Areas that are filled with red will be masked out, areas in green will remain. Keep in mind the edges will appear rough at this point and will be smoothed out when you generate the final mask.
- 3. If the preview results look good, press the Done button in the Tool Options bar or the Original Quick Mask HUD. If there are areas that are incorrect, you can continue to improve the results by adding more Keep and Drop strokes. Press Apply each time to preview the improved results. When you press Done, the edges are refined with high precision and Sky Swap switches to the Refine Mask tool, which you can use over difficult, semi-transparent areas—like tree branches—if necessary.



NOTE: The Original Quick Mask tool resets any existing mask previously created in the current local adjustment layer.

Original Quick Mask Tool Options Bar



Mode: This controls keeping (painting green) or dropping (painting red). Green areas are
protected in your mask, and are the areas of a layer or filter that will remain. The areas
marked in red will be removed or masked. In your layer these areas will become transparent.
On a filter in Sky Swap, these areas will have the filter's effect removed.

You can tell your current mode by looking at the plus or minus icon in the center of the Original Quick Mask brush. If the icon is minus, you are painting drop (red) areas; if the icon is a plus, you are painting keep (green) areas. You can change the mode in the Tool Options bar, or by pressing the Shift-X key, or by holding down the Option (Alt) key temporarily.

- **Brush Size:** You can control the size of the brush using the Size pop-up. Use a small brush at high magnification for precise work, and a large brush at fit to screen for general work. You can control the size of the brush several ways:
 - Use the Size pop-up in the Tool Options bar.
 - Use the left and right bracket keys: '['and']'.
 - Use your mouse's scroll wheel (this option can be set in Sky Swap's Preferences).
 - Use your pressure-sensitive tablet.

Further settings for the Original Quick Mask tool can be found by clicking on the gear icon in the Tool Options bar. There, you can set the following options (shown below):

- **Pressure Adjusts Size:** This option lets you control the size of the brush using a pressure sensitive tablet. The harder you press, the larger the brush becomes up to the current setting of the size slider.
- Refine Edge: This applies the Refine Mask Brush automatically to the edge of the resulting mask, creating a more natural transition. This is on by default and recommended for most photos.
- **Show HUD:** This displays the Original Quick Mask HUD dialog (shown on page 42), which provides guidance on how to use the tool.
- **Overlay:** Sets the transparency of the red and green mask overlays on top of your image. A setting of 100 displays only the mask; the default setting is 50.

LINE MASK TOOL (MASK GROUP)

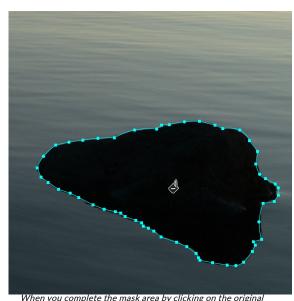


The Line Mask tool lets you create masks by drawing straight lines in your image, with the added flexibility of letting you adjust each individual line segment into curves to better

fit the object you want to mask. Masks created with this tool are re-editable, can be copied and pasted like any other mask inside Sky Swap, and you can have multiple Line Mask selections for each mask.

To start, you click and drag along the outline of the area you wish to mask. Clicking your mouse button (or with a pen and tablet) adds a point to the line; you can continue to click along the edges of your desired selection, and the tool will add points along the way. These points will be represented by a small square. When you're finished, hover your cursor over the first point and click on it to close the path created by the tool. This will close the selection and change the cursor to a paint bucket icon; click inside the area and Sky Swap will create and the display the mask.





when you complete the mask area by clicking on the original point, the cursor will change to a paint bucket icon. Clicking in the area will generate the mask, and let you adjust any of the points, or add curves for further refinement of the mask edge..

Once you've closed the mask, you can adjust the feather and opacity of the mask, and you can further adjust the points on the line in the following ways:

- You can click on any point in the selection and move it by dragging it.
- If you hover (or click) on a point, you'll see a circle appear between that point and the previous point on the line. This circle can be dragged in all directions to curve the line to better fit the object you are masking.
- Add a point by holding down the Shift key and clicking on the line.
- You can delete any point by right-clicking on it and choosing Delete Point from the pop-up.
- You can delete the entire mask by choosing Delete Line Mask from the pop-up menu.

While you're creating the mask, the curve option is always available for the current point; move the cursor back over the line before the point and the circle will appear. You can then drag the curve in or out, and when you're done, move the cursor and click on the next place you wish to add a point.

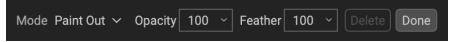
When you've made your adjustments to the selection, you can click the Done button in the Tool Options bar to quit the tool, or you can create another mask.

To re-edit the mask at a later time, select the filter, layer, or adjustment layer that has the mask attached to it and choose the Line Mask tool. When you move your cursor over the area that contains the mask, the mask's outline will appear in light blue. Click anywhere on the outline, and the mask's points — both square and circle — will appear, and you can adjust it as you see fit, even the Opacity and Feather settings.



The curve option—visible when you hover over a point in the selection—lets you fine tune the line to make it better fit the object you're masking. (Shown here exaggerated for effect.)

Line Mask Tool Options Bar



- **Mode**: The mode controls if you are painting out (hiding the effect inside the mask boundaries) or painting in (showing the effect).
- **Opacity**: This controls the opacity, or transparency of the finished mask, from 1 to 100 percent. At 100 percent, all of the effect will be displayed in the mask area; as the opacity level drops, more of the layer underneath the mask will be visible.
- **Feather**: Controls the hardness of the mask edge. The feather has a range from 1 to 100; 1 being a hard edge across the boundaries of the mask, 100 being a soft, wide edge that 'feathers' the transition between the masked and unmasked boundaries.
- **Delete:** Removes the currently selected line mask.
- Done: Saves the current line masks ad closes the tool, returning Sky Swap to the View Tool.

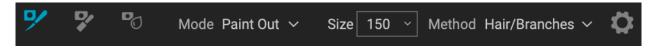
REFINE BRUSH (REFINE GROUP)



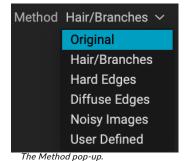
This tool, one of the most versatile in Sky Swap AI, can be used to clean up intricate areas and the borders along a mask. It is helpful for cleaning up a mask created with the Masking Brush, the Super Select AI tool, or other masking tools, or for creating a new mask entirely.

When you paint with the Refine Brush, the brush strokes are displayed as a red overlay, and when you let up off the mouse button, Sky Swap AI will work to make the mask edge better defined.

Refine Brush Tool Options



- **Mode**: Controls the refinement mode, either Paint Out, which refines to remove from the mask, Paint In, which refines to add to the mask, or Auto, which determines the best way to refine the mask edge. Paint Out is recommended in most cases.
- **Size**: This adjusts the size of the brush. Select a brush size that is just larger than the intersection of the subject and background. Avoid using oversized brushes it will take longer to process and may yield lower quality results. You can use your mouse's scroll wheel to adjust the size of the brush as well (see page 18). Unlike the other masking brushes in Sky Swap AI, the Refine Brush has a maximum size of 500 pixels.
- Method: Lets you choose the refinement algorithm and settings based on the subject of the masked area. There are five method types, plus a user-defined setting that is created when you adjust any of the individual parameters found in the Gear menu:
 - Original: Uses the refinement algorithm found in earlier versions of Sky Swap AI (referred to as Mode 1 in the gear menu).
 - Hair/Branches: Optimized for fine detail, like hair, branches and other subjects.



- **Hard Edges:** Best method for refining masks with distinct edges between masked and unmasked areas.
- **Diffuse Edges:** Works best on areas where edge detail is not as well-defined.
- Noisy Images: Works well on photos that have higher degrees of noise in them.

The Gear menu includes a setting for controlling the size of the Refine Brush with pressure. It also can be used to adjust any of the refine methods in the Method menu. The parameters include:

- Mode (1 or 2): As noted above, Mode 1 is the Refine Brush algorithm used in previous Sky
 Swap Al versions; it remains useful in many masking situations. Mode 2 uses the new (2023)
 version of the Refine algorithm.
- **Sensitivity (0-100):** Refers to the edge sensitivity; low for diffuse edges, high for hard edges. (Works only with Mode 2)
- **Locality (0-30):** This parameter varies the search for similar scene materials; higher values expand the search zone along the brush edges. (*Mode 2 only*)

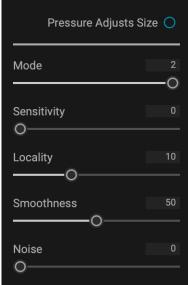
• **Smoothness (0-100):** Represents post-processing smoothing of the refine results. Higher numbers mean smoother edges. (*Mode 2 only*)

• **Noise (0-100):** This is a post-processing-based noise filter; use higher values with noisier images. (Works with both Mode 1 and 2)

When you change any of the parameters in the Gear menu, those results will be applied to the User Defined settings, and will be saved until you change them again. In general, however, most of your masking refinement work with the Refine Brush should be found in one of the five primary Method options.

Working with the Refine Brush

One of the biggest issues with masks is the transitions between edges, or in areas where one of the primary masking tools will miss some fine detail. You'll notice these transitions when you apply an effect or adjustment to a masked area, and there will be halos on the mask edges, or areas where the effect should be applied, but isn't. The Refine Brush, and, on occasion, the Chisel and Blur tools, can be used to help you fine-tune your masks and better transitions, ultimately creating more realistic masks.

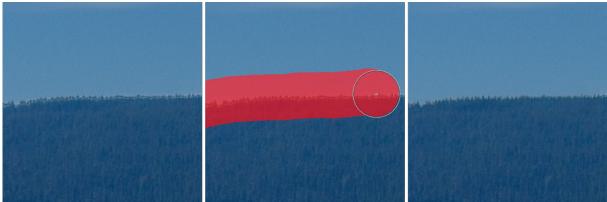


The Gear menu for the Refine Brush has options that let you fine-tune the brush settings, and saves them in the User Defined option for the Method pop-up.

The Refine Brush is often the first place you'll want to go when working with masks that could use some tuning. Some of the most common operations include:

- You can paint along the edges of a mask that might have areas where the mask isn't complete, or where the transitions between masked and unmasked areas could be smoother.
- You can paint over large areas of a masked area where there might be fine edges that could use further refinement, like trees or hair.
- You can also "encircle" an area in a photo where you wish to add to or subtract from a mask, or even create a new mask altogether.

For simple areas where you wish to refine an edge that has some halos or is otherwise a bit less than ideal, set the brush size a bit larger than the area you wish to tune set the appropriate method, and brush over the edge. This is shown in the enlarged area below.



In the photo above, a local adjustment on the sky, masked with Mask AI, left some ugly halos along a treeline. Using the Refine Brush, set to the Diffuse Edges method, smoothed the transition properly, making for a better mask. (Effect exaggerated for demonstration purposes.)

With tree branches, hair and other areas of fine detail, you can paint over the entire area that you wish the mask to refine, as shown in the following graphic.



The Refine Brush is a great choice for adjusting masks with fine details that are often obscured when building masks with some of Sky Swap's primary masking tools. In the screen shots above, you can see the mask of a tree generated automatically with the Mask AI pop-up in a local adjustment layer (left). The tree's interior branches are completely masked. Selecting the Refine Brush, with the Method set to Hair/Branches, we've painted broad strokes in and around the area where the branches are (center). Sky Swap then refines the mask so that the branches are properly masked against the sky, making for a much more realistic mask.

The Refine Brush's "encircling method" lets you add to or subtract from an existing mask, or you can use it

to create your own mask. To do this, use the brush to draw an outline around the object you wish to select and mask. What happens next depends upon what your intent is, and whether there is already a mask in the local adjustment or Sky Swap AI filter you are currently working with:

- If there is a mask already created, and you wish to remove the stroked area, choose Paint Out before applying the brush. If you wish to add to the existing mask, choose Paint In.
- If there is no mask already present in the adjustment or filter, using the Refine Brush and drawing around an object or area will create a mask of the encircled space.

For more information about masking inside Sky Swap AI, see "Masking Basics" on page 55.

