

- Save where otherwise stated, the illustrations in this manual show the software as it appears in Windows 7 at a display resolution of 1280 × 1024 (SXGA). Some portions of the windows and dialogs shown in this manual may not be visible when displayed at lower resolutions.
- 🖉 When this manual is viewed in a pdf reader, the links at the top of each page can be used for chapter navigation. Click 🚮 to return to this page.
- This manual assumes that default camera and software settings are used.
- See online help for more information on the features described in this manual or on Short Movie Creator, Panorama Maker, and any other software bundled with ViewNX 2. Help can be accessed from the **Help** menu at the top of the application window.

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Selecting Pictures | Finding Pictures |

ViewNX 2: An Overview

ViewNX 2 is used to copy photographs and movies from your camera to a computer, where they can then be viewed, retouched, printed, or uploaded to social networking sites.



1 Installed automatically with ViewNX 2.

ViewNX 2



- **Select tools**: Use the menus and tool buttons to access program features.
- **2** Find pictures: Display only images that match the selected conditions.
- **B Choose folders**: Select the folder containing the pictures you want to view.
- 4 **Retouch pictures/view photo info**: Use the retouch tools or view the shooting info (metadata) embedded in pictures.
- 5 Rate pictures: Rate or label selected pictures.
- **6** View pictures: Pictures are displayed in this area. You can choose the size at which pictures are displayed.
- ✓ NEF (RAW) files recorded with cameras that are not supported under the installed version of ViewNX 2 may not transfer correctly. Be sure to always use the latest version of ViewNX 2.

Installing ViewNX 2: Windows

Before installing ViewNX 2 under Windows, be sure that the system meets the following requirements:

- Photos/JPEG movies: 1.6 GHz Intel Celeron, Pentium 4 or Core series or better
- **H.264 movies (playback)**: 3.0 GHz Pentium D or better; Intel Core i5 or better recommended when viewing movies with a frame size of 1280 × 720 or more at a frame rate of 30 fps or above
- **CPU** when viewing movies with a frame size of 1280×720 or more at a frame rate of 30 fps or above or movies with a frame size of 1920×1080 or more
 - H.264 movies (editing): 2.6 GHz Core 2 Duo or better

OS Pre-installed versions of Windows 8/Windows 8 Pro/Windows 8 Enterprise (64- and 32-bit editions), Windows 7 Home Basic/Home Premium/Professional/Enterprise/Ultimate (64- and 32-bit editions; Service Pack 1), Windows Vista Home Basic/Home Premium/Business/Enterprise/Ultimate (64- and 32-bit editions; Service Pack 2), or Windows XP Home Edition/Professional (32-bit editions only; Service Pack 3). Note that only ViewNX 2 and Picture Control Utility run as native 64-bit applications under 64-bit editions of Windows.

RAM	 Windows 7/Windows Vista: 1 GB or more (2 GB or more recommended) Windows XP: 512 MB or more (2 GB or more recommended)
Hard-disk space	A minimum of 1 GB available on the startup disk (3 GB or more recommended)
Monitor	 Resolution: 1024×768 pixels (XGA) or more (1280×1024 pixels (SXGA) or more recommended) Color: 24-bit color (True Color) or more

🖉 Some features require an Internet connection.

Microsoft DirectX 9 or later is required for playback of movies in WMV and MPEG1 formats.

To install ViewNX 2 from a CD supplied with the camera, follow the steps below.

- **1** Start the computer and insert the installer CD.
- 2 A language-selection dialog will be displayed. Select a language and click **Next**.

Nilko			
NIKOI	0		
	Welcome to the wor Please select your la	Id of Nikon digital photograph	y. st
	ricase select your la	nguage non the drop domin	561
	English		•
	nion Selection	Next	Exit

- If the desired language is not available, click **Region Selection** to choose a different region and then choose the desired language (region selection is not available in the European release).
- **3** Follow the on-screen instructions to complete installation.

