

Capture NX-D Reference Manual for Version 1.4.5

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Nikon

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Z Save where otherwise stated, illustrations are from Windows 10. Default camera and software settings are assumed.

🖉 The links at the top of each page can be used for chapter navigation. Click 🚮 to return to this page.

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Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
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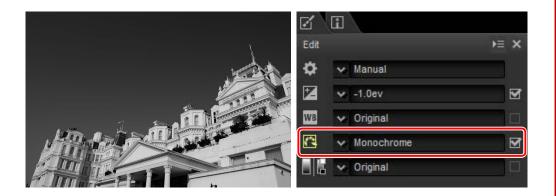
What Capture NX-D Can Do for You

Capture NX-D lets you fine-tune pictures by, for example, adjusting brightness and hue, and can also be used to edit RAW images taken with Nikon digital cameras and save them in other formats.

Fine-Tune Pictures

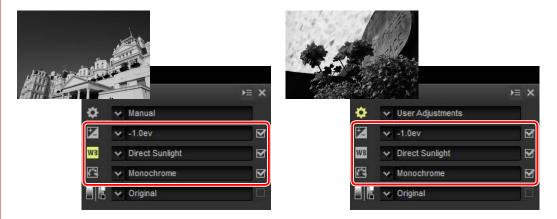
With Capture NX-D, it's easy to adjust such settings as brightness and white balance (page 18). Certain settings, such as exposure compensation and Picture Controls, are available only with RAW images.





Copy Adjustments

Save adjustments and apply them to other images (page 33) or copy them to other computers (page 35). Saved adjustments can be applied to multiple images using batch processing (page 40).



Save Pictures in Other Formats

Fine-tuned or processed RAW (NEF/NRW) images can be saved in JPEG or TIFF formats for use in other applications (page 36).



Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide 🔥 🔒
					What Capture NX-D Can Do for You
	age adjustments in a sepa	arate "sidecar" file that is up	the original picture of	settings are stored separate an be restored at any time v	ly from the original image data, vith no drop in quality.
dated automatically as so	ettings are changed.				

Image Adjustments

Image data

Image adjustments are stored in a "NKSC_PARAM" folder in the same folder as the original image. All changes will be lost if this folder or the image adjustment file is deleted; similarly, because the image and the image adjustment file are linked via the file name, changes will be lost or applied to another image if the image adjustment file is renamed.

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Original
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Picture Control settings

Exposure compensation

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When opening images modified in ViewNX-i, Capture NX-D also reads the associated settings files and preserves the adjustments they contain.





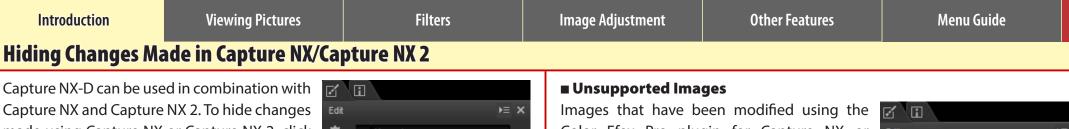


Fine-tuning preview

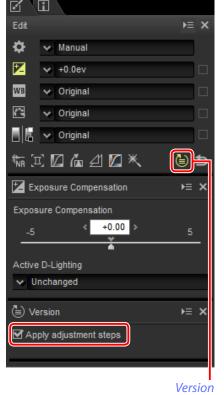
When files are converted to JPEG or TIFF, the changes are applied to the image as it is saved to create a new, modified image data file.







made using Capture NX or Capture NX 2, click the button in the edit palette (page 7) to display the Version tool and deselect Apply adjustment steps. This applies only to modifications made using the tools in the "Enhancement Steps" (Capture NX) or "Adjust" section (Capture NX 2); images modified using these tools are indicated by sicons in the thumbnail list.



Apply History Setting

The image below has been modified using the **Picture Control** tool in the "Develop" section and the **Gaussian Blur** tool in the "Adjust" section of Capture NX 2. Deselecting **Apply adjustment steps** in Capture NX-D hides only the effects of the "Gaussian Blur" tool.

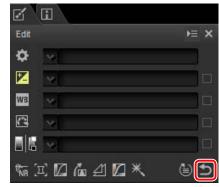


Apply adjustment steps:



Apply adjustment steps:

Images that have been modified using the Color Efex Pro plugin for Capture NX or Capture NX 2 can be fine-tuned in Capture NX-D by first resetting all changes using the revert button in the edit palette (page 7). Pictures that have been modified using Color Efex Pro are indicated by Est icons in the thumbnail list.



Revert button

🖉 RAW (NEF/NRW) Images

Changes made to RAW (NEF/NRW) images in Capture NX-D, including those made using the revert button, are not reflected in Capture NX or Capture NX 2. RAW (NEF/NRW) images opened in Capture NX or Capture NX 2 will be restored to the state they were in when they were last saved in these applications, regardless of any changes made in the interim using Capture NX-D.

NEF Conversion

JPEG or TIFF images converted to NEF in Capture NX or Capture NX 2 are treated as JPEG or TIFF images in Capture NX-D and can not be modified using options such as exposure compensation (page 20) and white balance (page 21) that apply only to RAW (NEF/NRW) images.

Introduction

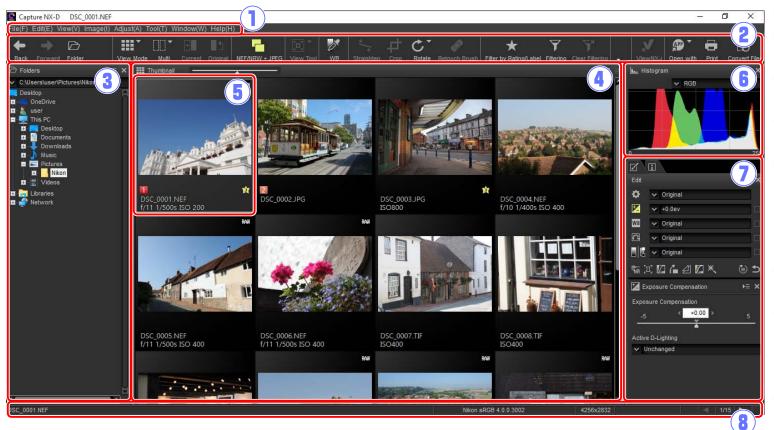
Viewing Pictures

Filters

Image Adjustment



The Capture NX-D Window



(1) Menu bar: Access the menus (page 9).

- (2) **Toolbar**: Choose a view and access image adjustment tools (page 8).
- (3) **Folder palette**: Select a folder to display its contents in the image area (page 6).
- (4) **Image area**: View the images in the current folder.
- (5) Selected image: Selected images are highlighted in gray, with images that have been modified indicated by a **m** icon at the top left corner of the thumbnail. Double-click to preview (page 10).
- (6) **Histogram palette**: View the tone distribution for the selected image (page 6).
- (7) Edit/metadata palettes: Fine-tune images using the tools in the edit palette or switch to the metadata palette to view image information (page 7).
- (8) **Status bar**: View information on the selected image (page 9).

The Navigation Palette

A navigation (bird's eye) palette (page 6) appears when a preview is displayed by double-clicking a thumbnail in the image area.



Viewing Pictures

Filters

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D Folders

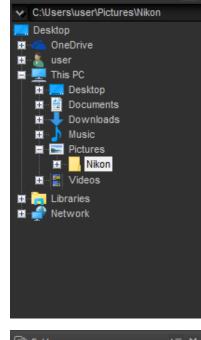


Palettes

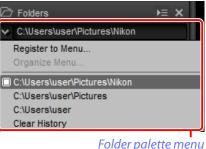
Capture NX-D offers the following palettes.

The Folder Palette

The folder palette lists the folders in the computer's storage system. Click a folder to view the images it contains in the image area or preview display.



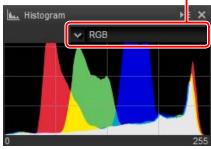
The folder palette menu gives access to recent folders. Frequently-used folders can be added to and then accessed from this menu.



The Histogram Palette

The histogram palette provides a constantlyupdated histogram for the selected thumbnail or the image in the preview display. The histogram shows the tone distribution for the color channel selected in the channel menu. Choose **RGB** to view overlapping distributions for the red, green, and blue channels: tone ranges in which the distributions for red and green overlap are shown in *yellow*, those in which red and blue overlap in *magenta*, those in which green and blue overlap in *cyan*, and those in which all three colors overlap in *white*.

Channel menu



The Navigation (Bird's Eye) Palette

The navigation palette is displayed above the folder palette when you double-click a thumbnail to display a preview. To zoom the preview in and out, click the 💽 and 💽 buttons, use the slider, or enter the desired zoom ratio in the text box.

When the preview is zoomed in, the frame in the navigation palette shows the area currently displayed. Drag the frame to view other areas of the preview.





🖉 Palette Menus

To access the palette menu, click the triangle (E) at the top right corner of the palette. Select **Undock** to open the palette in a floating window that can be moved freely about the display.

Viewing Pictures

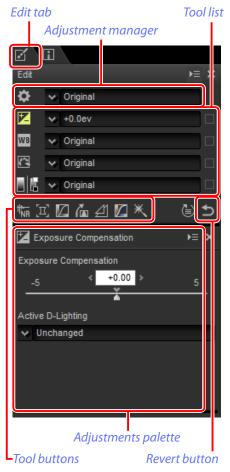
Filters

Image Adjustment



The Edit Palette

Use the tools in the edit palette to adjust the image currently selected or previewed in the image area. The tool list (page 18) offers Exposure Compensation, White Balance, Picture Control, and Tone/Tone (Detail) tools that can be accessed via pull-down menus or by clicking the tool icon and adjusting settings in the adjustments palette (page 18). Additional tools can be accessed using the tool buttons (page 19) at the bottom of the palette. The adjustment manager tool (page 19) can be used to copy adjustments to other images or save current settings for later use. To reset all tools and restore the image to the state it was in when first opened in Capture NX-D, click the revert button (note that any changes made to JPEG and TIFF images in other applications since they were last opened in Capture NX-D will not be reset).



The Metadata Palette

The metadata palette lists information on the Metadata tab

image currently selected or previewed in the image area, including exposure, the model of camera used to record the picture, and the date and time of recording. The metadata palette can be displayed in the position normally occupied by the folder palette (page 6) by selecting **Dock to Left** in the palette menu.