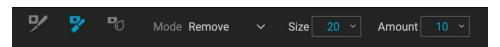


The encircling method.

CHISEL MASK TOOL (REFINE GROUP)

The Chisel tool, accessible vie the Refine Tool Options, bar works to remove fringes or halos along the hard edges of a mask; just click and drag along the edges of a mask you wish to refine. Fringes are common when the background to be removed is brighter than the foreground. The chisel works like a chisel or plane in a wood shop: It removes just a sliver along the edges, and, because it only works on the edges, you don't have to be too careful when using it.

Chisel Mask Tool Options



- Mode: Select remove or add
- **Size**: Adjusts the size of the chisel tool. Feel free to use a large chisel to make brushing fast. The size of the chisel does not affect how much is chiseled off.
- Amount: Controls the amount of pixels that will be removed or added during each stroke.

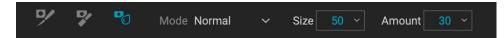
TIP: Double-click on the Chisel tool to apply the chisel to the entire mask edge.

BLUR MASK TOOL (REFINE GROUP)



The Blur Mask tool softens edges of the mask where you paint; all you need to do is run the tool over the edges you wish to blur. Softening the edges on blurred or semi-transparent subjects like hair can make them blend with a new background in a more realistic manner.

Blur Mask Tool Options



- **Mode**: Remove/Add/Normal lets you adjust what part of the mask edge to blur. Remove blurs and lightens the mask, Add blurs and darkens the mask, Normal blurs both light and darks.
- **Size**: Adjusts the size of the blur tool. Feel free to use a large size to make brushing fast. The size of the brush does not affect the blur amount.
- Amount: Controls the amount of blur. Use a low amount to maintain detail.

TIP: Double-clicking the Blur tool icon applies the blur to the entire mask edge.

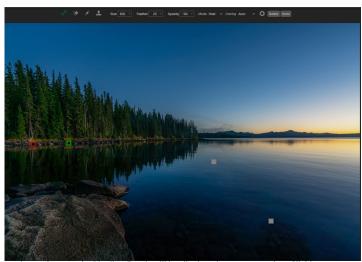
HEALING BRUSH (RETOUCH GROUP)



The Healing Brush is a tool for removing distractions like dust spots, power lines and unwanted people from your photos, using

sophisticated content-aware fill technology. Like the other retouching tools, you can apply the brush to multiple portions of an image. Unlike the other tools, however, the Healing Brush is fully non-destructive: each area you apply the brush to is individually editable (and removable).

To use the brush, paint over a distraction and a matching area of your photo will be blended on top to replace it, using contentaware technology. You'll see two circular



Areas that use the Healing Brush will be displayed as a gray marker. Clicking on a specific marker will let you readjust its placement or delete it.

markers: red, which is the area that has been removed, and green, which is the area that was used to fill the source. Each marker is movable by clicking and dragging; sometimes, you'll want to try a different area to match to your source. Non-active markers will be displayed as gray squares until you click on them. (Press the Delete key to remove the current area.)

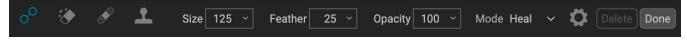
NOTE: Due to the nature of the replacement sky mask created in the Sky tab, Sky Swap's retouching tools will not work on objects that overlap with the replaced sky. If you wish to remove, copy or otherwise retouch areas that overlap with a replaced sky, you should perform those operations before using Sky Swap AI.

The Healing Brush has four modes, Heal, Stamp, Copy and Move. Each mode has a different approach:

- **Heal** mode applies content-aware matching from a nearby area to mask the object or area being painted out.
- **Stamp** mode acts like the Clone Stamp tool (see page 53), applying the actual pixels from the area used to mask the object out; unlike that tool, however, this option is non-destructive.
- **Copy** mode is similar to the Heal mode, except that it makes a copy of the brushed area or object instead of masking it out.
- **Move** mode is similar to Copy mode, except that it masks the brushed area and moves the original area to a new location.

Healing Brush modes cannot be changed once they have been applied; if you wish to change the application in an area, you must select the old marker, choose Delete from the Tool Options bar, set the new mode, and re-brush the chosen area.

Healing Brush Options

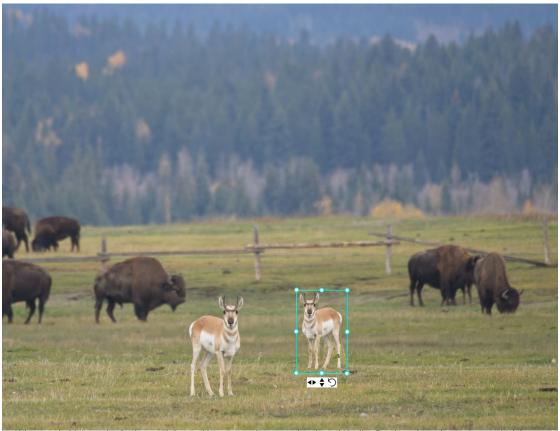


- Brush Size: Adjusts the overall size of the brush.
- Brush Feather: Adjusts the hardness of the brush.
- **Brush Opacity**: This adjusts how strong the retouching is. Use 100% to completely remove an imperfection. Use a lower opacity to soften it.
- **Mode:** sets the type of healing that will be applied when brushing Heal (content-aware), Stamp (pixel-exact), Copy (content-aware) or Move (content-aware).
- **Pressure Adjusts Size**: If you have a pressure sensitive tablet, you can adjust the size of the brush according to the pressure. Click the button to activate.

Transforming retouched areas

As noted, all applications of the Healing Brush are non-destructive, meaning that you can adjust the source and destination areas for each marker, and you can delete markers by clicking on the appropriate market and choosing Delete from the Tool Options bar (or by pressing the Delete key).

You can also transform individual destination markers in a photo by holding down the Option/Alt key (Mac/ Windows) and hovering over the area. When you do this, a box will appear over the currently selected destination marker. You can resize the selection by adjusting the handles on the box; to resize proportionally, hold down the Shift key. You can also rotate the selection by clicking outside the box and pressing the mouse key, or you can flip the selected area vertically or horizontally by clicking the icons underneath the box.



When you hold down the Option or Alt key and hover over the currently selected Healing Brush marker, a box appears, which lets you adjust the size, rotation and orientation of the marker. When used in conjunction with the Healing Brush's Copy or Move modes, you can easily duplicate and transform individual subjects within your frame, as shown by the copy of the pronghorn above..

PERFECT ERASER (RETOUCH GROUP)



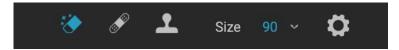
The Perfect Eraser can be used to remove distracting blemishes from your portrait. It uses a content-aware algorithm that replaces the pixels with a natural-looking result within the boundaries that are painted.

NOTE: Due to the nature of the replacement sky mask created in the Sky tab, Sky Swap's retouching tools will not work on objects that overlay the replaced sky. If you wish to remove, copy or otherwise retouch areas that overlap with a replaced sky, you should perform those operations before using Sky Swap AI.

Using the tool is easy: paint over the area you wish to remove, making sure you cover the entire area. A red overlay appears where you paint. If the first attempt does not give you a perfect result, paint over it

again and it will improve with each pass. You can also fine tune the area after applying the tool by using the Retouch Brush (see below).

Perfect Eraser Options



The Perfect Eraser's Tool Options bar consists of two options; brush size, and Wacom tablet support The default brush size for the Perfect Eraser is 125 pixels; you can make this bigger or smaller by clicking on the Brush Size in the Tool Options bar, or by pressing the right or left bracket keys on your keyboard. The maximum brush size is 500 pixels. If you have a Wacom pressure-sensitive tablet, select the Pressure Adjusts Size button in the Options bar.

RETOUCH BRUSH (RETOUCH GROUP)

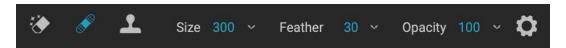


Use the Retouch Brush to remove small imperfections. Dab the brush on areas that contain spots or other imperfections, such as acne, or moles. The tool looks at the neighboring areas in your image and fills in the brushed area with an area of similar color and texture.

NOTE: Due to the nature of the replacement sky mask created in the Sky tab, Sky Swap's retouching tools will not work on objects that overlay the replaced sky. If you wish to remove, copy or otherwise retouch areas that overlap with a replaced sky, you should perform those operations before using Sky Swap AI.

It is best to use the smallest brush size possible and to work by dabbing rather than making large brush strokes. If you dab with the brush and don't like the results, use the Undo command and try using a smaller brush or vary your brush stroke and try again.

Retouch Brush Options



- Brush Size: This adjusts the overall size of the brush.
- **Brush Feather**: This adjusts the hardness of the brush. It works best to use a feather larger than 50 to blend and look natural.
- **Brush Opacity**: This adjusts how strong the retouching is. Use 100% to completely remove an imperfection. Use a lower opacity to soften them.
- **Pressure Adjusts Size**: Click on the button to activate the Wacom sensitivity controls.

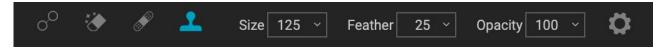
CLONE STAMP (RETOUCH GROUP)



Use the Clone Stamp tool to replace an area of a photo with an area from a different part. Hold down Option (Mac) or Alt (Windows) and click the area you want to clone from. Then click and drag on the area you want to clone over and it will clone from the point you selected.

NOTE: Due to the nature of the replacement sky mask created in the Sky tab, Sky Swap's retouching tools will not work on objects that overlay the replaced sky. If you wish to remove, copy or otherwise retouch areas that overlap with a replaced sky, you should perform those operations before using Sky Swap AI.

Clone Stamp Tool Options:



- Brush Size: This adjusts the overall size of the brush.
- **Brush Feather**: This adjusts the hardness of the brush. It works best to use a feather larger than 50 to blend and look natural.
- **Brush Opacity**: This adjusts how strong the retouching is. Use 100% to completely remove an imperfection. Use a lower opacity to soften them.
- **Pressure Adjusts Size**: If you have a Wacom pressure sensitive tablet, you can adjust the size of the brush according to the pressure. Click the button to activate.

VIEW (ZOOM) TOOL

This tool, which is the default tool selected when you open an image in Sky Swap, adjusts the magnification of the image in the Preview window. With the Zoom tool selected, click in the Preview window to zoom in and center the image at the location clicked. Hold down the Option/ Alt key to display the Hand tool, which lets you pan around the magnified image. You can also double-click the Zoom tool in the Tool Well to set the image to 1:1 (or 100%) magnification view, which

Masking Basics

One of Sky Swap's most powerful features is its masking capabilities. The Sky Swap pane also has its own Algenerated mask of the sky, and every adjustment panel in the Local tab can have a mask associated with it.

NOTE: Most of the masking and retouching tools are designed to work in Sky Swap's Local tab, although some, like the Masking Brush, can be used to fine-tune the mask in the Sky pane.

At its simplest level, a mask shows or hides the effect of the filter or adjustment. Masks have no color: they are grayscale, and the tones range from pure white to pure black. A mask that is completely white displays the entirety of the effect being used, a mask that is completely black hides that effect. (A common way to remember it is via the phrase "black conceals, white reveals.") Shades of gray are in effect the opacity of the mask. Darker shades reduce the effect, lighter shades let more of it through.

The beauty of the masks is that you can paint on them with black, white or any shade in between, so you can "mask" portions of your photo so that they will not have that effect—or will have a reduced effect. You can also copy masks from one adjustment layer and paste them into other layers. Using this feature, you can mask out the subject in one adjustment layer, copy the mask, paste it into another adjustment layer and invert it, applying a different effect adjustment layer and invert it, applying a different effect adjustment Brusk to everything but the sky. Sky Swap even lets you create luminosity masks, which are masks that are solely based on the brightness of the pixels in the image. You can view your masks, either as a red overlay or as the grayscale version of the actual mask, which can be helpful when you wish to look at the edges of mask.