🖉 Launching the Installer Manually

If the installer does not start automatically, click the Windows start button, select **Computer** or **My Computer**, and double-click the CD icon.

Downloading ViewNX 2

The ViewNX 2 installer can be downloaded from the following website:

http://nikonimglib.com/nvnx/

Choose a region and language and follow the on-screen instructions to download the installer. Once download is complete, double-click the installer and follow the on-screen instructions to install ViewNX 2.

Conter	nts	Introduction	Image Transfer	Viewing Pictures	Selecting Pictur	res Finding Pictures	Retouching Pictures	Printing Pictures	Other Features
Instal	ling Vi	ewNX 2: Mac	0S						
Before i followin	nstalling g require	ViewNX 2 under ements:	^r Mac OS, be sure	that the system n	neets the	To install ViewNX 2 fro 1 Start the compu	om a CD supplied v iter and insert the	vith the camera, fo installer CD. A CD	ollow the steps below.
CPU	 Photos/JF H.264 moviewing movies w H.264 movies w 	PEG movies : Intel Core or vies (playback) : 2 GHz C movies with a frame siz vith a frame size of 1920 vies (editing) : 2.6 GHz C	Xeon series Fore Duo or better; Intel C te of 1280 × 720 or more X 1080 or more ore 2 Duo or better	Core i5 or better recommended at a frame rate of 30 fps	ended when s or above or	pear on the desk the CD. 2 Double-click the	ktop; double-click t Welcome icon to l	he icon to view th aunch the installe	r.
05	Mac OS X v	version 10.6.8, 10.7.5, or	10.8.2						Welcome
RAM Hard-disk space	512 MB or A minimur	more (2 GB or more rec n of 1 GB available on tl	ommended) ne startup disk (3 GB or m	nore recommended)	(3 A language-selec Next.	ction dialog will be	e displayed. Select	a language and click
Monitor	• Resolutio	n: 1024×768 pixels (XG, bit color (millions of col quire an Internet conr	A) or more (1280×1024 p lors) or more	ixels (SXGA) or more reco	ommended)	 If the desired lange and then choose release). Follow the on-sc Downloading ViewNX 2 The ViewNX 2 installer can <u>http://nikonimglib.com/r</u> Choose a region and lange Once download is compliminated in the compliminated of the complementation of the complemen	Welcome to the word Please select your lar English Region Selection reeen instructions to be downloaded from to nvnx/ guage and follow the of lete, double-click the in	d of Nikon digital photography. guage from the drop-down list. Exit Next A complete installation to be following website: on-screen instructions hstaller and follow the	o choose a different region available in the European ation.

Launching Nikon Transfer 2

Introduction

Nikon Transfer 2 launches automatically when a Nikon digital camera is connected or a camera memory card is inserted in card reader or card slot. It can also be launched manually from ViewNX 2.

🖉 Nikon Transfer 2

Nikon Transfer 2 is used to copy pictures from the camera to the computer and is installed automatically when you install ViewNX 2. If you have purchased a new camera since installing ViewNX 2, be sure to upgrade to the latest version, as earlier versions may corrupt NEF (RAW) files recorded by late-model cameras.

Direct Connection

Nikon Transfer 2 launches automatically when a camera is detected.

1 Turn the camera off and connect it to the computer using the designated USB cable (use the cable supplied with the camera if applicable, or use the optional USB cable designated for use with your camera).



To transfer pictures from a memory card, be sure that the card is inserted in the camera before proceeding. If the camera is equipped with built-in memory, pictures can be transferred from built-in memory by removing the memory card before proceeding.

2 If necessary, turn the camera on. Nikon Transfer 2 will launch automatically (if a message is displayed prompting you to choose a program, select Nikon Transfer 2).



Windows 7: If Windows displays the dialog at right, click Change program under Import pictures and videos and select Import file using Nikon Transfer 2.