Metadata Netadata Item Information File Info 1 File Info 1 File: DSC_0001.NEF Date Created: 7/15/2015 8:59:57 AM Date Modified: 11/8/2013 2:14:10 AM File Size: 11.2 MB Image Size: L (4256 x 2832), FX File Info 2 Date Shot: Date Shot: 11/8/2013 18:14:09.45 Time Zone an UTC, DST:OFF Image Quality: Lossless Compressed RAV Camera Info Device: Device: Nikon D5 Lens: 28-70mm f/2.8D Focal Length: 28mm Focus Mode: AF-S AF-Area Mode: Single VR: AF Fine Tune: ON(0) Exposure Aperture: Aperture: f/11 Shutter Speed 1/500s Sons				
Item Information File Info 1 File Info 1 File: DSC_0001.NEF Date Created: 7/15/2015 8:59:57 AM Date Modified: 11/8/2013 2:14:10 AM File Size: 11.2 MB Image Size: L (4256 x 2832), FX File Info 2 Date Shot: Date Shot: 11/8/2013 18:14:09.45 Time Zone an UTC, DST:OFF Image Quality: Lossless Compressed RAV Camera Info Device: Nikon D5 Lens: Lens: 28-70mm f/2.8D Focal Length: 28mm Focus Mode: AF-S AF-Area Mode: Single VR: AF Fine Tune: ON(0) Exposure Aperture: Aperture: f/11 Shutter Speed 1/500s Single				
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Date Modified: 11/8/2013 2:14:10 AM File Size: 11.2 MB Image Size: L (4256 x 2832), FX File Info 2 5 Date Shot: 11/8/2013 18:14:09.45 Time Zone an UTC, DST:OFF Image Quality: Lossless Compressed RA Camera Info 5 Device: Nikon D5 Lens: 28-70mm f/2.8D Focal Length: 28mm Focus Mode: AF-S AF-Area Mode: Single VR: AF Fine Tune: ON(0) Exposure Aperture: Aperture: f/11 Shutter Speed 1/500s 5	File:	DSC_0001.NEF		1
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Camera Info Device: Nikon D5 Lens: 28-70mm f/2.8D Focal Length: 28mm Focus Mode: AF-S AF-Area Mode:Single VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	Time Zone and	UTC, DST:OFF		1
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Lens: 28-70mm f/2.8D Focal Length: 28mm Focus Mode: AF-S AF-Area Mode:Single VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s		Camera Info		
Focal Length: 28mm Focus Mode: AF-S AF-Area Mode: Single VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	Device:	Nikon D5		
Focus Mode: AF-S AF-Area Mode:Single VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	Lens:	28-70mm f/2.8D		
AF-Area Mode: Single VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	Focal Length:	28mm		
VR: AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	Focus Mode:	AF-S		
AF Fine Tune: ON(0) Exposure Aperture: f/11 Shutter Speed 1/500s	AF-Area Mode:	Single		
Exposure Aperture: f/11 Shutter Speed 1/500s	VR:			
Aperture: f/11 Shutter Speed 1/500s	AF Fine Tune:	ON(0)		
Shutter Speed 1/500s		Exposure		
	Aperture:	f/11		
Exposure Mod Programmed Auto	Exposure Mod	Programmed Auto		
Exposure Con 0EV	Exposure Con	0EV		Ŀ

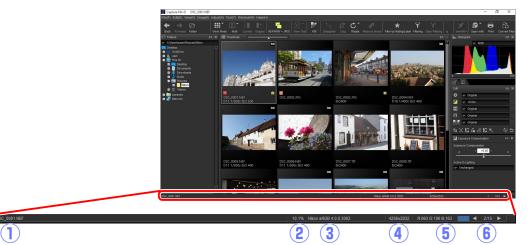
🖉 The Edit and Metadata Palettes

Use the tabs at the top left corner to switch between the edit and metadata palettes.

Introduction	Viewing Pictures	Filters		Image	Adjustment	Other Features	Menu Guide	
The Toolbar								
Use the toolbar to choo	ose a view and access image	adjustment tools.		8	J View Tool	Access the fit, image viewer, zoc	om, and hand tools.	
			X FG Strot FL X= X	9	WB		adjust white balance so that the ral gray color (gray point sample	
			255 15 ×	10 *	→ Straighten	Straighten images.		Page 30
	Barrier 025,0001.05 025,0002.05 055,0002.05 Interact 025,0002.05 00 00	s [™] DC_0004.NEF 1/10 14/05 EO 200 [™] 4 daw [™] 4 daw [™] 9 organi [™] 9 organi [™] 9 organi		0 4	🕇 Crop	Crop images.		Page 37
		C = C + C + C + C + C + C + C + C +	e d e d × ≓ 5	12	Rotate	Rotate images 90°. The directic keeping the button pressed.	on of rotation can be selected by	
	C11 1308:E0 400 C11 1308:E0 400 E0400	EC400 Per to the spatial state of the spatial stat		13 🐇	Retouch Brush	Remove dust and scratches (aut	o retouch brush).	Page 39
	┉┉ ┉ा <mark>┺</mark> │◙╹│▓│҉井ᢗ╹₡│★		■= 5	14 7	Filter by Rating/Label	Filter images by rating or label.		<u>Page 17</u>
123456		15161718 1920	21 22	15	7 Filtering	Filter images by rating, label, or o	camera settings.	Page 17
+				16	Clear Filtering	End filtering and view all images	S.	_
1 Back/Foward	Select the folder before or after the o	current folder.		17	Batch Process Status	View batch process status.		Page 40
2 D Folder	Display a dialog where you can navig	gate to and open a folder.	Page 6	18	Cancel Batch Process	Cancel batch processing.		_
3 View Mode	Choose a view mode for the image a	area.	Page 10			5 5	es in ViewNX-i. The images are dis- cluding any changes made using	
④ Multi	View images side-by-side. Choose After Images and 2 Images .	from Compare Before and	Page 13	19	ViewNX-i		FNEF/NRW (RAW) images, without	
5 Current	Apply current adjustments to the "be ence when making further modifica		Page 13	20	P Open with	Open images in an application a ing the Open With Application	and format previously selected us- on option.	Page 47
6 1 Original	Restore the "before" image to the sta ments were made.	te it was in before any adjust-	Page 13	2)	Print	Print the image currently selected	ed or previewed in the image area.	Page 42
7 NEF/NRW + JPEG	If the folder contains images shot at i + JPEG", select this option to list the		Page 10	22 E	Convert Files	Save images in JPEG or TIFF form fore the image is saved.	mat. Adjustments are applied be-	Page 36

rately.

Introduction	Viewing Pictures	Filters	Image Adjustment
The Status Bar	The Menu Ba		
View information on the	Access image adj		

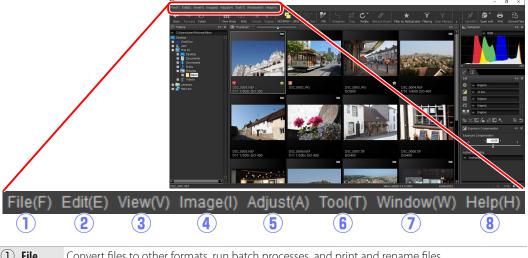


1 DSC_00	01.NEF	File name	The file name.
2 10.1%		Zoom ratio	The zoom ratio at which the preview is currently displayed.
3 Nikon sR	GB 4.0.0.3002	Color space	The color space of the image in the preview display.
4256x28	32	lmage size	The size (in pixels) of the image in the preview display.
5 R:063 G:	106 B:163	Color value	The color of the pixel under the cursor in the preview and image viewer displays.
6 2 2	/15 🕨	Position in folder	The position of the current image and the total number of images in the folder. Click e or to view other images.

u Bar

ge adjustment tools or save images in other formats.

Other Features



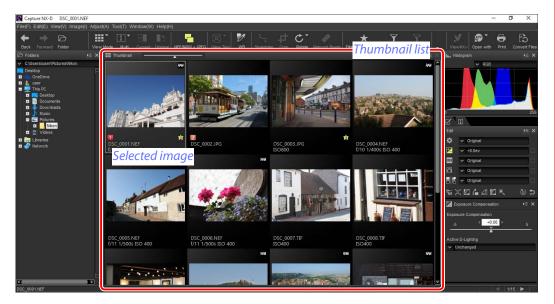
1) File	Convert files to other formats, run batch processes, and print and rename files.
2 Edit	Select, copy, paste, and delete images.
3 View	Choose a view mode, adjust zoom, and sort and select images.
④ Image	Rotate, rate, and label images or display a grid or the focus point, shadows, or highlights.
5 Adjust	Copy, paste, save, and load image adjustment settings.
6 Tool	Access image adjustment tools.
7 Window	View and hide palettes.
8 Help	View online help. In Windows, this option also displays the current software version number.



Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide		
Viewing Pictures							
Capture NX-D offers the following viewing options.			Previews				

Thumbnails

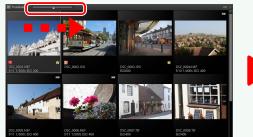
At default settings, Capture NX-D lists the images in the current folder as thumbnails. Selected images are highlighted in gray.

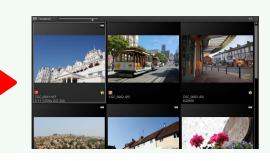


🖉 Thumbnail Size

Use the slider above the image area to choose the thumbnail size.

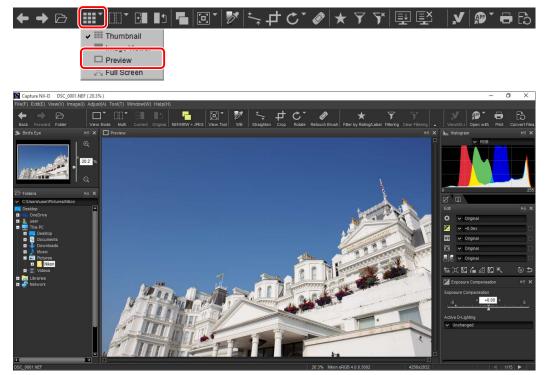
Slider





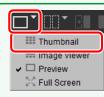
Previews

To display a preview, double-click a thumbnail, or select a thumbnail and then click the view mode button in the toolbar and select **Preview**.



Returning to the Thumbnail View

To return to the thumbnail view, click the view mode button in the toolbar and select Thumbnail.



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Z Same Name, Different Extension

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If the folder contains pairs of images with the same file names but different extensions (for example, RAW and JPEG images recorded at image quality settings of "RAW + JPEG"), only one copy of each pair will be displayed when **NEF/NRW + JPEG** is on. To view all images, turn **NEF/NRW + JPEG** off.

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Capture NX-D Reference Manual

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<text></text>					' 	Viewing Pictures
	<complex-block></complex-block>	n the toolbar and select Ima	Age Viewer.	The locations of the preview	w and thumbnail palettes can be s	elected from the palette menus.

Click thumbnails to preview other images.



Dock to Top

Dock to Left Dock to Right Close

Thumbnail palette menu

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Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide	
					Viewing Pic	ctures

Viewing Images Full Screen

To hide the menus, toolbar, and palettes and view the current image full screen, click the view mode button in the toolbar and select **Full Screen**.





Use the left and right arrow keys on the keyboard to view additional images.





Full-screen display is also available in the multi-preview view (page 13).





Compare before and after images

2 Images

To exit the full-screen display and return to the previous view, click the solution or press the **Esc** key.