Adjustment

Opacity

100

Opacity

Adjustment

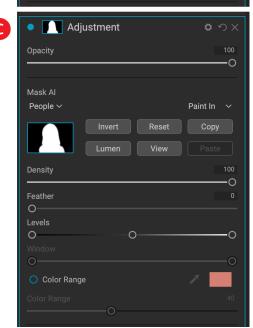
Opacity

100

Opacity

100

Opacity



Two views of a local adjustment layer mask, along with the Masking Control Options section. When you first add a local adjustment, the mask is black (A), which means that none of that layer's adjustments are applied to the photo. If you use the Mask Al option to generate a mask automatically, or if you use the Adjustment Brush or Adjustable Gradient to manually create a mask, the areas masked out (partially or completely) will be shown in the filter's mask view (B). And, whenever you click on the mask icon in the pane, it will open the Masking Control Options section, which includes settings for displaying, copying and pasting, and fine tuning that mask (C)

Creating masks are as simple as choosing an area with the Mask AI tool from the Add Adjustment button, or by using a masking brush or by placing an adjustable gradient. You can also use multiple tools and masking functions to create more complex masks. For instance, you can drop a gradient on a photo, use the Masking Brush to paint in places where don't want the gradient applied, or you can use the Color Range tools (found in the Masking Control Options area) to select portions of an image based on color.

THE MASKING TOOLS AND VIEW OPTIONS

Inside ON1 Sky Swap AI 2023, there are five basic tools that can be used to create masks: the Masking Brush, the Masking Bug, the Quick Mask AI, Original Quick Mask and Line Mask tools. There are variants of

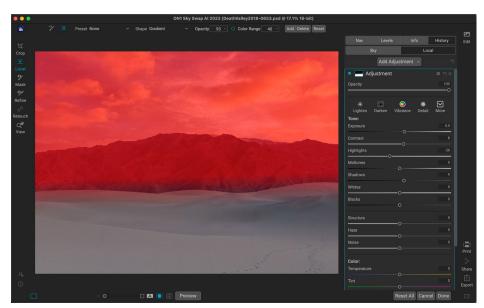
the first two that are specific to Local Adjustments (Adjustable Brush and Adjustable Gradient). The Quick Mask AI tool — along with the Mask AI tool in a local adjustment layer (see page 62) — generate masks automatically, based on known regions in your photos.

You can use the gradient and masking brush tools cumulatively, meaning that you can add to or subtract from the current mask. However, if you select the AI Quick Mask tool, it will replace any existing masks on that pane or layer. However, once you've created a mask with the AI Quick Mask tool, you can add and refine that mask with the other tools.

The Refine group of tools—Blur, Chisel and Refine—are designed to help work with edges and halos that can crop up when you have areas of strong contrast between a masked area and an unmasked one.

In addition to the masking tools, each mask has a set of controls you can use to manipulate the mask to refine it further (see "Masking control options," below for more).

When you add a filter or a layer, the mask is technically hidden. You can create a mask by either using one of the masking tools, or by clicking the Show/Hide Mask icon in the title bar of the pane, to the right of the filter name. The contents of the Show Mask icon will represent the mask on that layer.



Here is a local adjustment—using the Adjustable Gradient tool—that has been applied to a photo to lighten the foreground after the sky has been swapped. The Show Mask option has been turned on, so you can see where the effect has been masked out (shown in red). The gradient mask is softer at the bottom of the gradient, and entirely opaque at the top of the gradient. These smooth transitions can create a better look for your photos.

(Local Adjustment panes automatically create a black layer mask, so you can 'paint in' the adjustment to the image.)

Sky Swap has two primary options for viewing the contents of a mask: either as a red overlay on top of your image (the default) or a view only of the mask itself, represented as grayscale. You can turn the mask overlay on or off by pressing the 'O' key on your keyboard.

The grayscale view can be helpful when checking edges, or when refining some of the advanced masking controls. These mask view options are available from the Mask menu; select Show Mask to see the mask, while the View Mode option lets you switch between the two modes. You can also set the app to display the red overlay only when you are brushing with the Masking Brush and its cousins.

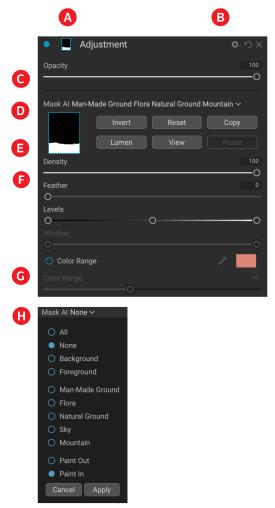
When you're viewing a mask in either overlay or grayscale modes — or even when you aren't actually viewing it — you have access to all of the tools in the Edit module. You can zoom in, to view the mask in greater detail, can use the Refine masking tools to adjust the fine edges of your mask. You can also use any of the other masking control options found in the Mask control options, as described below.

MASKING CONTROL OPTIONS

When you click on the Mask icon at the top of a local adjustment layer, Sky Swap AI will display a set of options for that mask. This section has the following contents, as shown below:

- A. The Show/Hide Mask icon, which displays the contents of the current mask. The default mask is white when you add an effect, and black when you add a local adjustment layer.
- B. Buttons for opening the blending options, resetting the filter, and removing the filter.
- C. Sets the overall opacity of the effect.
- D. Mask Al pop-up for selecting an area based on region.
- E. Larger display of the current mask, option to invert, reset, copy, paste, create a luminosity mask, and view/hide the mask.
- F. Density adjusts the overall density from black (100) to white (0). Feather blurs the mask. Levels and Window let you adjust the black and white points of the mask, fine tuning them in different ways.
- G. The Color Range option lets you choose a color and make or tune the mask based on the range of the color selected.
- H. Contents of the Mask Al pop-up menu, when clicked.

The buttons at the top portion of the Mask Options can be quite helpful, especially when you're working with complex masks, or when you wish to reuse masks in other parts of Sky Swap. There functions are as follows:



Overview of the Mask Options section.

- **Invert** reverses the contents of the mask, swapping the tones.
- The **Reset** button erases the current mask, leaving it filled with white.
- The Copy and Paste buttons let you copy the current mask, to paste it into another filter, local adjustment or layer.
- The View button toggles the Mask View on and off.
- The **Lumen** button creates a luminosity mask of the image for the current filter, adjustment or layer, replacing any existing masks.

Color Range selections

The Color Range option lets you create a mask using a specific color, either one inside your image, or one via your system's color picker. To use this option, click the On button next to the Color Range section, and click the eyedropper tool to select a color inside your image that you wish to sample. You can then use the

slider to expand or contract your mask based on that color: lower numbers means that fewer colors (related to the chosen color) will be selected, higher numbers mean a wider range of will be selected.

The Color Range option found in the Gradient masking tools can be controlled from the Mask Options section of the pane. When you add a gradient mask and click on the Color Range option in the Tool Options bar, the color chosen is sampled from the center of the gradient control, but you can open the Mask Options pane and sample a different color using the eyedropper. Note that if you do this, and move the masking bug, it will resample using the color from the center of the bug.

BLENDING MODES

In addition to opacity, you have one other very powerful option for adjusting the strength and effect of a filter: blending modes. Blend modes determine how a filter interacts with the filters below it in the image stack. Blend modes can darken or lighten an image, depending upon the mode chosen, while others adjust contrast or color. ON1 Sky Swap 2023's blend modes also let you apply a blend mode to specific colors or tones in your image, making them a very useful tool for precision editing of your images. You can apply sharpening, for example, only to the midtones in an image, which can be very helpful in a landscape image.

To see the blending modes, click on the Blending Options gear icon at the top of a filter's pane. The Blending Options area will drop down from the top of the panel. The blending option controls are:

- **Blending Options**: A pop-up list of blending modes. There are 24 common blending modes available in the list, including Normal, Screen, Multiply, Soft Light Overlay and Color.
- Apply To: This lets you apply the blending mode to a specific color or tonal range. The options are; All (the default), Highlights, Midtones, Shadows, Reds, Greens, Blues, Magentas, Cyans, Yellows, Flesh Colors, Vivid Colors and Neutrals. (You can also manually choose a color range by selecting the Dropper Tool in the pane and clicking on a color in your image.)

When you choose one of the options, the adjustment is only applied to that part of the image that is based on the lightness, hue, or saturation range specified. The Range slider expands or contracts the selected option, and the Highlights, Shadows, and Skin sliders protect those settings from your adjustments.

How blending modes work

At their basic level, blend modes determine how the pixels on one layer interact with the layers below it. With 24 blend modes in ON1 Sky Swap 2023, it might be difficult to know which ones to use in any given situation, but they can easily be grouped into Normal (the default mode) and five categories: Darken, Lighten, Contrast, Comparison, and Color/Luminosity.

Normal is the most widely used: it simply applies the effect to all of the pixels in the adjustment (or effect), assuming the layer opacity is 100%.

The other modes apply different levels of that category's effect using various mathematical

ON1 EFFECTS' BLEND MODES



formulas, and sometimes it can be hard to know which mode will work best with what photo. Most often, when you know how you want to apply an effect —by darkening, for example—you'll need to perform a bit of experimentation with the different modes in that category to determine which mode works best.

Sky Swap Preview Options

ON1 Sky Swap Al 2023 offers a few different previewing options, all of which can be found in the previewing section at the bottom of the window. With these options, you can compare the before and after views of a photo—in either



The Preview area at the bottom of the main Sky Swap Al window includes options for adjusting the preview magnification, turning compare (before/after) view on or off, viewing the current mask, turning soft proofing on or off, and for viewing the original photo, with all edits removed.

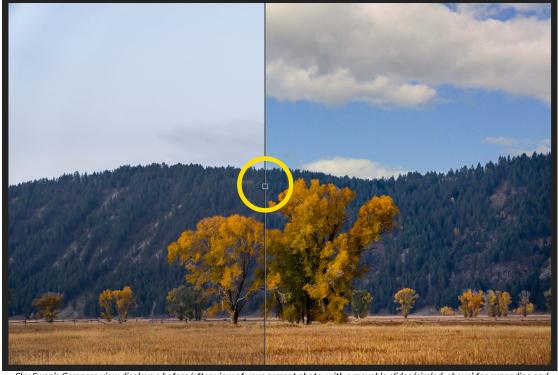
split-screen or full-screen views—see the current mask, and turn soft proofing on or off. You can also view both clipping and focus masks via the View menu.

CHANGING THE MAGNIFICATION VIEW

Sky Swap AI includes various options for zooming in or out of a photo while you're working on it. In addition to the Zoom tool and the Navigation pane (see page 20 and page 21, respectively), you can change the zoom view by moving the magnification slider. You can either click on the control and slide it to the right to zoom in and to the left to zoom out, or you can click on the boxes at the ends of the slider.

BEFORE/AFTER PREVIEWS

As you work in Sky Swap, it can be helpful to see how your edits affect your photo. Sky Swap's Compare mode displays a side-by-side view of your photo, with the original version on the left, the edited version



Sky Swap's Compare view displays a before/after view of your current photo, with a movable slider (circled, above) for expanding and contracting the different views.

on the right. There is a movable slider in the middle of the screen, which lets you view more or less of each view; click on the box at the center of the slider and drag it to the left (to view more of the edited image) or to the right (to view more of the original. While working in Compare view, you can use the magnification slider to zoom in or out of the image, which can be useful when you wish to see the effects of your edits on smaller sections of your photo.

You can also view your original image full-screen by clicking the Preview button at the far right of the previewing toolbar. When you click this button, the original photo is displayed with a "Preview Off" overlay. To return to your edited version, click the Preview button again. (You can also use the backslash key—'\'—to show and hide the full-screen preview.)

SHOW/HIDE MASK

When ON1 Sky Swap AI 2023 adds a sky, it creates a 'mask,' which separates the sky area from the other regions of the photo. Most of the time, when you're working in Sky Swap, you won't need to adjust the mask. But you can view the current mask (either in the Sky tab or the Local tab) by pressing the Show Mask button in the previewing section at the bottom of the screen. Clicking this button will display a transparent red overlay, where the masked sections of your photo are shown in red (the overlay can be changed to black and white via the Mask menu). For information about painting a masked area in or out, see "Masking Basics" on page 54.