00	🔞 « Handware and Sound 🔹 Devices and Printers 🔹	• D800 • • • • • • • •
ľ	DB00 NECM D5C DB0 Incom bettery (27%)	🖻 738 dê hee dî 738 dê
D	Manage media on your device Add or remove music, pictures, and videos	Import pictures and videos Transfer pictures and videos from your device to your co Change program
1.	Browse files The street commuter to sizes files and folders on street deal	See Prantes from over the Demonster with Windows

Card Readers

Pictures can be copied from camera memory cards using built-in card slots or an external card reader connected to the computer.

1 If you are using an external card reader, connect it to the computer as described in the documentation provided with the device.



2 Insert the memory card in the card reader or card slot. Nikon Transfer 2 will launch automatically (if a message is displayed prompting you to choose a program, select Nikon Transfer 2).



Manual Launch

Nikon Transfer 2 can be launched by clicking the **(Transfer**) button in the ViewNX 2 toolbar. Launch Nikon Transfer 2 manually to change transfer settings before connecting a camera or inserting a memory card.

VienKX 2 - CiUber/Nature/Natur

Copying Pictures to a Computer

Use Nikon Transfer 2 to copy pictures to the computer.

Copying All Pictures

At default settings, all new pictures on the camera memory card or in the camera's built-in memory can be copied to the computer by clicking **Start Transfer** in Nikon Transfer 2. The pictures will automatically be displayed in ViewNX 2 when transfer is complete.



Copying Selected Pictures

To copy only selected pictures, follow the steps below.

1 Enlarge the window by dragging the frame until you can see all the pictures in the "Thumbnails" area.





2 Click the check boxes to select or deselect pictures.





Picture selected. Click to deselect.

3 Click Start Transfer to copy the selected pictures to the computer.

Default Destinations

At default settings, pictures are copied to new sub-folders automatically created under the "Nikon Transfer 2" folder and named in ascending order, starting with "001" ("001", "002", "003", ...). The folder is displayed in the ViewNX 2 "Folders" area.



"Folders" area







Users : (user name) : Pictures : Nikon Transfer 2 : 001



Primary Destination: C:\Users\use

Copying Pictures to a Computer

Changing the Destination

To change the destination for new images copied to the computer, click the next to "Options" and open the "Primary Destination" tab.



Renaming Files During Transfer

To copy the files to the destination under a new name, select **Rename files during transfer** and click Edit to choose the file naming rules. For more information, select Help > ViewNX 2 Help... > Transferring Files > Transfer Options > Renaming Files During Transfer.

Choosing a Destination: Example 1

To save pictures to the "Nikon Transfer 2" folder grouped in sub-folders named according to the date the pictures were taken:

Select "Nikon Transfer 2" (the default option) for Primary destination folder.



Select Create subfolder for each transfer and click Edit.

The dialog shown at right will be dis-3 played. Choose Date shot from the menu in the center and select Do not add trailing number.

	20120927_001	
Prefix None New name		Suffix None New name
None	Date Shot Sequential number Date Transferred Date/Time Transferred Date Shot	None I
yyyymmdd	Do not add traing number	of number
		OK Cancel

der for each transfer

🔽 Use subfolder with same name if it exi

subfolder under Primar

Edit.

4 Click **OK** to exit the folder naming dialog. When you click Start Transfer to copy pictures to the computer, the pictures will be saved to the "Nikon Transfer 2" folder grouped in sub-folders named for the date the pictures were taken (e.g., "20110801").



Sub-folder for pictures shot on August 1, 2011

■ Choosing a Destination: Example 2

To save pictures to the "Nikon Transfer 2" folder in a sub-folder named "Kyoto":

Select "Nikon Transfer 2" (the default option) for **Primary destination folder**.