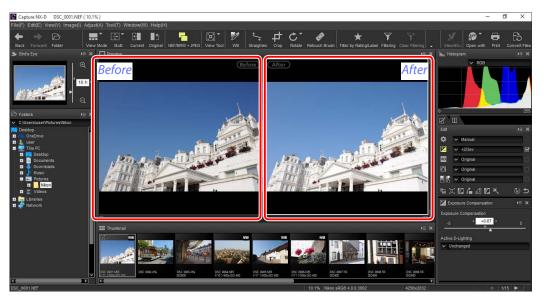
Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide			
Side-by-Side Comparison								
To compare images, use t	he "multi" tool in the toolbar.	Choose Compare Before and	d Updating the "Be	fore" Image				

After Images to compare before and after views of a single image, or 2 Images to compare multiple images side-by-side. To exit the side-by-side comparison display, select Single Preview.



Compare Before and After Images

Compare before and after views of the current image.



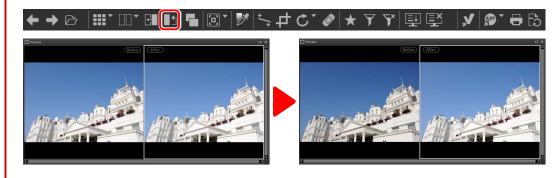
To update the "before" image to reflect current image adjustments, click the button in the toolbar. The "before" image can then be used as a reference for subsequent changes to image adjustment settings.

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Restoring the "Before" Image

To restore the "before" image to its unadjusted state, click the **b** button in the toolbar. The "before" image will be restored to the state the image was in when first opened in Capture NX-D (note that any changes made to JPEG and TIFF images in other applications since they were last opened in Capture NX-D will not be reset).



Introduction

Filters

Image Adjustment



"2 Images"

Compare images side-by-side. When either image is zoomed or scrolled, the other will be zoomed or scrolled to match.



🖉 <u>"2 Images"</u>

Computers with at least 4 GB of memory and 64-bit operating systems offer a choice of two- and four-image displays. The "2 images" feature on computers running 32-bit editions of Windows offers only a two-image display.

┅┍┫┫╕╎┓╡╔╸╵╞╱╵┊
🕀 Compare Before and After Images
✓ □□ 2 Images
88 4 Images
III Single Preview

When you click the "multi" button and select **2 Images**, the current image will be displayed on the left. To select images for display, click the desired preview box and then click a thumbnail. Only images in the same folder can be selected for side-by-side comparison.





The selected preview is highlighted in white. Image adjustments apply only to the selected preview, as do the histogram and navigation palette displays.



No adjustment



Exposure compensation set to +1.0 *EV*

Comparing Images in the Preview Display

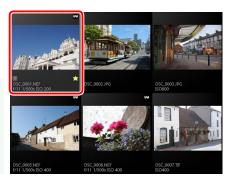
To open the images side-by-side in the preview display, click the view mode button in the toolbar and select **Preview**.







✓ To select multiple pictures, keep the Ctrl key (or on Mac computers, the ℋ/command key) pressed while clicking each image in turn. To select two pictures and all images between them, click the pictures while pressing Shift.



2 Click the 🛃 icon and choose a rating of from 🔯 (no rating) to five stars.

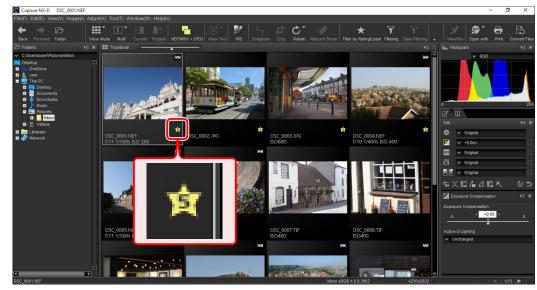


To assign the picture a three-star rating, click the third star from the left. The first three stars will be highlighted in yellow.



"Apply Ratings"

Selected files can also be rated using the Apply Ratings option in the Image menu.



Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
Labelling					
•	to sort and locate, you can a ach with its own unique col	ussign them labels of from "O or.	" Ratings are assigned in the Image menu.	using the thumbnail label io	cons or the Apply Labels option
Capture NX-D BSC_0001.NEF File(*) EditE: VewV0 Image(i) Adjust(X) Tool(*) Window(W) Help(H Box Envariad Folder Vew Mote Mut Carrent Organ Controls Cont	Image: Constraint of the state Image:	Pby RatingLabel Floring Caer Flore by RatingLabel Floring Caer Flore DSC 0004.NEF DSC 0004.NEF DSC 0004.NEF DSC 0005.TISO 400 TO 14000 ISO 4000 TO 14000 ISO 4000 TO 14000 ISO 4000 TO 14000 ISO 4000 TO	(or on Mac com pressed while clic lect two pictures click the pictures 2 Click a label (1) ;		Image: state Image: state <td< td=""></td<>
			RAM		



2 Click a label.

🖉 "Apply Labels"

Selected files can also be rated using the **Apply Labels** option in the **Image** menu.

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide	
Filtering						
click the 🔽 button in the	toolbar.	els, and photo information,	Use the ★ button in t		pictures by rating and label.	
Capture NX-D DSC_0001.NEF				∎┘ ਙ ⊡⁺ ੋ∕ ≒≠℃*∦	★▼⋎県駅↓≯∞∙ө	Ē
File(F) Edit(E) View(V) Image(I) Adjust(A) Tool(T) Window(W) Help(H) Image(I) Image(I) Image(I) Image(I) Image(I) Image(I) Image(I) Basek Forward Folder View Mode Multi Current Original Nitice	EFARW - JPEG View Tool WB Straighten Crop Rotate Retouch Bruah Fitter	by RatingLabel Fittering Clear Fittering	Click the \star butto	on to display the filter bar.		
C 2 Fooders > > > > > > > > > > > > > > > > > > >	x 55 </td <td>Image: space of the space o</td> <td></td> <td>Image: Second state sta</td> <td></td> <td></td>	Image: space of the space o		Image: Second state sta		
		Image: Second secon	2 Choose a filter or	filters from the options in	the filter bar.	
		that [1] [2] A (b) 5 [2] Coposure Compensation → Ξ Exposure Compensation → Ξ -5 < 0.02 /> 5 Active D-Lighting ✓ Unchanged] E 1 - E 5 - E 7 8 9 E	╡ ╡ ┙ び び ★ ★ ★ ☆ ★	
A dialog will be displaye	ed where you can select	0.3002 4255/2832 ≪ 10 (15) ►		cting ratings of three and five star	s in the selected range will be displa s displays pictures with ratings of th	
filters. Only pictures that selected criteria will appe		Filtering Criteria		at match at least one of teria will appear in the		THE REPORT
Filters The options for the Model , For F Number , and ISO Sensitivit found in the images in the cur	y filters are restricted to values	Clear All OK Cancel				
			Viewing All Pictures To cancel filtering and disp	lay all pictures in the current fold	er, click the 🍸 button in the toolbar	í.
				Ŋ₽IŢ\$	★▼¶₽₽₽↓₽₽₽	Ē

Viewing Pictures

Filters

Tool list



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The Edit Palette

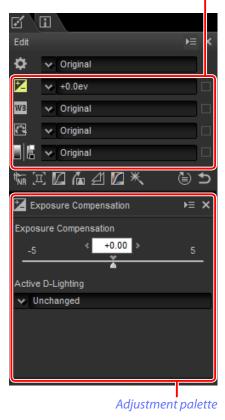
Most image adjustments are performed using the edit palette, which consists of a tool list, an adjustments palette, and tool buttons.

The Tool List

The tool list contains the items listed below. All but Tone/Tone (Detail) apply exclusively to RAW (NEF/NRW) images.

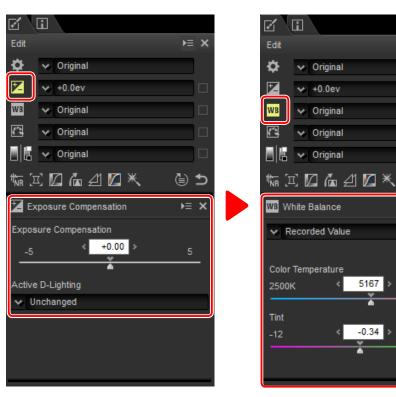
Exposure Compensation	<u>Page 20</u>
WB White Balance	Page 21
Picture Control	<u>Page 22</u>
Tone/Tone (Detail)	Page 24

Settings for these tools can be selected from the pull-down menus. Selecting Original restores settings to the values in effect when the image was first opened in Capture NX-D. At other settings, a check () appears in the box to the right of the pull-down menu, and changes can be hidden by removing the check from the box (



The Adjustment Palette

Use the adjustment palette to make detailed adjustments. Clicking a tool button or an icon in the tool list displays settings for the selected item.

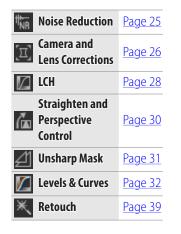


Tools that have been modified using the adjustment palette are identified by the label Manual in the tool list pull-down menus.

Filters

Tool Buttons

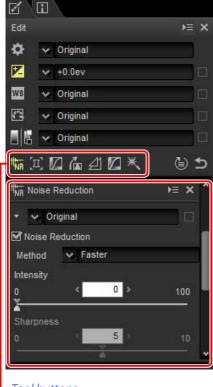
The following tools can be accessed using the tool buttons at the bottom of the edit palette. Note that some of these tools can be used only with RAW (NEF/NRW) images; for information, see the section for each tool.



These tools are accessed by clicking the buttons and adjusting settings in the adjustment palette. The buttons for tools that have been modified from default values are highlighted in yellow (e.g., M).

The Revert Button

Click the revert ("Revert to Original State") button to reset all tools and restore the image to the state it was in when first opened in Capture NX-D (note that any changes made to JPEG and TIFF images in other applications since they were last opened in Capture NX-D will not be reset).



Tool buttons

V Original

V Original

✓ Original

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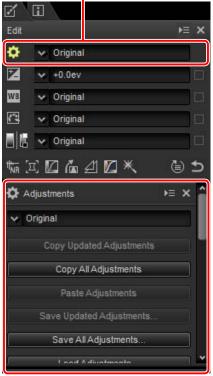
Revert button

WB

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The Adjustment Manager Tool

Use the adjustment manager tool to copy adjustments to other images or save current settings for later use (page 34).



Fine-Tuning Multiple Images

Image adjustments apply simultaneously to all the images currently selected in the thumbnail list.



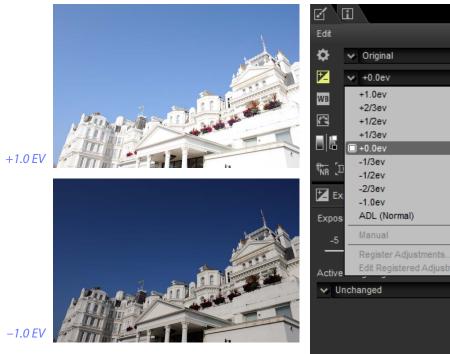
Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide			
Exposure Compens	Exposure Compensation (RAW Images)							
Adjust overall exposure, or darker.	making images lighter		incremented in step	n +5.0 and -5.0 EV, os of 0.01 EV, use the tion control in the image	Exposure Compensation Exposure Compensation <u>-5</u> Active D-Lighting	>≡ × 5		

The pull-down menu in the tool list can be used to choose from values between +1.0 and -1.0 EV.