FOCUS AND CLIPPING VIEWS

Two additional previewing tools that can be powerful aids when you are retouching photos are the Clipping and Focus Mask overlays.



Clipping view displays pure white pixels with a bright red overlay, and pure black pixels with a bright blue overlay.



Focus Mask displays areas of sharpness with a green overlay.

Clipping

Clipping occurs when the shadow and highlight tones in an image are suddenly cut off to completely white or black, rather than fading smoothly. (Large expanses of white pixels in a photo are often referred as 'blown' highlights, and can be quite distracting to a viewer.) One of the benefits of shooting in raw format

is that, while many photos will have areas of pure white or black when originally viewed on-screen, there is still recoverable data in the raw image. The Clipping overlay can help determine how big a problem you might have with a photo, and how easy (or difficult) it will be to fix.

To display the Clipping overlay temporarily, press the J key; to turn it on permanently as you move from photo to photo, choose View > Show Clipping, or press Alt (Windows) or Option (Mac) J on your keyboard.

The Clipping view overlay displays the areas that have either pure white or pure black in them. Those areas with a bright blue overlay indicate pure black pixels, while the areas with the bright red overlay indicate pure white pixels.

Focus Mask

It can often be difficult to view the sharpness in a photo without zooming in to 100% or more, and if you have a lot of photos from a shoot, it can be a bit tedious to check focus at that level. Luckily, Sky Swap Al's Focus Mask overlay can help winnow your shots down to the sharpest ones.

To turn on Focus Mask, choose View > Show Focus Mask, or press Shift-Alt-J (Windows) or Shift-Option-J (Mac). The sharpest areas in your image will be represented by a bright green overlay. As you move from photo to photo in a folder, you'll be able to tell whether you have an acceptable level of sharpness where you need it by the strength of the overlay. The mask will continue to be displayed even as you zoom in on a photo.

SOFT PROOFING

ON1 Sky Swap Al's soft proofing feature lets you see how a photo will look when printed, using the color profiles that get installed with your printer. Soft proofing helps you determine where there might be issues when you print, so that you can adjust your tone, color and effects to give you a print that is closer to your editing vision.

Normally, when you're viewing an image in Sky Swap AI, you are viewing it through the lens of your monitor's display profile. The color gamut of your computer's display is wider than that of most photo printers, which means that some colors you are able to view on-screen are not reproducible when you print. When this happens, the color profile conversion that happens in the print engine will cause substitutions of colors that the printer cannot print to the closest color that it can. This means that your image could have subtle (or broad) shifts in color, especially in certain color ranges.

Soft proofing is turned on via the View menu, or by clicking on the soft proofing icon to the left of the Preview button at the bottom of the main Sky Swap Al window. You soft-proof various paper types by choosing an installed printer profile from the Profiles submenu. The image will change to approximate the

color of the paper you're profiling. You can also turn on an overlay that will display out-of-gamut colors.

The primary soft-proofing options are available underneath the Enable Soft Proofing item in the View menu. The options are as follows:

 Gamut warning: When checked, this displays colors in the image (via a red overlay) that don't correspond to the current printer profile being soft proofed. Adobe RGB (1998)
Apple RGB
ColorMatch RGB
ProPhoto(2.2) RGB
ProPhoto RGB
sRGB IEC61966-2.1
Epson_SP7900_9900_Legacy_Etching_MK_v1
✓ Epson_SP7900_9900_Legacy_Fibre_MK_v1
SC-P600 Series Premium Luster

Import Color Profile...

The Profiles submenu displays the installed printer profiles for any installed photo printer. You can also import your own color profiles.

- Profiles: The Profiles submenu lists the currently available printer profiles. Choosing one
 will change the on-screen display to use that profile. You can also import profiles via this
 submenu.
- Intent: Sky Swap AI offers two different rendering "intents" when soft proofing, which are used to convert the color from display to print. Perceptual shrinks the color gamut during the conversion, which works to preserve the relationship between colors in the image. The other intent type, Relative, only converts colors that are outside the current color gamut, but this can sometimes cause two colors, one in gamut, and one outside, to be identical after conversion.

Neither rendering intent is perfect or desired; it often is a matter of the makeup of the image, your editing intent, the paper being printed on, and so forth. Often, you'll want to switch back and forth between Relative and Perceptual, seeing which gives you a better print.

• **Simulate Paper and Ink:** Turning this setting on will cause Sky Swap AI to use the white point for the chosen paper type (instead of the white point of your monitor), and the paper's actual black density (instead of the display's black point). If you're trying to match a print, you will usually want this setting turned on.



These three screen shots show the results of soft proofing options, as viewed in Sky Swap AI. The left image is with soft proofing off (and is using the display color profile). The middle image is with soft proofing turned on, and using a printer profile for Epson's Legacy Fibre Paper. The bottom image has the Gamut warning turned on; out of gamut colors are highlighted by the bright red overlay.

Adjusting images with soft proofing is often a bit of trial and error. It's easy to get caught up in eliminating out-of-gamut colors, but most modern photo printers—both home printers and online print services—do a pretty good job of properly approximating colors.

The biggest thing you want to be looking for when viewing a soft proof is tone, contrast and color accuracy between screen and print. When using a home printer, use test prints to hone in on the right mix of adjustments.

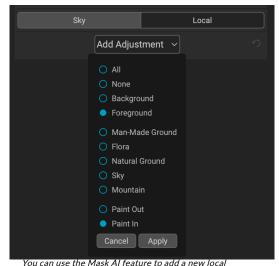
PART 3: USING LOCAL ADJUSTMENTS

You can easily make targeted tonal and color adjustments to specific areas of a photo while you're working inside Sky Swap AI. These localized edits let you apply editing touches to areas of a photo, to enhance your subjects, backgrounds and other elements in the frame.

NOTE: Due to the nature of the sky mask created in the Sky tab, you cannot use local adjustments to adjust the replaced sky. The basic masking, mask refinement tools, and the retouching tools will only work on areas other than the sky.

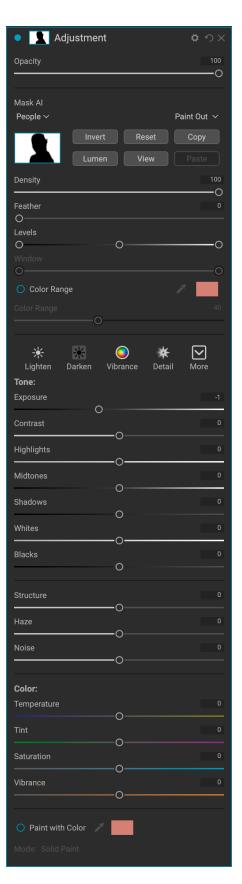
You can create local adjustments using the Adjustment Brush or the Adjustable Gradient tools, but you can also use ON1's Mask Al technology to automatically select areas in a photo.

You can create as many local adjustments as you need on an image by clicking on the Add Adjustment button at the top of the Local Adjustments section. If you'd like to use the Mask AI feature, hold the mouse button down on the button, and choose the appropriate region for which you wish to apply a local adjustment. ON1 Sky Swap AI will create the mask and open the new pane in the Local Adjustments stack.



adjustment layer by clicking and holding on the Add Adjustment button at the top of the Local tab. The regions in the current photo will be labeled.

Local adjustments can be used to apply a gradient filter to lighten or darken the foreground, for example, or to add a more



complicated vignette to an image. Local adjustments are in essence a mask that is applied to a portion of your image, and you can manipulate those masks in powerful ways with both the blending modes and the luminosity options in the Local tabs.

Operations you can perform with local adjustments include tone (exposure, contrast, highlights and shadows, detail), color (white balance, saturation and vibrance) and detail (structure, dehaze and noise). Each adjustment layer can have different settings and can work on different parts of your image. You can also use local adjustments to paint with color over part of a photo, to perform specialized tasks such as skin retouching or to replace the color of an object.

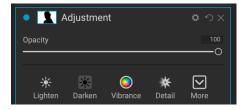
Local adjustments are independent from the Sky Swap tab; you can create a local adjustment, return to the Sky tab to work for a bit, and when you click on the Local tab again, your adjustments remain intact.

Local Adjustment Layer Details

Local adjustment layers all contain the same basic options and controls. The primary controls are for applying tonal and color adjustments, but there are also options for adjusting the strength of the layer (opacity and blending modes) and for editing and tweaking the contents of the layer's mask. The mask for the adjustment layer is represented at the top of the pane. Clicking on the mask icon will open the Masking Control Options section (see page 55)

In addition, the top of each local adjustment layer includes the following options:

- Opacity: Sets the opacity of the adjustment.
- **Styles**: The pane has a number of styles for you to start with, including ones for lightening or darkening, adding vibrance, fixing teeth or red eye, and more. (You can also save your own styles via the More pop-up menu.)

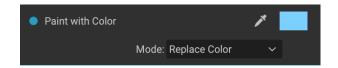


The main section of the Local tab has basic tonal and color adjustment options: Exposure, Contrast, Highlights, Shadows, Detail, and Color Temperature, Tint, Saturation and Vibrance. In addition to those settings, the local adjustment pane includes a Noise slider, designed to help reduce noise on a targeted level (most often seen in the shadows).

TIP: You can name each adjustment layer by double-clicking on the word 'Adjustment' in the pane. This can be helpful when you have a lot of adjustment layers and wish to remember which adjustment did what.

PAINTING WITH COLOR

The Paint with Color option at the bottom of the local adjustment panel lets you use the Local Adjustment brush to select a color and paint it into your image. It is designed for two situations: when you wish to apply



softening (or evening out) to portions of an image by blending existing color, and to replace the color of an existing object.

The Paint with Color section has three options, Solid Paint, Replace Color, and Classic, and a color swatch for the chosen color. You can choose a color from your image by clicking on the eyedropper icon, or you can click on the swatch and choose a color from the system color picker.

Solid Paint will paint over anything you brush with the chosen color; think of it as painting with a Normal blending mode. Replace Color will replace the hue, but not the luminosity, of the color you are brushing over; it is essentially painting with a Color blend mode, in which whites are preserved.

The Solid Paint option is an ideal skin softening tool; use the eyedropper to select a midtone section of skin, and, using a low opacity setting, paint over parts of the skin with the brush.

USING CUSTOM BRUSHES TO ADD OVERLAYS TO PHOTOS

One specialized use for local adjustment layers and the Paint With Color's Solid Paint option is to add overlays with custom brush shapes. You can paint in stamps, watermarks, and other shapes to create specialized creations or enhanced photos. For example, you could use a custom cloud brush to add interest to a lackluster sky, or you could create your own watermark and apply it precisely. Sky Swap AI comes with a collection of custom brushes of all kinds, and you can import any black-and-white TIF file or Photoshop-compatible .abr brush file for use in the app, via the Extras Manager (see page 16).

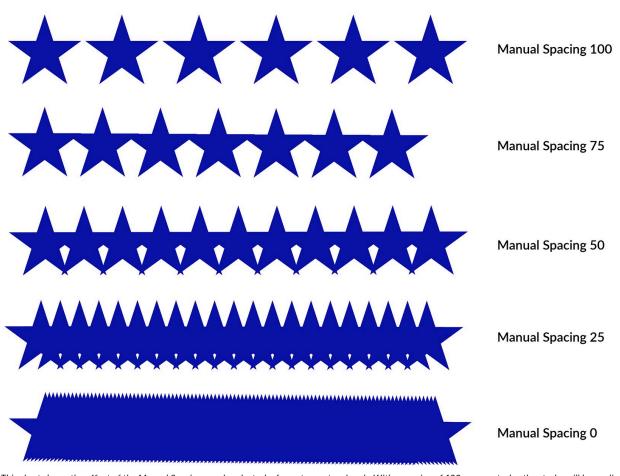
Creating basic overlays with a custom brush is easy:

- 1. Create a new local adjustments layer by clicking on the Local tab.
- 2. If the Adjustment Brush isn't selected in the Tool Options bar, select it, and choose a new brush from the Shape menu in the options bar.
- 3. Set the brush size and angle. In general, you'll want to keep the Opacity and Flow high, and the Feather low (or 0), but that will depend upon the brush and the application.
- 4. From the gear menu, turn the Manual Spacing option on. Depending upon the brush type and the application, you'll have to play with the Amount slider, but the general rule of thumb is, for stamped brushes, where you wish the shape to be applied singly, set the spacing low. If you wish to apply the brush multiple times with a stroke—and have clear definition between the brush shapes—set the spacing higher (see the spacing chart below for an illustration of the different settings).
- 5. Turn the Paint With Color option on and set to Solid Paint. Choose a color for brush, and paint as desired on the image.

TIPS FOR USING CUSTOM BRUSHES

- The best way to begin working with brush overlays is to practice. Use some of the default brushes, and play with them by adding them to a photo or blank canvas.
- Use the Brush Styles option (in the Tool Options bar) to save your favorite brushes and their optimal settings.
- The maximum brush size in Sky Swap is 2500 pixels.
- If you're applying a brush as a single stamp here and there on a photo, start with a feather of 0, and Opacity and Flow set to 100. Once you've set your brush size and angle, click once on the image.
- The Paint With Color option applies to all brush strokes made on that adjustment layer. You

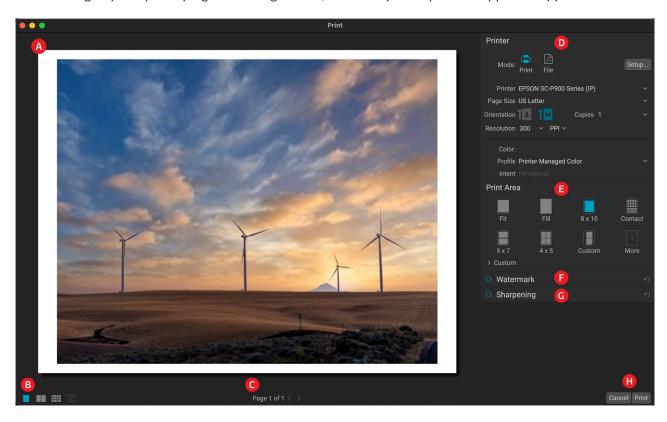
can easily change the color via the color patch in the panel. If you want to apply the same stamp with different colors, create a new adjustment layer for each color.



This chart shows the effect of the Manual Spacing on a brush stroke for a star custom brush. With a spacing of 100, as you stroke, the stroke will be applied with plenty of space between the brush shape. With a spacing of 0, the shape will meld together as you apply the stroke. Depending upon the brush type, this might be acceptable for your purposes.

PART 5: PRINTING

ON1 Sky Swap AI has a flexible print engine that can print photos at any size. You can print photos individually; or multiple versions of a photo, package style, on a single piece of paper. You can even print when using Sky Swap as a plug-in from Lightroom, Photoshop or any other supported apps.



The print window can be opened by clicking on the Print icon in the module selector, or by selecting the Print command from the File menu. It has the following components:

- A. **Preview:** Displays the photo being printed.
- B. **View Selector:** The middle two icons are not applicable inside Sky Swap, because you can only work with one photo at a time; the icon on the far right turns soft proofing on and off when you are using application-managed color.
- C. Page view: Displays the number of pages being printed. (Not applicable in Sky Swap Al.)
- D. **Printer pane:** Contains options for output—printer or PDF—as well as printer, page setup, page size, number of copies, resolution, and printer profile and rendering intent.
- E. **Print Area pane:** Contains options for fitting and selecting the print image size.
- F. Watermark pane: For adding a watermark to printed photos.
- G. Sharpening: Options for sharpening during the print process.
- H. **Print/Cancel:** Print the current photo or cancel the operation.

NOTE: The print engine in Sky Swap AI is based upon the engine inside ON1 Photo RAW, which has the capability to print multiple photos at a time. Because Sky Swap can only work with a single photo, some of the options, like contact sheets and some view settings, are not applicable in Sky Swap.

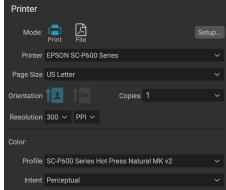
Printing Options

The four panes in the Print window—Printer, Print Area, Watermark, and Sharpening—each deal with a specific printing-related task.

PRINTER PANE

The Printer pane is where you set the printer-specific features for your output. It has two modes, which are chosen by clicking on the icon at the top of the pane: Print, which lets you print to a connected printer, and File, which will print the selection to a PDF.

When choosing to output to a printer, you'll set the specifics of your printer, the paper size you wish to print to, the resolution, orientation, and the number of copies. When choosing resolution, make sure that you are printing at the printer's optimal resolution. Most photo printers, for example, work best with a file that has between 240 and 360 ppi. (Sky Swap will use its internal resampling engine to ensure that your photo is at the final resolution you choose.)



The Printer pane sets printer-specific options for the current print job. You can also choose to render the print job to a PDF file.

At the bottom of the pane is a section for choosing a printer-specific color profile; choose the media profile for the paper type you are printing to. If you wish the printer to handle the color conversion, select the Printer Managed Color option in the Profile list.

The rendering intent is related to the conversion of an image's colors to fit within the color range (or gamut) of the printer. The default intent, Perceptual, will change all of the colors in a photo proportionally to fit within the printer's range of colors. The other option, Relative Colorimetric will only change the colors out of the printer's gamut, to the closest in-gamut color. Depending upon the image, you might need to play with the intent settings, but Perceptual is usually the best place to start.

When choosing a specific paper profile—as opposed to Printer Managed Color—you can use Sky Swap's Soft Proofing feature to look at out-of-gamut colors in your photos. Click on the soft proof icon at the bottom left side of the window to view the photo with your chosen paper. (See page 60 for more.)

NOTE: Sky Swap's Print feature will work with borderless printing options as well. Be sure to choose your printer's borderless options in the page setup pop-up. Different printers will have specific borderless settings, so check the manual to see how to turn borderless printing on.

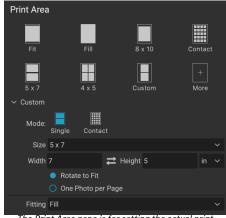
Printing to a file

In addition to sending images to a printer, you can also choose to export the current print job to a file. This can be helpful if you are submitting prints to an online service or to print remotely. To use this option, click on the File icon at the top of the pane. Sky Swap will ask you for a filename and a location to save the file. Choose a page size for the file from the Page Size pop-up, and adjust your print area settings. When you choose Print, Sky Swap will create a PDF of the photo (or photos) and save it with the name and destination you specified earlier.

PRINT AREA PANE

The Print Area pane is where you set the options for the size of the print, and how you wish your photos to be printed. You can also choose whether to print photos individually or package-style. (The contact sheet option, while present, is not applicable in Sky Swap, as it is largely designed to gang-print a set of different photos.)

The top of the pane includes preset styles for either fitting the current photo inside the size of the print, or filling the entire size of the print. It also includes options for printing at common print sizes, including 8x10, 5x7, 4x6; and options for printing to a contact sheet. You can also create custom print sizes via the Custom section at the bottom of the pane; just set the width and height of the print size, and whether you wish to fit the image to the print size, or to fill the frame with it. If you would like to save this print



The Print Area pane is for setting the actual print size of the photo or photos you are printing.

size as a style, click on the More pop-up at the top of the pane, and choose Save as New Style from the menu. You'll then be able to recall that style from the More pop-up whenever you print.

If you are printing multiple copies of a single photo, Sky Swap will attempt to put as many photos at your chosen print size on the paper size as defined in the Printer pane. To print only one photo per page, click that option at the bottom of the Print Area pane.

Page size vs. print size

It's worth understanding the distinction between the page size and the print size. In some cases, the two will be identical. For example, if you wish to print on 4x6-inch photo paper, you would choose that option in the Printer pane's Page Size pop-up, and then 4x6 in the Print Area's Custom pop-up. Depending upon the aspect ratio of your photo, you then might need to choose Fit or Fill to get the proper crop. Fit does exactly what it sounds like: it will fit the entire photo within the bounds of the photo's dimensions, which means that there could be some extra white space around the final print. Fill will resize the photo to fill the dimensions of the chosen print size, centering the image.

In our example, a 4x6-inch print has an aspect ratio of 2:3. If the photo you are printing has that aspect ratio, then Fit and Fill do the exact same thing: the photo will fill the print area without any cropping.

For package printing, where you wish to generate multiple prints on a larger sheet of paper, you'll set the specific size paper you are printing to in the Printer pane, and then set the appropriate print size for each photo in the Print Area pane.

WATERMARK PANE

The Watermark pane adds an overlay to the printed image, and is most often used for your logo, signature or copyright. Watermarks generally need a transparent background, so make sure your watermark file is a PNG or PSD.

The module has the following options:

- **Choose**: Click the Choose button to select the file you wish to use as your watermark. Once you've added a watermark file, it will be saved to the Logo File pop-up.
- Size: This slider controls the size of the watermark file.
- **Inset**: This will determine the percentage in which the file is inset from the edge, based on the Position (see below).
- **Opacity**: This sets the opacity of the watermark.
- **Position**: This grid sets the location of the watermark. Click on the square of the location you desire.

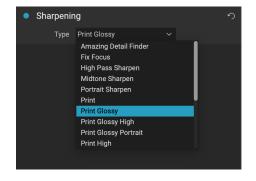
When working with watermarks, make sure your watermark file is sufficiently large for your usage. For example, if you want it to appear 2 inches wide on a 300-ppi image, your watermark needs to be at least 600 pixels wide. Otherwise, it could appear pixelated on the print.



SHARPENING PANE

In most cases, and depending upon the media type you print to—glossy papers often benefit from additional sharpening, for example—you'll need to add an additional sharpening step when printing. This is an additional level of sharpening beyond anything you might have applied in another app.

The Sharpening pane lets you select a type of sharpening that will be applied to your photos during the printing process. The pop-up menu has a set of options for general sharpening, including ones for a standard print, glossy papers, details, high-pass sharpening,



and many more. Depending upon the image, you might need to play with the settings here; performing test prints on small sections of a photo can often be quite helpful in determining the proper level of sharpening in a print.

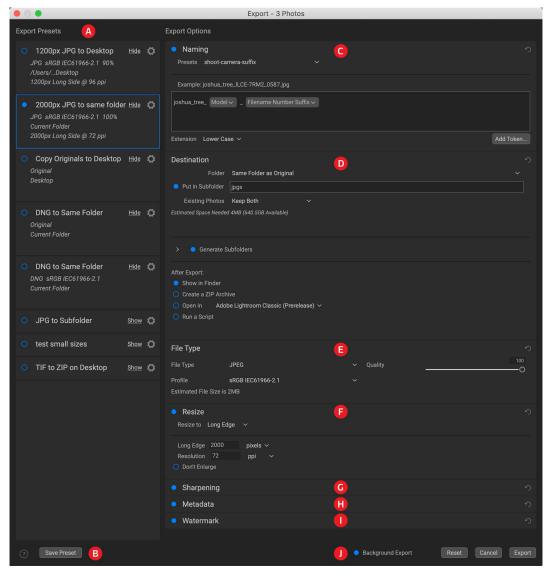
PART 6: EXPORT AND SHARING



Export is a special function that is available inside ON1 Sky Swap Al 2023. The Export window gives you the power of ON1's patented Resize technology in an easy-to-use panel, letting you export your photos with incredible flexibility, ease and control.

The Export window is separated into two panels: Export Presets and Export Options. The Options panel contains specific types of options—file renaming, destination folders, file type and more—that you can use when you are exporting images from Sky Swap. If you find that you are using a specific set of options all the time for your workflow, you can create a preset and apply that whenever you use Export.

The contents of the Export window include:



- A. **Export Presets:** The current preset (if used), will be represented with a selection box around it, and the filled circle to the left of the preset name means that it will be used when the Export button is pressed. To use the Export Options panel without any preset applied, turn off all of the presets in the list, and click in the current preset once.
- B. **Save Preset:** Lets you save the current set of export options as a preset.