V Original

V Original

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The image adjustment palette also offers an **Active D-Lighting** menu that can be used to bring out details in highlights and shadows.





V Unchanged



Extra high

Active D-Lighting

Active D-Lighting is available only with RAW images taken using cameras that support Active D-Lighting.

Viewing Pictures

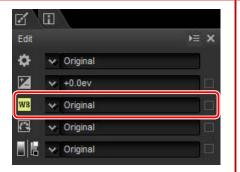
Filters

Image Adjustment

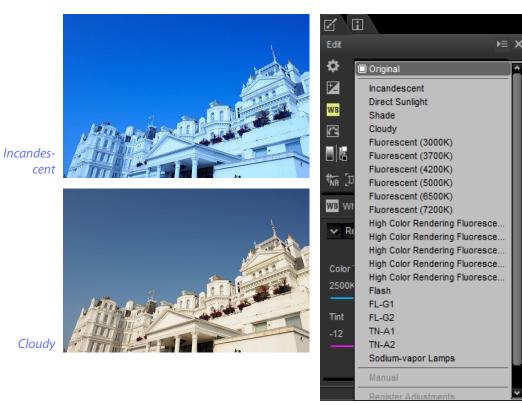


White Balance (RAW Images)

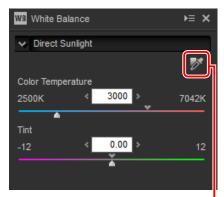
Adjust white balance.



The pull-down menu in the tool list offers a choice of preset values.



White balance can be fine-tuned using the **Color Temperature** and **Tint** controls in the image adjustment palette. **Tint** can be set to values between -12 and +12: choose lower values for less green and more magenta, higher values for the opposite effect. The range of values available for **Color Temperature** vary with the option selected for white balance.



Gray point sample tool

White balance can also be set by sampling the image: click the **W** (**Gray Point Sample Tool**) button and click anywhere in the image to sample a single pixel, or drag the cursor over the image to use the average color value for the selected area. White balance for the entire image will be adjusted so that selected pixel or area takes on a neutral gray color.



Blue area sampled



White balance adjusted to give blues a gray cast and the overall image a "warm" cast

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
Picture Control (RA	W Images)				
Adjust Picture Control se	ettings.	t > > > Original ✓ > ✓<	 can be used to choor process, perform quid lected control, or fine Control parameters. Color Reproduction Choose one of the fol Choose one of the fol Latest Picture Control: Contikon cameras. Camera compatible: Control area that took the pice of the slider left or Control, or click Researed Control settings simulations. 	on Process lowing options: colors are processed using the clors are processed using the clores are p	Color reproduction process Image: Control Image: Control <td< td=""></td<>

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
					Picture Control (RAW Images)
 contrast, and saturation tomatically (note that A the position and size of depends on the Picture Sharpening: Control the Choose higher values Clarity: Adjust clarity (r Control or a picture ta supports the Clarity pays) Contrast: Adjust contrast for less contrast, higher trast. Brightness: Adjust brig detail in highlights and Saturation (non-monochrom idness of colors. Choo saturation, higher value) Filter Effect (monochrome only): 	ture Control parameters, i b, or select Auto to let Capt Auto produces results that the subject in the frame). W Control selected. sharpness of outlines. for more sharpening. requires Latest Picture ken with a camera that arameter). t. Choose lower values er values for more con- htness without losing d shadows. ne only): Control the viv- se lower values for less les for more saturation. Adjust hue. hy): Simulate the effects pchrome photographs.	harpening (3.00 > 9 Auto larity (0.00 > 5 Auto ontrast (0.00 > 3 Auto arightness	y, selected for pictures t a custom curve. d e I I I I I I I I I I I I I I I I I I	•	djusted if Camera compatible is ig or a Picture Control that uses
 Toning (monochrome only): monochrome photogr 	Choose the tint used in	1.5 < 0.00 > 1.5 ▲ aturation	from $A-2$ to $A+2$.		lues of Sharpening

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Auto

• Toning Saturation (monochrome only): Choose the saturation of the tint used in monochrome pictures. Does not apply to black-and-white images.

Introduction

Viewing Pictures

Filters

Image Adjustment

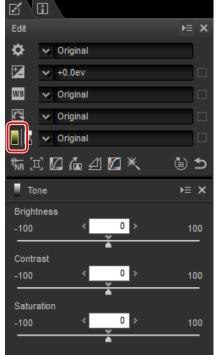
Tone/Tone (Detail)

Adjust overall brightness and contrast, or make adjustments that affect only highlights and shadows.

Tone

Clicking the icon shown in the illustration displays the following controls in the image adjustment palette:

- **Brightness**: Adjust overall brightness. Choose from values between –100 and +100: the higher the value, the brighter the result.
- **Contrast**: Adjust overall contrast. Choose from values between –100 and +100: the higher the value, the greater the contrast.
- Saturation: Control the vividness of colors. Choose from values between –100 and +100: the higher the value, the more vivid (saturated) the result.



Tone (Detail)

Clicking the icon shown in the illustration displays the following controls in the image adjustment palette:

- **Highlight Protection**: Preserve details in highlights. Values range from 0 to 100: choose higher values to reduce brightness in highlights.
- **Shadow Protection**: Preserve details in shadows. Values range from 0 to 100: choose higher values to increase brightness in shadows.
- **D-Lighting HS**: Brighten shadows in backlit or poorly-lit pictures or reduce loss of detail in highlights. Higher values reduce the contrast between shadows and highlights.

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Tone (Detail) Highlight Protection	▶ ≣ × 100
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Highlight Protection 0	
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Highlight Protection 0	100

Introduction

Viewing Pictures

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Image Adjustment

Tool Buttons

Use the tool buttons for access to tools not in the tool list.

Noise Reduction

Selecting this tool displays the following controls in the image adjustment palette:

- Noise Reduction: Enable or disable noise reduction.
- Method: Select Faster for faster processing, Better Quality or Better Quality 2013 for more accurate noise reduction. Selecting Better Quality 2013 allows separate Intensity and Sharpness adjustments for Luminance and Color (RAW images only).
- Intensity: Choose from values between 0 and 100. The higher the value, the smoother the image and the less visible the artifacts caused by image "noise".
- **Sharpness**: Choosing high values for **Intensity** may smooth the image to the point that details are lost; this can be countered by increasing **Sharpness**.
- Edge Noise Reduction (RAW images only): Make out-
- lines more distinct by reducing the occurrence of noise artifacts around edges.
- Astro Noise Reduction (RAW images only): Reduce the occurrence of randomly-spaced bright pixels in long exposures.

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✓ Better Quality 2013	
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Better Quality 2013 excels in reducing color noise at short wavelengths and over evenly-colored areas of the image.

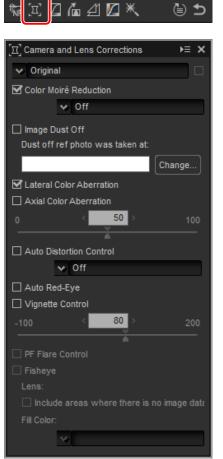
Camera and Lens Corrections

Selecting this tool displays the following controls in the image adjustment palette:

- **Color Moiré Reduction** (RAW images only): To reduce color moiré (an image artifact visible where regular patterns overlap), select this item and choose an option from the menu.
- Image Dust Off (regular- or large-size RAW images only): Compare photos with reference data recorded using the camera to mitigate the effect of dust on the low-pass filter. Click Change... to choose the NDF file containing the desired data. For more information on recording reference data, see the camera manual.
- Lateral Color Aberration: Reduce lateral color aberration (colored fringes and halos) in RAW images. At default settings, this option is not applied to JPEG and TIFF images.
- Axial Color Aberration: Reduce blurred colors caused by axial color aberration. Choose from values between 0 and 100: the higher the value, the greater the effect.
- Auto Distortion Control: This option uses the lens information recorded with photographs to

reduce the barrel distortion associated with wide-angle lenses and the pincushion distortion associated with telephoto lenses. Auto distortion control can be turned on or off from the pull-down menu; if the photograph was taken with an advanced camera with interchangeable lens fitted with a waterproof lens, you will also be offered an **On (underwater)** option for reducing pin-cushion distortion in photos taken underwater.

Auto Red-Eye: Automatically detect and remove "red-eye".



- **Vignette Control**: Adjust for variations in peripheral illumination that occur with some lenses. Choose from values between –100 and +200: the higher the value, the greater the increase in brightness at the edges of the image.
- **PF Flare Control**: Reduce ring flare, circular flare, and other flare effects caused by bright light sources in the frame.
- Fisheye: This option is available only with photos taken using AF DX Fisheye-Nikkor 10.5mm f/2.8G ED, AF Fisheye-Nikkor 16mm f/2.8D, or AF-S Fisheye NIK-KOR 8-15mm f/3.5-4.5E ED lenses.

Tool Buttons

■ Image Dust Off

Follow the steps below to perform Image Dust Off.

- 1 Click **Change...** If the current folder contains an Image Dust Off reference file, a message will be displayed; proceed to Step 2. If no message is displayed, proceed to Step 3.
- **2** To perform Image Dust Off using the file in the current folder, select **Yes**. Otherwise, select **No** and proceed to Step 3.
- **3** Select a reference file and click **OK** to perform Image Dust Off.

🖉 Image Dust Off

Dust changes position from day to day; if possible, use reference data recorded in the last 24 hours. If the camera offers image sensor cleaning, use only data recorded after the most recent cleaning, as cleaning can change the position of the dust.

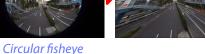
Fisheye

Select **Fisheye** to process photos taken with fisheye lenses so that they appear to have been taken with a wide-angle rectilinear lens. An area at the center of the image (circular fisheye lenses) or centered around lines drawn horizontally and vertically through the center of the image (full-frame fisheye lenses) is cropped to match the camera picture angle.



Full-frame fisheye





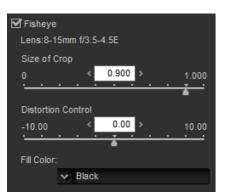
The AF DX Fisheye-Nikkor 10.5mm f/2.8G ED and AF Fisheye-Nikkor 16mm f/2.8D

If Include areas where there is no image data is selected, the image will not be cropped; instead, sections of the image will be bent. The bends contain no image data and are filled with the color selected in the **Fill color** menu.

The AF-S Fisheye NIKKOR 8-15mm f/3.5-4.5E ED

The **Size of Crop** slider controls the size of the crop. The smaller the crop, the more the center of the image will be enlarged. Choosing values closer to 1 with full-frame fisheye images will result in sections containing no image data, which are filled with the color selected in the **Fill color** menu.