- C. Naming: Renames the exported file based on criteria added to the rename box in the panel.
- D. **Destination:** Lets you set the destination of the exported files. (required)
- E. File Type: Sets the file type for each exported file. (required)
- F. **Resize:** Adjusts the size for each image.
- G. **Sharpening:** Applies sharpening to the exported images.
- H. Metadata: Adds/removes metadata from the export.
- I. Watermark: Lets you add a text or graphic watermark to an exported image.
- J. **Export/Cancel:** Starts the exporting, or cancels it and returns you to Sky Swap.

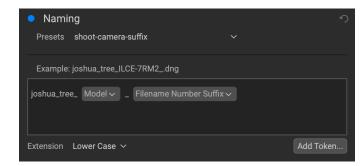
Export Options

NAMING

The Naming pane gives you extensive controls for creating customized filenames using tokens in the entry box inside the pane, as well as with any custom text entered directly into the entry box. You can use any combination of tokens and text in the entry box, and the Example label directly above the box will display

what your new filename will look like, using the first item in the export group.

To use this feature, click the control circle to the left of the label in the panel. Add any custom text, or click the Add Token pop-up menu to add tokens based on information associated with the image, including filename data, date and time information, and associated metadata There are four submenus in the Add Token menu:



- **Filename**, which includes options for using the original filename, number suffix (taken from the image as recorded by the camera) and enclosing folder name.
- **Date/Time**, which includes a list of date (year, month, day) and time data that can be combined in various ways.
- **Sequence** is intended for batch processing of images. (Not applicable when exporting from Sky Swap, which processes a single image at a time.)
- Metadata, which lets you add specific EXIF and IPTC metadata to the filename.

To build a rename sequence using tokens, click on the Add Token button, and choose the appropriate token from the pop-up menu. The token will be added as a shaded item in the text field, and the Example item above the text field will show a sample of a renamed file using the current set of tokens and custom text. To change an existing token, click on the down arrow on the right of the token, which will display the full set of tokens. To delete a token, double-click on it and press the Delete key.

Custom text can be added anywhere in the entry field. You can click the cursor at the beginning or end of a token (or in between tokens) and add spaces, dashes, underscores and any other text you wish to be included in each renamed file. Each change you make will be updated automatically in the Example label.

The Presets pop-up menu at the top of the Rename window includes a set of common token combinations that you can use as a starting point. You can also create your own batch-rename presets: build the rename options you wish, and choose Save New Preset from the bottom of the Presets menu. You can also update an existing preset and delete presets from this menu.

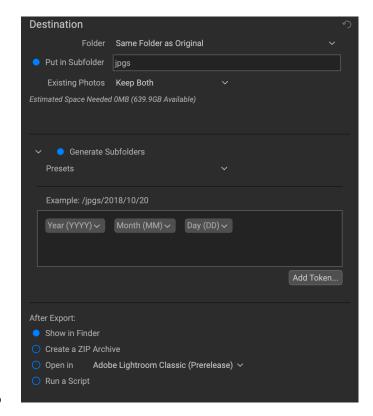
Because the Rename process is not undoable, make sure you use the Example field to check that your text and token combinations give you the filenames you expect for your batch process, and adjust as needed. When you're sure, click Apply, and Sky Swap will rename all of the files.

NOTE: A complete list of the tokens used in the Rename window, with explanations, can be found starting on page 77.

DESTINATION

The Destination pane is where you set the desired location for the exported images. At minimum, you must specify a destination folder for your export, but the pane has a number of options for adjusting the export location:

- The Folder pop-up menu lets you choose the same folder as the original images, another folder, or, can be set to ask for a destination every time, which can be helpful when you're using an export preset.
- Checking the Put in Subfolder option will export the images to the folder or, create a new folder, if it doesn't exist—specified by option's text field.
- The Existing Photos pop-up is for those times when there might be a naming conflict within the destination folder. Replace will overwrite the file with the new one being exported, Skip will leave the destination file alone and not export the new file, and Keep



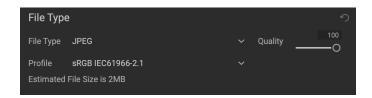
Both will add a number '1' to the end of the filename of the exported file, preserving both files.

- **Generate Subfolders** will subdivide the export based on the exported file's metadata, creating subfolders as necessary—or, if the folders exist, placing the exported file into the appropriate subfolder. This option uses the same token-driven scheme (and presets) used in the Naming pane.
- **After Export** lets you determine what to do when Sky Swap completes the exporting process. Options include displaying the image location in the macOS Finder or Windows Explorer, to

create a ZIP archive of the exported group, to open in another editing application, or to run a script.

FILE TYPE

Like Destination, File Type is the other required element for using Export. Sky Swap can export in DNG, PSD, TIFF, JPG and PNG formats. With the exception of DNG and PNG, each file format has specific options in the pane:

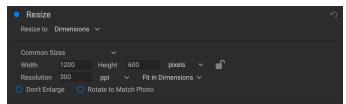


- Original includes options for embedding metadata and saving an ON1 sidecar file with the exported images.
- **JPEG** includes options for JPEG quality and for attaching a color profile.
- **Photoshop** includes options for attaching a color profile, bit depth, and whether to flatten any layers in the original image.
- **TIFF** includes options for image compression (none, LZW or ZIP), attaching a color profile, bit depth, and to preserve transparency.
- **DNG** and **PNG** have no additional options.

The File Type pane also includes an estimated file size for the first item in the group.

RESIZE

The Resize pane lets you adjust the finished dimensions of the exported photos, using the patented Genuine Fractals technology found in ON1 Resize. It has seven options for export: Dimensions, Long and Short Edge, Width and Height, Megapixels and Percentage. Each option has a different range of settings, and all have a



The Resize pane, with the Dimensions option open.

setting for resolution (in pixels per inch, or ppi), as well as a Don't Enlarge option, which, when set, will not upscale a file past its native image dimensions (but will still export the file).

The **Dimensions** option is the most complex of the six Resize options, letting you set the exact pixel dimensions of the exported files, in terms of width and height. This option is best for when you are exporting single images, when all of your exported files have the same aspect ratio and orientation, or when you wish to fit the exported images to an exact size.

The Common Sizes pop-up menu at the top of the pane options lets you set the final dimensions to any of a broad array of common paper, photographic ratio, square and video formats. You can also create your own specific sizes for re-use via this menu.

Click the lock icon to resize the images proportionally as you enter either the width or the height, or, if you wish to fit the images to an exact width and height, click the lock icon to turn it off. If an exported image doesn't exactly fit the dimensions you set for Width and Height, Export will do one of two things, depending upon whether you have Fit in Dimensions or Fill Dimensions set in the pop-up to the right of the Resolution box.

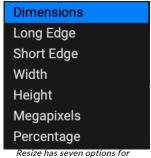
- Fit in Dimensions will fit the exported file inside the boundaries of the width and height settings.
- Fill in Dimensions will zoom the exported image to completely fill the boundaries of the width and height settings, essentially cropping the exported image. If the image's aspect ratio is different from the width and height settings, the image will be filled from the center.

The Dimensions options include one more setting, Rotate to Match Photo, which, when checked, will rotate an exported photo to maximize its orientation. For example, if you exported a group of images to fit a landscape orientation (longer width than height), any image that was in portrait orientation (longer height than width) would be rotated during export.

The remaining options in the Resize pane include:

Long Edge and Short Edge are useful when you want to lock one edge to a specific length or width and don't care about the sizing of the other edge. Simply choose which option is the important one for your photos, enter the dimension, and Export will resize your images proportionally based on the chosen setting. When you're exporting a group of images with different orientations (landscape or portrait), these options will ensure that all images have the same long or short edge dimension.

Width and **Height** will resize all of the images proportionally to the width or height defined, regardless of orientation. Exporting photos with different orientation will result in the width or height of every image being the same, depending upon the setting chosen.



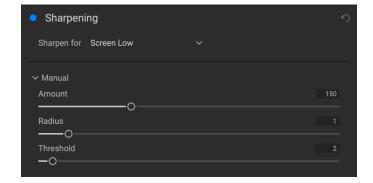
Resize has seven options for exporting images.

Megapixels will export images to a specific megapixel count, while **Percentage** will enlarge or reduce the size of the exported images. Percentages below 100 will reduce the image, while those above 100 will enlarge the image.

SHARPENING

The Sharpening pane has two modes, Sharpen For and Manual. The Sharpen For pop-up menu lets you choose from six options, based upon your final intent. There are four options designed for print output, Glossy Paper High and Low, and Matte High and Low, and two option for display output (for social media or online sharing), Screen High and Low.

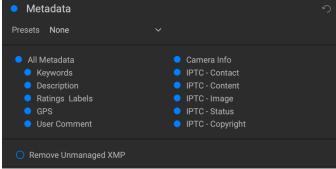
The Manual setting provides a bit more control over the output sharpening, letting you adjust



the Amount (overall strength), Radius (detail) and Threshold (masks out areas that shouldn't be sharpened based on contrast).

METADATA

The Metadata pane lets you set which pieces of metadata are exported—or not exported—with the images in the export set. You can choose to export all Metadata or by clicking the control circle to the right of the All Metadata label. If you click that label off, you can then select which metadata items you wish to save by clicking the appropriate label.



When checked, the Remove Unmanaged XMP button only exports metadata that ON1 recognizes as standard metadata fields; any unmanaged image metadata from other apps will not be included.

WATERMARK

The Watermark pane adds either text- or graphicsbased watermarks to an image, with options for size and positioning, opacity, font type, and more. You can import your own logos and save either watermark type as a preset for frequent use.

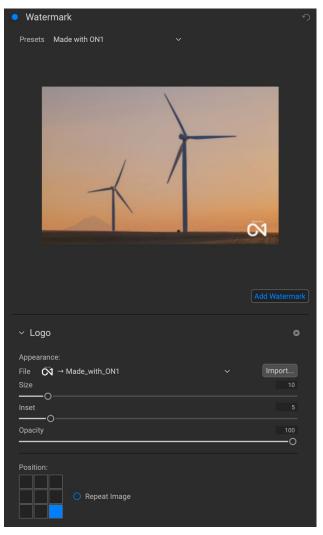
The Watermark pane also gives you a representation of your chosen watermark (on the first image in your export group), so you can adjust the parameters of the watermark precisely.

To create a new watermark, turn on the pane by clicking on the control circle to the right of the label. Choose either a preset from the Presets menu or click on the Add Watermark button in the lower right of the pane and choose either Text or Logo from the pop-up menu. Once you've selected a type, the bottom of the pane will open with settings for the chosen option. If you change your mind, click the Cancel button to the right of the Logo or Text labels.

Using graphics-based watermarks

The Logo section of the Watermark pane lets you use either watermark files imported via the Extras Manager (see), which will be displayed in the File pop-up at the top of the Logo section, or by clicking on the Import button to the right of the menu (which will add them to the menu).

Use the Position grid at the bottom of the pane to place your watermark, and use the Size and Inset sliders to move it within the area chosen. The Opacity slider adjusts the transparency of the watermark on the final image.



The Repeat Image button will repeat the logo graphic rightward across the image from the location chosen in the Position grid. If you wish to repeat the watermark across the entire image, choose one of the sections on the left side of the Position grid.

When working with graphics-based watermarks, make sure your watermark file is sufficiently large for your usage. For example, if you want it to appear 2 inches wide on a 300-ppi image, your watermark needs to be at least 600 pixels wide. Or if you want it to appear across an entire photo—such as when posting to social media—it needs to be the same size as what you are exporting for the web, typically over 1000 pixels. Using a watermark file that is too small will create a pixelated watermark appearance. And, because most watermarks are overlays on top of an image, these files are usually PNGs with areas of transparency, although JPGs can also be used, depending on the logo.

Using text-based watermarks

When creating text-based watermarks, the Text section of the pane has an entry box for your watermark text, a font selection area, and the same Appearance and Position options found in the Logo section.