The **Distortion Control** slider controls distortion. High values curve the image outward, while lower values curve it inward.



Viewing Pictures

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Master Lightness

🔲 Master Lightness

Color Lightness

Chroma

Hue

Filters

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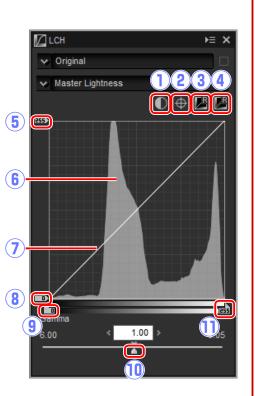
LCH

The LCH color space models color using values for lightness (a property similar but not identical to brightness or luminance), **c**hroma (color saturation), and **h**ue. These parameters can be accessed via the channel menu in the image adjustment palette when the LCH tool is selected.

Master Lightness

Adjust overall lightness without affecting chroma or hue.

- 1 **Auto Contrast**: Increase contrast by setting the white and black points to exclude a set proportion of the brightest and darkest pixels in the image.
- (2) Add Anchor Point: Click this button and then click the image in the preview palette to add a point to the curve corresponding to the lightness of the pixel under the cursor.
- (3) **Reset Current Channel**: Reset the master lightness curve to linear.
- (4) **Reset All Channel**: Reset the master lightness, color lightness, chroma, and hue curves to linear.
- (5) White-point output-level slider: Choose the maximum output level (white point).
- (6) **Histogram**: The histogram shows how the pixels in the image are distributed with respect to lightness. The horizontal axis corresponds to lightness (in the range 0–255), the vertical axis to the number of pixels.



- (7) Luminosity curve: The slope and shape of the curve determines the lightness of the image in the corresponding portion of the tone range.
- (8) Black-point output-level slider: Choose the minimum output level (black point).

/ LCH

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V Original

✓ Color Lightness

- (9) Black-point input slider: Choose the minimum (black point) input level.
- **10** Gamma: Choose the midpoint (gamma value).
- (1) White-point input slider: Choose the maximum (white point) input level.

Color Lightness

Adjust the lightness of selected colors without affecting chroma or hue. This can be used, for example, to brighten the blue of a dark skies.

- Add Anchor Point: Click this button and then click the image in the preview palette to add a point to the curve corresponding to the value for the pixel under the cursor.
- (2) **Reset Current Channel**: Reset the color lightness curve to linear.
- (3) **Reset All Channel**: Reset the master lightness, color lightness, chroma, and hue curves to linear.
- (4) Color lightness curve: Moving a point on the curve upwards makes colors in the affected portion of the color range

brighter, while moving it downward makes the affected colors darker.

(5) Width slider: Adjust the width of the curve that passes through the selected point, increasing or decreasing the range of colors affected by the change.



Viewing Pictures

Filters

Image Adjustment

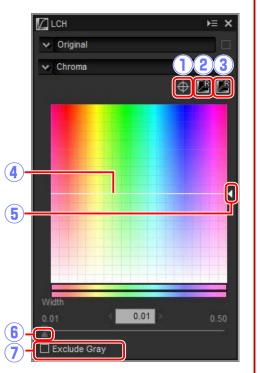
Menu Guide

Tool Buttons

■ Chroma

Increase or decrease color saturation over the entire image or a portion of the color range, making colors more or less vivid.

- (1) Add Anchor Point: Click this button and then click the image in the preview palette to add a point to the curve corresponding to the chroma of the pixel under the cursor.
- (2) **Reset Current Channel**: Reset the chroma curve to linear.
- (3) **Reset All Channel**: Reset the master lightness, color lightness, chroma, and hue curves to linear.
- (4) **Chroma curve**: Moving a point on the curve upwards makes colors in the affected portion of the color range more vivid, while moving it downward makes the affected colors less vivid (grayer).

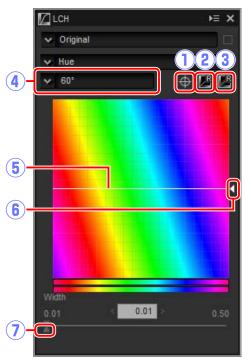


- (5) **Output slider**: Increase or decrease the saturation of all colors in the image.
- (6) Width slider: Adjust the width of the curve that passes through the selected point, increasing or decreasing the range of colors affected by the change.
- (7) Exclude Gray: Increasing chroma may make neutral colors (grays) seem oversaturated. Select this option to increase chroma without affecting grays.

∎ Hue

Map selected colors in the original (input) image to a specific range of colors in the final (output) image. One application might be to deepen the colors in a pale blue sky.

- (1) Add Anchor Point: Click this button and then click the image in the preview palette to add a point to the curve corresponding to the hue of the pixel under the cursor.
- (2) **Reset Current Channel**: Reset the hue curve **6** to linear.
- (3) **Reset All Channel**: Reset the master lightness, color lightness, chroma, and hue curves to linear.
- (4) Scale: Click to change the vertical scale from 60 ° through 120 ° to 180 ° and back again (in this case the degrees re-



fer to a 360 ° color wheel). Increasing the scale increases the range of hues visible in the display, while decreasing the scale increases precision.

- (5) **Hue curve**: Select a point on the curve that corresponds to the desired input color and drag it up or down until it intersects with the desired output color.
- (6) Output slider: Modify the hue of all colors in the image.
- (7) Width slider: Adjust the width of the curve that passes through the selected point, increasing or decreasing the range of colors affected by the change.

Tool Buttons

Straighten and Perspective Control

Straighten pictures or correct for the effects of perspective.



The Straighten and Perspective Control

Include areas without image data

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Recorded Settings

Perspective Control

Straighten

Vertical

Horizontal

Show Grid

Straighten tool

⊨ ×

Straighten

Straighten pictures by up to $\pm 10^{\circ}$. Choose lower values to rotate the picture to the left, higher values to rotate it to the right. To hide the effects of straightening, remove the check from the **Straighten** checkbox.

To straighten pictures manually, click the straighten tool in the image adjustment palette and drag the cursor parallel to a line in the preview (this option can not be used with thumbnails; page 10). The image will be rotated by up to $\pm 10^{\circ}$ to make the reference line horizontal or vertical, and the degree of rotation will be displayed in the text box in the image adjustment window. Unless **Include areas**

without image data is selected, the image will automatically be cropped to remove any empty corners.



Drag cursor parallel to reference line



Image rotated to make reference line horizontal and cropped to remove empty corners

Include Areas Without Image Data

Select this option to fill empty corners with black.



Drag cursor parallel to reference line



Image rotated to make reference line horizontal and with empty corners filled in black

Perspective Control

Correct the effect of perspective on, for example, photos taken with the camera angled up to frame a tall building. Perspective can be adjusted vertically and horizontally by up to ± 20 .



Show Grid

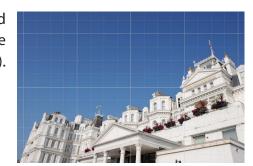




Vertical: 20

al: 20

Select this option to display a grid. The grid color and spacing can be selected in the "View"tabofthepreferences dialog (page 46).



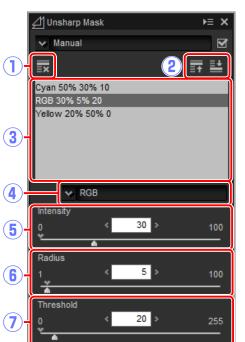
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Unsharp Mask

Increase sharpness by making edges more distinct. The contrast of edges is increased while other areas are left untouched.

- 1) **Delete**: Delete the currently-selected mask from the unsharp mask list.
- (2) Move Up/Move Down: Move the currentlyselected mask up or down in the unsharp mask list.
- (3) **Unsharp mask list**: A list of unsharp masks, identified by color channel, intensity, halo width, and threshold (e.g., "Red, 50%, 10%, 0"). Masks apply in the order listed; to change the order, use the up/ down buttons.
- (4) **Color**: Choose the color channel to which the unsharp mask applies.
- (5) Intensity: The amount edge contrast will be increased.



- (6) **Radius**: The greater the radius, the wider the edges in the sharpened image will appear.
- (7) **Threshold**: The limit at which sharpening will be applied. If the threshold is zero, sharpening will apply to all pixels in the image. Increasing the threshold increases the amount of contrast that must be present between pixels before the mask will be applied, with the result that only more distinctly contrasting edges will be affected.

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Filters

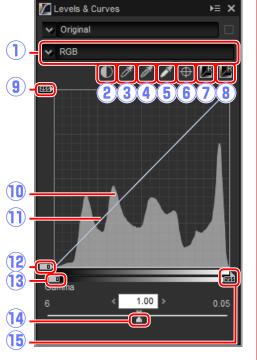
€ ⊜

Levels & Curves

Adjust contrast, tone (brightness), and color balance. Adjustments can be made over the

entire image or to specific portions of the tone range (for example, the gamut of a specific printer, monitor, or other output device), allowing enhancements to be made without sacrificing detail.

- **(1)** Channel: The current color channel.
- (2) Auto Contrast: Increase contrast by setting the white and black points to exclude a set proportion of the brightest and darkest pixels in the image, creating a curve that makes optimal use of the output tone range while preserving details in shadows and highlights.
- 3 Set Black Point: Click this button and then click the image in the preview palette to set the black point for the red, green, and blue channels to the value for the pixel under the cursor.
- (4) **Set Neutral Point**: Click this button and then click the image in the preview palette to adjust gamma for the red, green, and blue channels to equalize the RGB values for the pixel under the cursor.



- (5) **Set White Point**: Click this button and then click the image in the preview palette to set the white point for the red, green, and blue channels to the value for the pixel under the cursor.
- (6) Add Anchor Point: Click this button and then click the image in the preview area to add a point to the curve corresponding to the value of the pixel under the cursor.
- ⑦ Reset Current Channel: Reset the curve for the current channel to linear.

- (8) Reset All Channel: Reset all curves to linear.
- (9) White-point output-level slider: Choose the maximum output level (white point). Dragging the slider down lowers the brightness of the brightest pixels.
- (1) **Histogram**: The histogram shows how the pixels in the image are distributed with respect to brightness. The horizontal axis corresponds to brightness (in the range 0–255), the vertical axis to the number of pixels.
- (1) **Tone curve**: The slope and shape of the curve determines the brightness of the image in the corresponding portion of the tone range.
- (2) **Black-point output-level slider**: Choose the minimum output level (black point). Dragging the slider up increases the brightness of the darkest pixels.
- (3) **Black-point input slider**: Any pixels in the portion of the tone range to the left of the black point are output at the minimum output level. Dragging the slider to the right steepens the curve and enhances contrast but may cause loss of details in shadows.
- (14) Gamma: Dragging the slider to the left increases the brightness of mid-tones, while dragging it to the right makes mid-tones darker.
- (15) White-point input slider: Any pixels in the portion of the tone range to the right of the white point are output at the maximum output level. Dragging the slider to the left steepens the curve and enhances contrast but may cause loss of details in highlights.

Sampling the Current Channel

By default, the black point, white point, add anchor point, and auto contrast controls respectively set the black point, anchor points, white point, and contrast for all channels. To apply these controls only to the current channel, press **Ctrl** (or on Mac computers, the **option** key) while clicking the control.

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide	
Copying Adjustme	nts					
	be copied and applied to ctures taken under similar o	other pictures, speeding the conditions.		the new setting and click ple, we have named the	Register Adjustments	X Move Up
Adding Adjustments			5			Move Down Delete
Current settings can be	added to the menus in the	tool list.				Rename
settings in the adju	ustment palette. Here posure compensation	Exposure Compensation posure Compensation -5 -5 tive D-Lighting Unchanged	The new setting i	s added to the pull-down	ОК	Cancel
2 Select Register Ad pull-down menu in	the tool list.	 ✓ Manual ✓ Manual ✓ Manual ✓ 1.0ev +2/3ev +1/2ev +1/3ev +0.0ev -1/3ev -1/2ev 	pictures. ✓ Selecting Edit Re the pull-down me	egistered Adjustments from enu displays a dialog where you lete previously-saved settings.	Edit ♦ Manual • +1.5 • +1.0ev +2/3ev • +1/2ev • +1/2ev • +1/2ev • +1/3ev • 0.0ev • 1/3ev • -1/3ev • -1/3ev • -1/3ev • -1/2ev • -1/2ev • -2/3ev - 1/2ev • -1/2ev • -1/2	k≡ ×
Capture NX-D Reference Manu	al					33

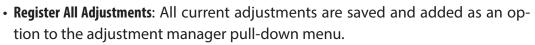
Filters



The Adjustment Manager Tool

The adjustment manager can be used to apply multiple adjustments simultaneously.

- **Copy Updated Adjustments**: Copy all adjustments that have been changed since the current folder was selected.
- Copy All Adjustments: Copy all adjustments.
- Paste Adjustments: Apply adjustments copied using Copy Updated Adjustments or Copy All Adjustments to the currently-selected image or images.
- Save Updated Adjustments: Save all adjustments that have been changed since the current folder was selected.
- Save All Adjustments: Save all adjustments.
- Load Adjustments: Select an adjustments file saved using Save Updated Adjustments or Save All Adjustments and apply it to the currently-selected image or images.
- **Register Updated Adjustments**: Any adjustments that have been changed since the current folder was selected are saved and added as an option to the adjustment manager pulldown menu.



• Edit Registered Adjustments: Reorder, rename, or delete adjustments previously added to the adjustment manager pull-down menu.

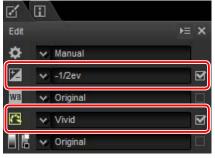
📝 Edit	≡∢	×
🔅 🗸 Original		
🔽 💙 +0.0ev		
WB 🐱 Original		
🕰 🐱 Original		
📕 🛃 🐱 Original		
‱⊇☑‱⊿☑类	١	€
🛱 Adjustments)≡ ×	î
∽ Original		
Copy Updated Adjustments		
Copy All Adjustments		
Paste Adjustments		
Save Updated Adjustments		
Save All Adjustments		
Load Adjustments		
Register Updated Adjustments	_	
Register All Adjustments		
Edit Registered Adjustments		•

■ Copying Adjustments to Other Pictures

Follow the steps below to copy adjustments and apply them to other images.

Adjust settings in the edit palette. Here we have set exposure compensation (page 20) to $-\frac{1}{2}$ EV and selected the **Vivid** Picture Control (page 22).



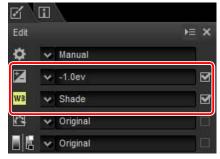


Click the adjustment manager icon and select Copy Updated Adjustments or Copy All Adjustments from the options in the adjustment palette. Here we have selected Copy All Adjustments.



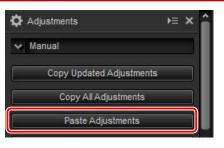
3 Select images. In this example, the selected image has already been adjustedusingtheexposurecompensation(page20)andwhitebalance(page21) tools.



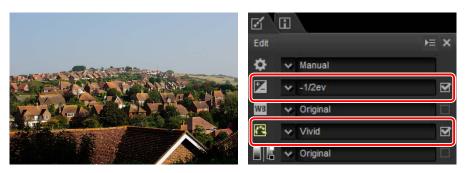




4 Click the adjustment manager icon and select **Paste Adjustments** from the options in the adjustment palette.



The adjustments copied in Step 2 are applied to the images selected in Step 3. Because we selected **Copy All Adjustments** in Step 2, exposure compensation changes to $-\frac{1}{2}$ EV while white balance reverts to **Original**.



Had we selected **Copy Updated Adjustments** in Step 2, the exposure compensation and Picture Control for the selected image would have been set to the values selected in Step 1, while white balance would have remained at the value selected in Step 3.

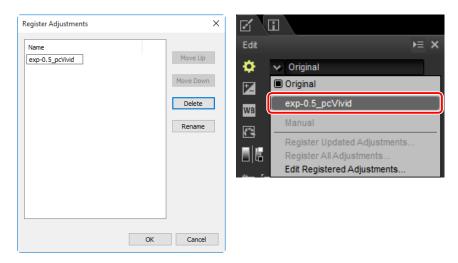
Copying Adjustments to Other Computers

The Save Updated Adjustments and Save All Adjustments options save image adjustments to a file which can be copied to other computers. The adjustments can then be applied to selected pictures on the other computers using Load Adjustments.

← → · ↑ [> This PC > Documents	~ Ö	Search Docum	nents	٩
Organize - N	ew folder			100 -	0
A Quick access	Name	D	ate modified	Туре	
🖌 🦾 OneDrive		No items match your	r search.		
📃 This PC					
> interverk interverk					
> 💣 Network					
> 🧬 Network	٢				
> 🧬 Network File name:					

■ Adding Adjustments to the Adjustment Manager

Use the **Register Updated Adjustments** and **Register All Adjustments** options to add adjustments to the adjustment manager pull-down menu.



Copying Adjustments from RAW to JPEG or TIFF Images

When adjustments are copied from RAW (NEF/NRW) to JPEG or TIFF images, exposure compensation, Picture Controls, and other settings that are available only with RAW images will not be applied.

File Format To save RAW (NEF/NRW) images in JPEG or TIFF format, click the B button in the (3) Use LZW compression(TIFF only): Compress TIFF files using "lossless" LZW comprestoolbar. sion. Z LZW compression may sometimes increase file size when applied to 16-bit images. │ⅲ་▥་◨™◨ы┓┓┓╹》|、++C、◈ | ★ ∀ ਲ਼│聖 堅 🖌 🖗 🖕 🗗 → 🗁 (4) **Resolution**: Select this option to choose the output resolution. A dialog will be displayed where you can choose a file format and adjust such (5) Embed ICC profile: Select this option to embed the current color profile in the settings as compression and image size. Click **Start** to copy the file or files in the image. selected folder. (6) Specify size: Select this option to resize pictures saved in the new format. The new size can be entered in pixels, centimeters, or inches. When you enter a Convert Selected File \times value for either Long edge or Short edge, the remaining value will automati-File format: JPEG \sim cally be adjusted to maintain the original aspect ratio. Image qualit (7) Use source folder: Save copies in the same folders as the originals. Quality Good Quality ~ 2 (8) Use source file name: Save copies under the same file names as the originals. 3 Use LZW compression 85 Two-digit numbers will automatically be added in ascending order to the file names if files with the same names as the original already exist in the selected 300 Embed ICC profile 5 Resolution folder. Image size (9) Save in: If Use source folder is not selected, click Browse... to select a destina-Specify size Short edge Unit Long edge tion folder. 6 4256 2832 pixel (10) File name: If Use source file name is not selected, click Edit... to name the copies using selected prefixes, suffixes, and sequential numbering. Destination 8 Use source folder Use source file name 9 Browse Save in: C:\Users\user\Pictures $(\mathbf{10})$ File name: DSC 0001 00001.jpg Edit. Start Cancel (1) File format: Choose from JPEG, TIFF (8 Bit), and TIFF (16 Bit). (2) Quality (JPEG only): Use the slider or pull-down menu to choose a value between 0 and 100. The higher the value, the lower the compression ratio and the higher the image quality; the lower the value, the higher the compression ratio and the smaller the file size.

Image Adjustment

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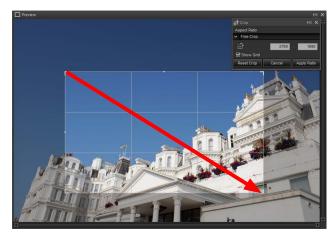
Other Features

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
Cropping Pictures					
	from images, click the 🗗 bu	ਲ਼ਲ਼∣⊒≌≦∖√®⁺⊖₿	aspect ratio, choo		select a free crop with no fixed
The crop palette will be a		2 Ratio a Crop 4 4241 : 2805 ww Grid			 ✓ Free Crop Custom 1:1 16:9 4:3 3:2 11:8.5 (Letter) 11:7 1.41:1 (A series) 1.41:1 (B series) 11:9 6:5 5:4

7 The aspect ratio can be changed after you have resized and positioned the crop.

2 Drag the cursor over the image to select the crop. The area outside the crop is shown in gray.

5:4 Photo Ratio



Aspect Ratio

Aspect Ratio

desired aspect ratio.

Rotate the crop 90°.

Reset the current crop.

Cancel the current crop.

Apply the current crop.

Display an evenly-spaced 3×3 grid inside the crop.

Custom

3 Rotate Crop

4 Show Grid5 Reset Crop

(7) Apply Ratio

(6) Cancel

 $(\mathbf{1})$

2

The crop aspect ratio. Choose **Free Crop** to select a crop with no fixed aspect ratio.

For custom aspect ratios not listed in the aspect ratio menu, select **Custom** and enter the

Viewing Pictures

Filters

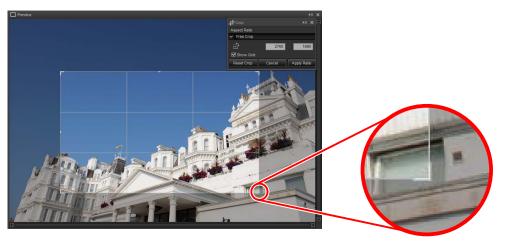
Image Adjustment

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3 Drag the corners of the crop to resize it without changing the aspect ratio.



70 reset the crop, click **Reset Crop**.

4 Double-click inside the crop or click the **Apply Ratio** button in the toolbar to crop the image.

🖉 Crop

Crops are not applied to the original image data and can be changed at any time by clicking the *p* button in the toolbar. This also applies in the case of images cropped using ViewNX 2 or ViewNX-i.