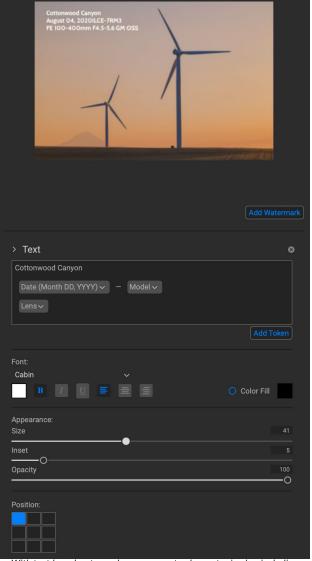
The text entry box can contain multiple lines of custom text, and has the same token-based naming options found in the Naming pane (discussed on page 71), which can be helpful when exporting informational slides or for other data-driven uses.

You can set the font from the pop-up menu, and the font color by clicking the swatch on the left side underneath the font name. The text style can be set to bold, italic or underline, and the alignment to left, center or right. If you'd like to add a background color to the text box, turn on the Color Fill button on the right side of the pane.

Use the Position grid at the bottom of the pane to place your watermark, and use the Size and Inset sliders to move it within the area chosen. The Opacity slider adjusts the transparency of the watermark on the final image.

Saving watermark presets

Both watermark types can be saved as a preset for re-use later. To save a preset, adjust your Logo or Text settings as desired, and choose Save New Preset from the Presets menu. If you wish to adjust an existing preset at a later time—with a new logo file, for example—choose the appropriate preset from the Presets menu, make your changes, and



With text-based watermarks, you can not only create simple, single-line watermarks showcasing your business, but you can also create data-driven watermarks (using tokens) for presentations and the like.

choose Update Preset with Current Settings from the Presets menu. You can also rename and delete watermark presets from this menu.

Exporting and Export Presets

The Export window has been designed to offer as much or as little complexity as you would like. At its simplest, you can set the Destination and the File Type to your desired settings, leave all of the other panes alone, and click Export. Sky Swap will remember your last Export setting—including anything you did in the Naming pane—the next time you export, so you don't have to worry about which settings need to be set, and which ones don't. You can use the Show/Hide buttons in the title bar of each pane of the Export Options panel to display only those settings you want to see.

Once you have your settings the way you'd like, you can save them as a preset by clicking the Save Preset option in the Preset panel on the left. Then, when you click that item in the Preset panel, the Export Options will be set to the specifications of that preset.

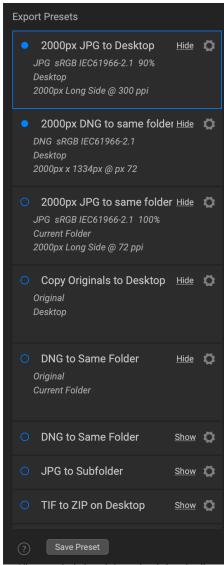
The Export Presets panel will display a list of the currently available presets. If you have selected a preset, it will have a selection box (in the app's accent color) around it, and if the control circle is filled, the preset is on, meaning that clicking the Export button will export using that preset. If you don't wish to use a preset, click the control circles off on all of the presets in the list.

By default, each preset will have up to three lines of explanatory text underneath the preset name, displaying the file type—DNG, PSD, TIFF—and the Destination information. This can be helpful when you're scanning presets for a specific destination, but you can also collapse the preset to its title by clicking the Hide button in the title bar.

When you change the settings for a selected preset, Sky Swap will ask you if you wish to update the preset with the new settings either when you click the Export button to start the process, or when you switch to another preset with the Export window.

It is possible to export more than one preset at a time. Every preset in the Presets panel that has the control circle set to On (filled) will be included in the export exerction. This might be helpful to create

be included in the export operation. This might be helpful to create backups on another disk, for example, or to build proxy versions for use while the original is being edited.

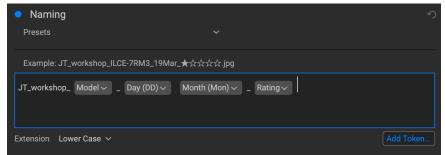


All presets include an informational view that lists the export file type, the destination folder, and resize information. If you don't wish to see that, click the Hide button to collapse the view to just the preset title.

About Sky Swap's File-Naming Tokens

When using the Naming option in the Export window, Sky Swap includes a broad set of tokens that you can use as part of the strings to build complex file names, in conjunction with any custom text you wish to enter. These tokens draw on image metadata, including filenames, dates taken, and EXIF and IPTC metadata fields, and can be used in any number of combinations.

To build a rename sequence using tokens, click on the Add Token button, and choose the appropriate token from the pop-up menu. The token will be added as a shaded item in the text field, and the Example item above the text field will show a sample of a renamed file using the current set of tokens and custom text. To change an existing token, click on the down arrow on the right of the token, which will display the full set of tokens. To delete a token, double-click on it and press the Delete key.



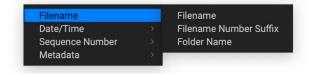
You can use a combination of tokens and custom text to rename files to exacting specifications, all drawn from file information, metadata and more.

Custom text can be added anywhere in the entry field. You can click the cursor at the beginning or end of a token (or in-between tokens) and add spaces, dashes, underscores and any other text you wish to be included in each renamed file.

There are four categories of tokens, each with their own set of options: Filename, Date/Time, Sequence, and Metadata. A description of each is listed below.

FILENAME

The Filename tokens use information from the filename or the enclosing folder that the file resides in. There are three options, Filename, which adds the current filename of the file being worked on; Filename Number Suffix, which takes the index (shot) number

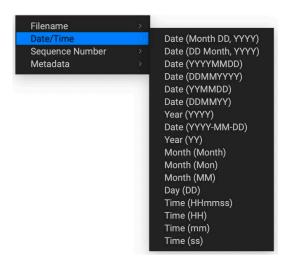


from the original raw file, if available; and Folder Name, which grabs the name of the folder in which the renamed (or imported) file resides.

DATE/TIME

This submenu consists of 17 combinations of date and time data, as taken from the image's metadata. There are prebuilt date and time combinations (20220104, for example, for a year-month-date token) in the list, or your can build your own combinations out of the subtokens listed in this menu.

Year data can be presented in either 4- or 2-digit numbers, and Month data can be presented in month number, full name, or 3-letter abbreviations.

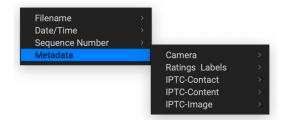


SEQUENCE NUMBER

The Sequence Number tokens come into play when exporting, importing or renaming a group of image files, and, as such is not applicable within Sky Swap.

METADATA

This submenu has five items, each with its own submenu. All of the items create the chosen token based on the embedded metadata for each image being renamed, imported or exported. The specific text pulled from the Camera and IPTC tokens will be visible in the Metadata pane's EXIF (for camera-specific data) and IPTC (for IPTC data) tabs. The Ratings and Labels tokens are taken from any you have applied in Sky Swap.



NOTE: If there is no information in the specified Metadata token, it will be ignored during processing.

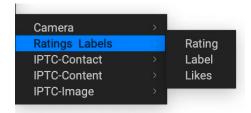
Camera

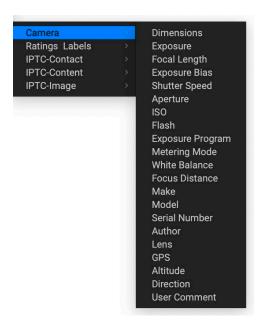
The Camera submenu includes 21 items, all of which are directly taken from an image's EXIF data. Not all cameras capture all of the items listed, but most of them save essential items like exposure information, focal length and more.

Ratings and Labels

The three tokens in the Ratings and Labels submenu (shown below) pull information from any rating, label and like information stored with images opened in Sky Swap.

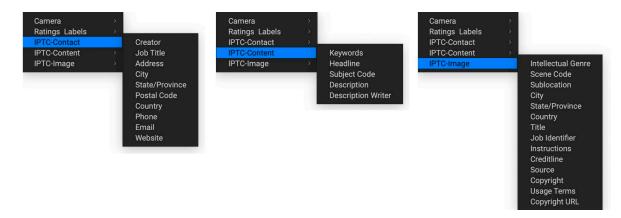
The Rating token will add the number of stars an image is rated, while the Label token will add any color label information (red, yellow, green, blue, purple), and the Likes token will add Liked, Not Set, or Disliked to the image name.





IPTC Metadata Tokens

IPTC (International Press Telecommunications Council) is an industry-standard metadata format, and offers much more detailed metadata information than EXIF. It historically has been used by journalists and stock photographers to catalog and tag photos, as well as add copyright information, captions, and other data. There are nearly 30 different tokens in the IPTC metadata submenus, which are divided into Contact, Content, and Image. You can use these tokens if you know that an imported file has stored IPTC Metadata information.

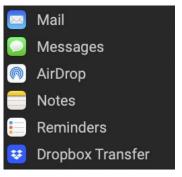


Other Sharing Options (macOS Only)

The macOS version of Sky Swap AI includes other photo-sharing options, including:

- **Mail:** Creates a new email message in Apple Mail with the shared photo.
- **AirDrop:** Uses Apple's AirDrop networking feature to share with local macOS or iOS devices.
- Notes: Adds the shared photo to Apple's Notes app. You can choose to create a new note, or add the photo to an existing note.
- Messages: Shares photo to Apple's Messages app.
- Add to Photos: Adds the photo to Apple's Photos app.
- Reminders: Adds the photo to a new reminder.
- Dropbox Transfer: Initiates a Dropbox Transfer operation, if Dropbox is installed on your computer.

All of the sharing options perform the same operation: Sky Swap exports a full-size JPEG of the selected photo and shares it with the selected target from the list.



PART 7: ON1 SKY SWAP AI REFERENCE MENUS, PREFERENCES

EDIT MENUS

ON1 Sky Swap AI (macOS Only)

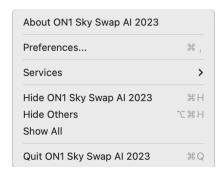
- About ON1 Sky Swap Al: Opens the About box and displays your version number. (This is in the Help menu on Windows)
- **Preferences:** Opens the preferences dialog. (In the Edit menu on Windows)
- Quit ON1 Sky Swap AI: Quits ON1 Sky Swap AI.

File Menu

- Done: Saves your edited photo and quits Sky Swap.
- Cancel: Cancels the current editing operation.
- Quick Export: Saves the current image in Photoshop, TIFF,
 JPEG or PNG format.
- Export: Opens the Export window.
- **Export with Previous:** Exports the current selection with the last-used Export setting, bypassing the Export window.
- Print: Opens up the print dialog box.
- Manage Extras: Opens the Extras Manager window.

Edit Menu

- **Undo**: Removes the last file operation.
- **Redo**: Redoes the undo operation. This is only available if the last thing you did was an undo.
- Cut: Cuts the currently selected item.
- Copy: Copies the currently selected item.
- **Paste**: Pastes (copies) the items in the clipboard to the current location.
- **Revert:** Reverts to the original state of the current photo.
- Keyboard Shortcuts: Lets you customize the hotkeys used inside Sky Swap AI.
- Preferences (Windows): Opens the Preferences dialog.



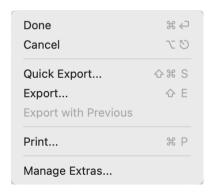


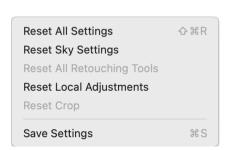


Photo Menu

- Rotate 90 Degrees CW: Rotates photo clockwise 90°
- Rotate 90 Degrees CCW: Rotates photo counterclockwise 90°

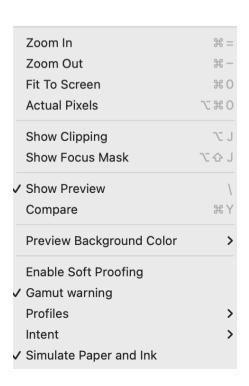
Settings Menu

- **Reset All Settings**: Resets all of the settings applied to a photo, returning it to the state it was when opened.
- Reset Sky Settings: Resets settings applied in Sky Swap.
- Reset All Retouching Tools: Resets retouching applied in Edit.
- **Reset Local Adjustments**: Removes all local adjustment layers added to a photo.
- **Reset Crop**: Resets any cropping made to a photo.
- Save Settings: Saves the current state of your edits, in case of crash.