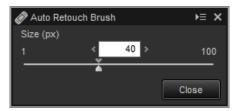
Crops are applied when images are converted to JPEG or TIFF (<u>page 36</u>). When NEF/NRW (RAW) images cropped in Capture NX 2 are opened in Capture NX-D, the crop is treated as the entire image; to select a crop that extends outside these bounds, click the revert button (<u>page 19</u>) to restore the original image and then select the desired crop.



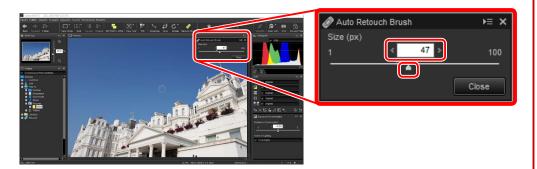
Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide			
Removing Dust and Scratches								
Dust and scratches can be removed using the retouch brush tool.			2 Keeping the mo	use button pressed, drag th	e brush over the defect. T	he af-		

┝ ᆃ ⊵│Щ゙║゙◨ᆘ┗▯◙゙隊่ᆠᅷĆ゙(◈)★ ア ᅚ╎▣ 堅│⊻│ᅇ゙ᇢ 6 ╚

Clicking the *s* button in the toolbar displays the retouch brush palette.



1 Choose the brush size.



🖉 Brush Size

A brush larger than the defect you are attempting to correct may affect neighboring areas of the image.

2 Keeping the mouse button pressed, drag the brush over the defect. The affected area is shown by a translucent red line; continue until the defect is completely covered.





3 Release the mouse button to apply the tool to the affected area.

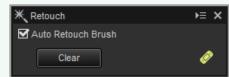


🖉 The Auto Retouch Brush

The retouch brush copies data from surrounding areas of the image automatically and pastes it over the defect. It may not produce the desired results if defects are widespread, the tool is dragged a long distance, or the affected is very large. The time required to complete processing varies with the image.

The Retouch Palette

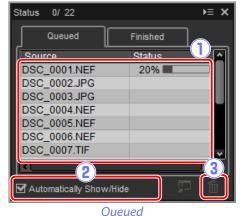
Clicking the *button* in the toolbar or the *tool* button in the edit palette displays the retouch palette. Select or deselect **Auto Retouch Brush** to show or hide the effects of the retouch brush, or undo the effects of the brush by clicking **Clear**.



Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
Batch Processing	g			· ·	
adjustments on all p images in a selected	bit settings Resolution 300 dpi ✓ Embed ICC profile size Specify size Long edge Short edge Unit pixel	then export the processed ptions are shown below.	 0 and 100. The hithigher the image ratio and the small (5) Use LZW compression sion. IZW compression r (6) Resolution: Select th (7) Embed ICC profile: Set image. (8) Specify size: Select to new size can be envalue for either Loo cally be adjusted t (9) Destination: Select Use so already exists in the set of t	gher the value, the lower to quality; the lower the value ler the file size. (TIFF only): Compress TIFF files nay sometimes increase file size whe his option to choose the out lect this option to embed the his option to resize pictures ntered in pixels, centimeter ng edge or Short edge , the o maintain the original aspect Jse source folder to save the a different folder, remove the ave the processed files under urce file name (if a file with the current folder, the process in file name); to choose different	put resolution. he current color profile in each s saved in the new format. The s, or inches. When you enter a remaining value will automati-

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features

Clicking **Start** starts processing and displays a progress dialog. Progress can be viewed in the **Queued** and **Finished** tabs.



Status 0/ 22	v≡ ×
Queued	Finished
Source	Status
DSC_0001.NEF	20%
DSC_0002.JPG	
DSC_0003.JPG	
DSC_0004.NEF	
DSC_0005.NEF	
DSC_0006.NEF	
DSC_0007.TIF	v
2	4 3
Automatically Show/Hide	
Finisl	hed

(1) **Source**: A list of the files that are awaiting processing or have been processed.

2 Automatically Show/Hide: Removing the check from this option hides the progress dialog. The progress dialog can be displayed by clicking the solution in the toolbar.

·← → ▷ │ⅲ་ ▥་ ◨ ◧│◾│◙ヾ|≫│≒ ᅷ ♂ ヾ ◈ │★ ヾ ヾ 堅 │⊻│ᅇ་ ᇢ ᆭ

- (3) **Delete**: Click to remove the file selected in the **Queued** tab from the queue, or to delete the log for the file selected in the **Finished** tab.
- (4) **View folder**: Open the destination folder in the operating system file browser.

Color Efex Pro

If the source contains files modified using the Color Efex Pro plug-in for Capture NX 2 or Capture NX, a message will be displayed and the images will not be processed.

File Conversion

If multiple files are selected when the button in the toolbar is used to export files in another format (page 36), the files will be exported as a batch process. Adjust settings as described for items (3) through (9) on page 40.

Convert Selected Files (Run as Bate	h Process) X
Image quality	File format: JPEG V
Quality	Good Balance \checkmark
	60 Use LZW compression
Output settings Resolution 300	dpi 🛛 Embed ICC profile
Image size	
Long edge 2464 ×	Short edge Unit 1632 pixel V
Destination Use source folder	Lise source file name
Save in: C: \Users\user\Pict	ures Browse
File name: DSC_0001_00001.	jpg Edit
	Start Cancel

Batch Processing

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Printing Pictures								
To print pictures on a printer connected to the computer, select the pictures and			Th	The "Print" Dialog				
choose Print in the File menu. The "Print" dialog will be displayed.				 Full Page: Print one picture per page. Index Print: Print multiple images per page (page 44). Standard Photo Sizes: Print pictures at a standard photo size. Capture N chooses the number of pictures printed on each page. 				
	Printer Type:	Settings		Printer	Click Settin	gs to choose the printer and pape	er size and adjust other printer settings.	
Print Pype: Inspit V Print Priorby: Galaty V Conses: 1.1 V			Pri	Printer Type	Choose Ink	jet when printing on an inkjet prir	nter.	
All the second second	Page Layou Resize in	Page Layout Pesize Image 100 %	Printer Setup	Print Priority		mage for faster printing, or Quali	ose Speed to use the preview data embed- ty to use the original image data for higher	
	Rotate to ft			Copies	Choose the	number of copies of each page pr	inted.	
	Erop mages to tr Background color: Border width:	White v 0 v pt		Rotate to fit	Rotate pictu	ures to print them at the largest po	ssible size.	
	Copies of each mape Pice Information Gene Info	(draft mode) (draft mode)		Crop images to fit	Pictures are cropped ou	-	ortions that do not fit in the print area are	
1	e 1 v / 1 D Pet	Fie Output Cancel		Background Color	Choose the	background color. Choose White	to print with no background.	
Adjust settings as descr picture as shown in the		ge and click Print to print the	Page Layout	Border width		width of the borders printed arour ckground color). Choose 0 to print	nd the image (the color of the borders varies t without borders.	
picture as shown in the preview.				Copies of each image	Choose the	number of copies of each photo p	printed.	
				Print Information	Print the file	e name, date of recording, or photo	o information under each picture (<u>page 43</u>).	
				Use thumb- nail data (draft mode)	using the o	humbnail data. Images print faster riginal file data even when this opt	, but at lower quality. Some images will print tion is selected.	
				Specify color		ngs to select the color profile	used for printing (Profile) and choose an	

profile

🖉 Notes on Printing

To print to a JPEG file, click **File Output**.

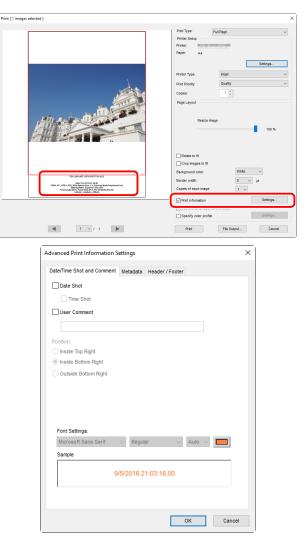
The most recently-used settings are recalled when the print dialog is next displayed.

Intent from Perceptual and Relative colorimetric (page 45).

Introduction Viewing Pictures Filters Image	Adjustment
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Printing Image Information

To choose the information printed under each picture, select **Print Information** in the "Print" dialog (page 42), click **Settings**, and adjust the settings described on the following page.



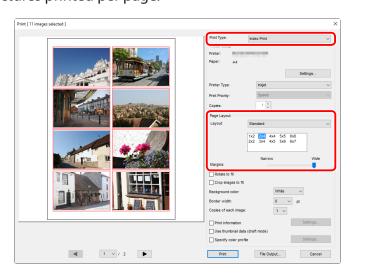
Advanced Print Information Settings

D	Date Shot	Print the date of recording in the position selected for Position .
ate/T	Time Shot	Print the time of recording together with the date.
ime S	User Comment	Print the comment entered in the text box.
Date/Time Shot and Comment	Font Settings	Choose the font, style, font point size, and color used to print the date/time stamp. The results can be previewed in the "Sample" area.
	Metadata	Choose the file and photo information printed with each picture. The font, style, and font point size can be selected in the "Font Settings" area and previewed in the "Sample" area.
	Header	Enter the text and choose the alignment for the header that will be printed at the top of each page.
Header/Footer	Page Number	Choose whether to print the page number and the total number of pages and select the position and alignment. The page number can be positioned at the page Top (in the header) or Bottom (in the footer).
	Footer	Enter the text and choose the alignment for the footer that will be printed at the bottom of each page.
	Font Settings	Choose a font, style, and font point size for the header, footer, and page number. The results can be previewed in the "Sample" area.

Print Information

Print information is not rotated when **Rotate to fit** is selected in the "Print" dialog. Metadata that does not fit in the print area will be omitted.

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide	
Index Prints						
		t for "Print Type" in the "Print area will change; choose the	-	t the size entered for "Width'	″and	
number of pictures prin	ted per page.		"Height" (the minim	um size is 20.0 mm \times 20.0	mm	



Layout

Choose a layout.

Standard

Choose the number of pictures per page from a list box. The size of the pictures is automatically adjusted according to the option selected.



$A 2 \times 4$ layout

Pictures are printed at the size entered for "Width" and "Height" (the minimum size is 20.0 mm \times 20.0 mm and the maximum the same as the page size). The number of pictures per page is automatically adjusted according to the size selected.



Pictures printed at 50 mm × 50 mm

Column and Row

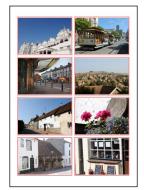
Choose the number of columns and rows printed per page (the minimum is 1 and the maximum 10). The size of the pictures is automatically adjusted according to the options selected.



A 3×3 layout

Images Per Page

Choose the number of images printed per page. The images will automatically be resized according to the number selected.



An 8×8 layout

Margins

Choose the width of the margins.