View Menu

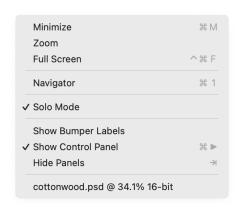
- **Zoom In**: Zooms the preview window in one increment. This will make the preview image larger.
- **Zoom Out**: Zooms the preview window out one increment. This will make the preview images smaller.
- **Fit to Screen**: This sets the preview image so that the entire image is on screen at once. Think of this as an overview of the entire image. This is the setting you will use most of the time.
- **Actual Pixels**: This sets the preview image so that it zooms to actual pixels or 1:1 also called 100%.
- **Show Clipping**: Shows the clipping overlay view, displaying the pure white or black pixels in the current image.
- **Show Focus Mask:** Displays a green overlay on those portions of the current image that are in focus.
- **Show Preview**: Toggle to enable or disable the preview.
- **Compare**: Displays an adjustable split-screen view of the current image, with the Before view on the left side of the preview area.
- Preview Background Color: Lets you set the background color options.
- **Enable Soft Proofing**: Turns on soft proofing for the current image.
- **Gamut warning**: Displays colors that the printer can't reproduce with a red overlay.
- **Profiles**: Displays a list of installed printer and display profiles; choosing a profile will apply soft proofing for that profile's paper type.



- **Intent**: Lets you switch between perceptual or relative rendering intent for the current image.
- Simulate Paper and Ink: When turned on, Sky Swap AI will set the white point and black point of the display to account for that of the chosen profile.

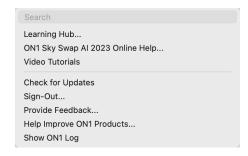
Window

- Minimize: Minimizes your screen.
- Zoom: Zooms your window to full-size.
- Full Screen: Toggles full-screen mode (hides menus).
- **Navigator**: Hides or shows the Navigator, Loupe, Histogram and Info pane.
- Solo Mode: Keeps only one pane open at a time.
- **Show Bumper Labels:** Hides/reveals the text labels in the module selector.
- Show Control Panel: Hides/shows the Control Panel.
- Hide Panels: Hides or shows all Panels.
- Document Name: Shows the name, zoom level and bit depth of the open image.



Help

- Search: Searches the menu options (macOS only).
- Learning Hub: Launches the Learning Hub inside Sky Swap Al.
- **ON1 Sky Swap Al Online Help**: Opens ON1.com support page in your default web browser.
- **Video Tutorials**: Opens ON1.com product training page in your default web browser.
- **Check for Updates**: Checks with the ON1 update server to see if you are running the current version. If there is a newer version, you will be notified and be walked through the update process.
- **Sign-In/Sign-Out**: Uses your ON1 account login information to authenticate your copy of ON1 Sky Swap AI.
- **Provide Feedback**: Opens the default web browser and goes to the feedback page of the ON1 website.
- About ON1 Sky Swap AI (Windows Only): Opens the about box with the version number displayed.
- Help Improve ON1 Products: Opens the Improve ON1 Products dialog.
- **Show ON1 Log**: Diagnostic tool that can help ON1 support when you're having issues with ON1 Sky Swap Al.



PREFERENCES

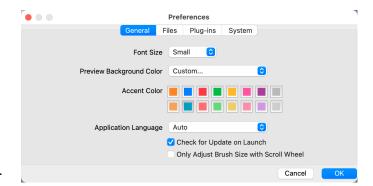
ON1 Sky Swap AI has a number of system-wide settings that you can set via the Preferences window. To access Preferences, either click on the gear icon at the lower left side of the screen, or choose Preferences from the ON1 Sky Swap AI menu (macOS) or the Edit menu in Windows. The Preferences window has four tabs: General, Files, Plug-Ins, and System.

GENERAL SETTINGS

The General settings tab adjusts basic settings for the Sky Swap AI workspace, including background color, scrolling controls and more.

Font Size

Sets the size of the text in the basic Sky Swap Al workspace (labels, panes and pop-up menus) to one of three general sizes: Small, Medium, Large.



NOTE: When changing the font size, you must quit and restart Sky Swap for the the new setting to take effect.

Preview Background Color

You may select the color of the background behind the preview image. The default is black. The custom option has a color picker where you can select your own background color.

Accent Color

Lets you choose the display color for highlighted items (folders, tabs, selections) in the Sky Swap Al interface.

Application Language

Lets you change the display language for Sky Swap AI. Auto will use your system's default language (if available).

Check for Update on Launch

Enabled by default, the product will communicate with ON1's software update server when you start ON1 Photo; if an update is available it will prompt you to download or skip.

Only Adjust Brush Size with Scroll Wheel

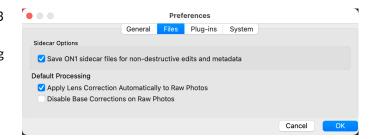
Turning on this option overrides Effects' default behavior, setting the app so that your mouse's scroll wheel will only change the size of a brush (when an appropriate tool is selected).

When not checked, Effects uses the scroll wheel to scroll, zoom, pan and adjust brush size and feathering, depending upon the modifier keys being pressed. See page 18 for specifics on the default settings for scroll wheel options in Effects.

FILES

Sidecar Options

Click this box if you wish ON1 Sky Swap AI 2023 to create ON1-specific 'sidecar' files when you are editing images. This is helpful if you are using multiple computers (on an external hard drive, for example), and want your edits to be visible on each machine when you reopen a retouched photo.



Default Processing

Apply Lens Correction Automatically will use lens correction information automatically on any raw photo opened in ON1 Sky Swap. Choosing Disable Base Corrections on Raw Files will turn off the basic raw-file correction settings. This can be helpful for scientific/technical photography, time-lapse, and other specialized applications.

PLUG-INS

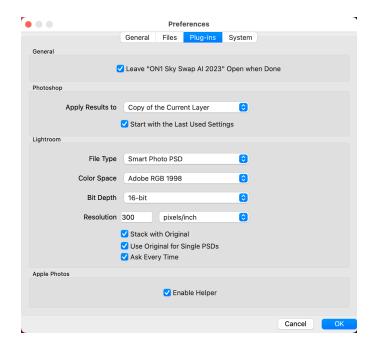
Plug-Ins is specific to using Sky Swap AI as a plug-in Photoshop or Lightroom, and lets you set up conditions when opening files from these apps.

General

Checking the "Leave 'ON1 Sky Swap AI 2023' option when done will keep the app open after you've edited an image via a plugin.

Photoshop

 Apply Results to: When editing in Photoshop you can choose to have your effect added to a copy of your current layer or to the current layer. You can also choose to start with the last used settings when launching Sky Swap AI.



Lightroom

This preference lets you choose the specific options for files opened via the Plug-In Extras menu in Lightroom:

- **File Type**: The file type drop-down menu determines what type of file will be created. The default is PSD, which maintains layers. You can also select ON1's Smart Photo format to preserve re-editability from within Lightroom, and JPG or TIFF if you prefer those formats. The last option is same as source, which maintains the file type of the original file, except for raw files, which are saved as PSDs.
- Color Space: Sets the working color space; Adobe RGB, sRGB or ProPhoto RGB.
- Bit Depth: Sets the file bit depth, either 8-bit or 16-bit per pixel.
- Resolution: The resolution drop-down menu determines the resolution of the file.
- Stack with Original: When enabled, the new image is stacked with the original image.
- **Use Original for Single PSDs**: When enabled, if you select a single PSD file, it will be edited directly, rather than having a copy made.
- Ask Every Time: Presents these export options whenever you chose an item from the Plug-In Extras submenu. Turning this option off will bypass the file-export window, using the options in the Plug-In Preferences window every time.

NOTE: For detailed information about the Smart Photo format and reeditability options from within Lightroom, see "Working with Smart Photos" on page 11.

Apple Photos (macOS only)

• The Enable Helper option works to ensure a smooth connection between Apple Photos and Sky Swap Al. It should remain on by default.

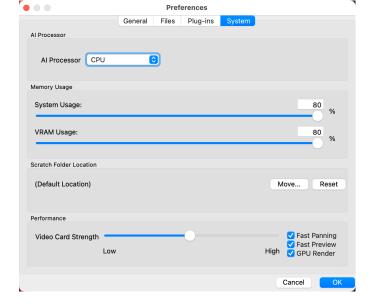
SYSTEM

The System tab displays performance-related characteristics of Sky Swap AI.

Al processor

Sets the processing option for Al-based operations. By default, the option is set to Auto, which uses the best combination of system resources to process tasks. If you are noticing some performance issues with Sky Swap Al, you can try setting the options to either your CPU or your graphics card.

Memory Usage



- **System Usage:** Specifies the amount of RAM that is used by the application. The maximum (default value) is 80%.
- **VRAM Usage:** Specifies the amount of video memory (VRAM) that is used by the application. The maximum (default) is 80%.

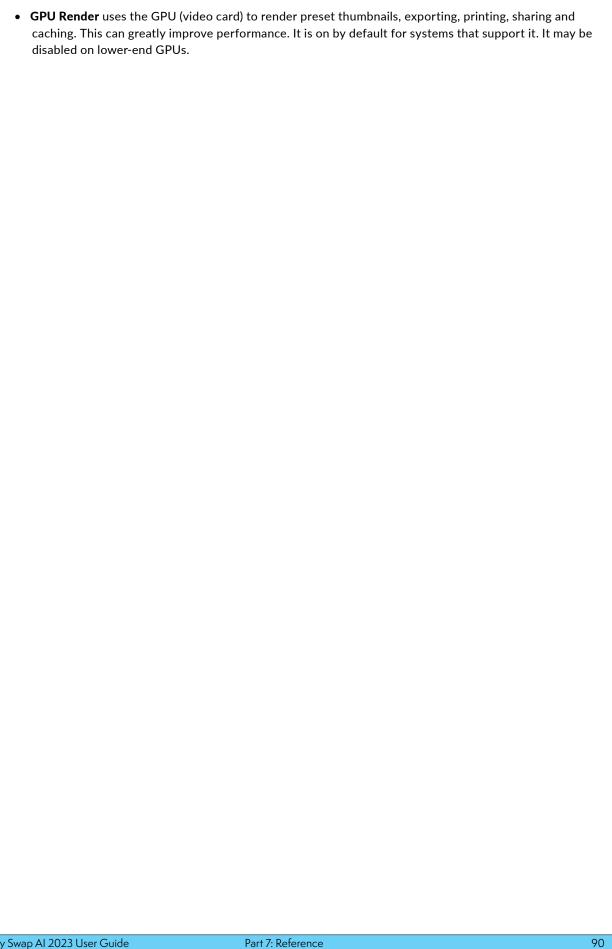
Scratch Folder Location

This setting lets you move or reset your memory cache, which helps speed editing operations while you're running Sky Swap AI. This is helpful if your system drive has limited space and you wish to use a faster external drive as a cache. This cache information is purged each time you quit the application.

Performance

The Performance section is designed to help you optimize Sky Swap AI for your specific setup. The adjustments you can make are as follows:

- Video Card Strength balances updating the preview of the image and the movement of brushes and gradient tool overlays. If your brush is sticking try turning it down. If you have a high-end video card try turning it up for faster preview updating.
- **Fast Panning** reduces the preview quality (makes it less sharp) while panning the photo to improve performance of panning.
- Fast Preview reduces the preview quality (makes it less sharp) while painting or making other adjustments to improve paintbrush performance. This is off if you have a high-end video card.





ON1 Sky Swap AI 2023 User Guide ©2016-2023 ON1 Inc.

Revision 1.5, June 2023 (Version 17.5.0)

(Added new Refine Brush options and mouse scroll wheel enhancements.)

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