🖉 Intent

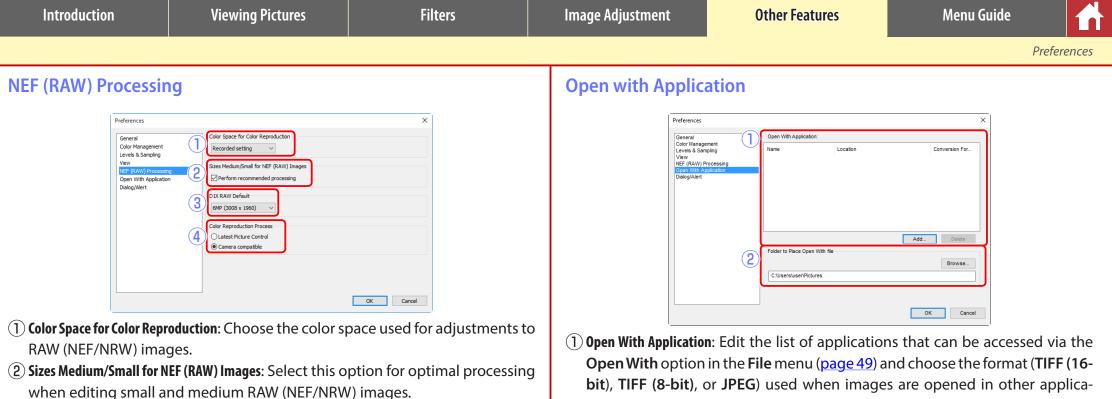
Perceptual maintains the relations between colors to produce results that seem natural to the human eye. The colors may however not be true to the original image data. **Relative colorimetric** maps colors not in the selected profile to the nearest available color. All colors in the gamut of the printer will be reproduced accurately.

Introduction	uction Viewing Pictures Filters Image Adjustment		Other Features	Menu Guide	
					Preferences
Levels & Sampling			View		
Preferences General Color Management Levels & Sampling View NEF: (AAW) Processi Open With Applicatio Dialog/Alert	ig Sampling	× 9% White: 0.50 % e v OK Cancel	Levels i View NEF (R4	Al anagement & Samping AW) Processing AW) Processing AW) Application Alert Color Color Gridine every:	X 1000 ∨ pixels 4 ∨ OK Cancel
contrast by setting th	evels and curves auto contra ne white and black points to rkest pixels in the image. Ch	exclude a set proportion of	(1) Size of Text and Icor (2) Color: Choose a c	n: Choose the size of the letter color for the reference grid.	s and icons in the user interface.

els excluded by the new **Black** and **White** points.

- (2) **Dropper sample size**: Select the size of the area sampled by the gray point (page 21) and levels and curves (page 32) sampling controls. Choose from **Point sample** (a single pixel), **3×3 Average** (the average of an area 3 pixels square) and **5×5 Average** (the average of an area 5 pixels square).
- (3) **Restore Defaults**: Reset all items in the "Levels & Sampling" tab to their default values.

- (3) Gridline every: Choose the grid spacing.
- (4) **Subdivisions**: Choose the number of subdivisions in each square.
- (5) **Restore Defaults**: Reset all items in the "View" tab to their default values.



- (3) D1X RAW Default: Choose the default display size for RAW (NEF) photos taken with the D1x. Choose from 6MP (3008 × 1960) and 10MP (4016 × 2616).
- (4) Color Reproduction Process: Choose a color reproduction process (page 22).
- tions.
- (2) Folder to Place Open With file: Before being opened in other applications, images are converted to the format selected using **Open With Application**. Use this option to choose where the converted files are stored.

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
				-	Preferences
Dialog/Alert					
Preferences General Color Management Levels & Samping View NEF (RAW) Processi Open With Applicate Dislog/Alert		K Cancel			
(1) Dialog Windows : Click F boxes for all dialogs.	Reset to reset the "Don't sh	now this dialog again" chec	<		

Introduction	Viewing Pictures	Filters	Image Adjustment	Other Features	Menu Guide
Menu Guide					
number.	play the product version Capture NX-D preferences	Capture NX-D About Capture NX-D Preferences 第, Services Hide Capture NX-D 第H Hide Others て第H Show All Quit Capture NX-D 第C	 Rename: Rename the Convert Files: Convert mat (page 36). Run Batch Process: Perf Page Setup: Adjust pr Print: Print images (p Exit (Windows only): Exit 	the currently-selected imag form batch processing (<u>page</u> inter settings. <u>page 42</u>). : Capture NX-D.	e or images to JPEG or TIFF for-
The File Menu				tion after performing Undo .	Podo OtdaV
 New Folder: Create a new sub-folder in the current folder. Rename Folder: Rename the current folder. Launch Camera Control Pro 2: Launch Camera Control Pro 2. Synchronize Edits: Select this option to apply current settings to any images subsequently added to the current folder. Open with ViewNX-i: View the current image or images in ViewNX-i. The images are dis- 		me Folder th Camera Control Pro 2 ronize Edits with ViewNX-i Ctrl+O With in Explorer th Picture Control Utility 2 me F2 rt Files Ctrl+E atch Process Ctrl+B Setup Ctrl+Shift+P Ctrl+P Ctrl+Q Dlication. Use the Open Wi ft u (page 47).	With		Cut Ctrl+X Copy Ctrl+C Paste Ctrl+V Delete Delete Select All Ctrl+A Select Inverse Ctrl+Shift+A Deselect Select File Preferences Ctrl+K

ing system file browser.

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The View Menu

- **Go**: Navigate the folder hierarchy.
- Thumbnail/Image Viewer/Preview/Full Screen: Choose how images are displayed (page 10).
- Compare Before and After Images/2 Images/ 4 Images: Compare images (page 13). The 4 Images option is available only on a computer with a 64-bit operating system and at least 4 GB of memory.
- **Thumbnail Size**: Choose the thumbnail size (page 10).
- Sort Thumbnails by: Sort thumbnails.
- **Filter**: Filter images according to selected criteria (page 17).
- Zoom In/Zoom Out/Fit to Screen/View at 25%/ View at 50%/View at 100%/View at 200%/View at 400%: Zoom the preview in or out.

displayed	Thumbnail	Alt+0
	✓ Image Viewer	Alt+9
	Preview	Р
s/2 Images/	Full Screen	F
<mark>je 13</mark>). The	Compare Before and After Images	
only on a	2 Images	
ating sys-	4 Images	
• ·	Thumbnail Size	•
ory.	Sort Thumbnails by	•
nbnail size	Filter	Ctrl+F
	Zoom In	Ctrl++
ails.	Zoom Out	Ctrl+-
o selected	Fit to Screen	Ctrl+Alt+0
obelected	View at 25%	
	View at 50%	Ctrl+Alt+5
ew at 25%/	View at 100%	Ctrl+Alt+1

View at 200%

View at 400%

The Image Menu

- Next Image/Previous Image: View the next or previous image in the current folder.
- **Rotate**: Rotate the current image 90 or 180 degrees.

Image(I)	
Next Image	RightArrow
Previous Image	LeftArrow
Rotate 90°CW	Ctrl+R
Rotate 90°CCW	Ctrl+Shift+R
Rotate 180°	
Show Grid	Ctrl+G
Show Focus Point	Ctrl+Shift+F
Show Lost Highlights	Shift+H
Show Lost Shadows	Shift+S
Apply Labels	+
Apply Ratings	•

Menu Guide

• Show Grid: Display a grid over the preview.

• Show Focus Point: Show the focus point in the pre-







Image Adjustment

view display.

Other Features

Viewing Pictures

View(V)

Go

Filters

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Viewing Pictures

Filters



• Show Lost Highlights: View areas of the image with the maximum value for brightness and in which details may have been lost to overexposure ("washed out"). A different color is used to show the lost highlights for each of the RGB, red, green, and blue channels.



- Show Lost Shadows: View areas of the image with the minimum value for brightness and in which details may have been lost to underexposure. A different color is used to show the lost shadows for each of the RGB, red, green, and blue channels.
- Apply: Label (page 16) or rate (page 15) selected images.

The Adjust Menu

- **Revert to Original State**: Reset all image adjustments and restore the picture to its original state.
- **Revert to Last Saved State**: Initialize the settings file (<u>page 3</u>), cancelling all changes made in Capture NX-D.
- **Copy Updated Adjustments**: Copy only those adjustments that have been changed since the current folder was last opened.
- Copy All Adjustments: Copy all adjustments.

Adjust(A)			
Revert to Original State			
Revert to Last Saved State			
Copy Updated Adjustments			
Copy All Adjustments	Ctrl+Shift+C		
Paste Adjustments	Ctrl+Shift+V		
Save Updated Adjustments.			
Save All Adjustments	Ctrl+Shift+S		
Load Adjustments	Ctrl+Shift+O		

- Paste Adjustments: Apply to the current image adjustments copied using Copy Updated Adjustments or Copy All Adjustments.
- **Save Updated Adjustments**: Create a file containing only those adjustments that have been changed since the current folder was last opened.
- Save All Adjustments: Save all adjustments to a file.
- Load Adjustments: Load adjustments from a file created with Save Updated Adjustments or Save All Adjustments and apply them to the current image.

V Using "Revert to Original State" with Images Modified in Other Applications

In the case of JPEG and TIFF images modified in Capture NX 2 or ViewNX 2, **Revert to Original State** reverts the image to its last saved state.

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Pictures

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Combination Tool

Gray Point Sample Tool

Auto Retouch Brush Tool

Zoom Tool

Hand Tool

Crop Tool

Straighten Tool

Е

М

Ζ

н

W

С

R

в

Image Adjustment



The Tool Menu

- Fit: Double-click the display to alternately zoom the Tool(T) preview to fit the palette and zoom to a 100% view.
- **Combination Tool**: As above, except that the preview can be scrolled by dragging the cursor.
- **Zoom Tool**: Click to zoom in. To zoom out, click while pressing the **Alt** key (or on Mac computers, the **option** key).
- option key).Hand Tool: Drag to scroll the preview.
- Gray Point Sample Tool: Set white balance by sampling the preview (page 21).
- Crop Tool: Crop the preview (page 37).
- Straighten Tool: Straighten the image in the preview palette (page 30).
- Auto Retouch Brush Tool: Remove dust and scratches (page 39).

The Window Menu

- Histogram/Edit/Metadata/Bird's Eye/Folders: View or hide the selected palette.
- Show Tool Bar: View or hide the toolbar.
- Show Status Bar: View or hide the status bar.
- Show Pallets: View or hide all palettes.
- Customize Toolbar: Customize the toolbar (page 8).

Window(W)	
✓ Histogram	
✓ Edit	Ctrl+T
✓ Metadata	Ctrl+I
✓ Bird's Eye	
✓ Folders	
 Show Tool Bar 	
✓ Show Status Bar	
 Show Pallets 	Tab
Customize Toolbar	+

The Help Menu

- Capture NX-D Help: View online help.
- Check for Updates: Check for updates to Capture NX-D.
- About Capture NX-D (Windows only): Display the product version number.

Help(H)	
Capture NX-D Help	F1
Check for Updates	
About Capture NX-D	