🔝 Nikon Transfer 2
File Edit View Window Help
Coptions Source: D800
Source Primary Destination Backup Destination Prefe
Primary destination folder: O Create subfold
C:\\user\Pictures\Nikon Transfer 2 7 102
✓ C:\Users\user\Pictures\Nikon Transfer 2
Browse hoose subfol Destination fol
CrUsers/user/Pictures/Nikon Transfer 2 Use subfold Browse hoose subfol Destination fol

2 Select Choose subfolder under Primary Destination folder and enter "Kyoto" in the "Primary Destination" text box.

Primary Destination: C:\Users\user\Pictures\ Destination Preferences	Nkon Transfe Z\kyoto V
Create addresser transfer Comparison and the contract Comparison addresser transfer Comparison addresser Comparis	Rename Res during transfer

- **3** When you click **Start Transfer** to copy pictures to the computer, the pictures will be saved to the "Nikon Transfer 2" folder in a sub-folder named "Kyoto".
 - ✓ If the folder already contains files with the same names as the pictures being copied, the new pictures will be renamed by adding numbers to the ends of the file names.



Transfer Preferences

The settings listed below can be accessed in the "Options" area "Preferences" tab. Default values are recommended.

Nikon Transfer 2 File Edit View Windo	ow Help		
C Options	Source: D800	Preferences	Primary Destination: C:\Users\user\Pictures\Nikon Transfer 2
Add additional informati XMP/IPTC Preset: None Enbed ICC color pro Marays use ratings a files (supported cam	on to files Edit ofile during transfer applied on original era only)	Transfer new files only Synchronize camera date and tim computer when camera is connec (supported ameras only) Synchronize	Deconnect automatically after transfer Delete original files after transfer Open destination folder with the following application after transfer: WewNX 2
D Thumbnails	0 of 15 file(s) selected	đ	
Transfer Queue Process:	15 file(s) in the queue		Start Transfer

Preferences

- Add additional information to files: Add XMP/IPTC metadata to pictures during transfer. Choose a preset from the menu or click Edit to modify the selected preset. The options listed below are available when Add additional information to files is selected. Default: On
- Embed ICC color profile during transfer: JPEG and TIFF files include the ICC color profiles embedded in the images when the pictures were taken. Default: Off
- Always use ratings applied on original files (supported cameras only): The ratings chosen with the camera are used in place of the labels specified in the XMP/IPTC preset. Default: On
- Transfer new files only: Only files that have not previously been copied to the computer will be transferred. Default: On
- Synchronize camera date and time to computer when camera is connected (supported cameras only): The camera clock is synchronized with the computer each time the camera is connected (the camera clock can also be synchronized with the computer by clicking **Synchronize**). This option applies only when a supported camera is connected via MTP/PTP, PTP, or IEEE 1394 (Firewire). Default: On

- Disconnect automatically after transfer: End the connection with the camera or memory card when transfer is complete. Default: On
- Delete original files after transfer: Delete transferred pictures from the camera or memory card when transfer is complete. Default: Off
- **Open destination folder with the following application after transfer**: Display the destination folder in the selected application when transfer is complete. The application can be selected from the menu: choose from ViewNX 2, Windows Explorer (or, in Mac OS, the Finder), or select **Browse...** to choose another application. **Default: On/ViewNX 2**
- Use Nikon Transfer 2 to transfer files such as Motion Snapshots, voice memos, and pictures taken with the Smart Photo Selector.

Thumbnails

At default settings, ViewNX 2 will launch when transfer is complete and display the pictures in the thumbnail area. Selected pictures are highlighted.



Click pictures to select or click or before or after the current picture.

Full-Screen Display

To view a picture <u>full screen (page 14)</u>, double-click the thumbnail.

Thumbnail Size

Use the slider at the top of the thumbnail area to adjust thumbnail size. Drag the slider left to shrink the thumbnails and increase the number of pictures visible in the thumbnail area, right to display thumbnails at a larger size.



Display Options

Use the buttons below to rotate pictures or display the focus area.



The focus point and rotate buttons can also be used in the <u>image viewer (page 13)</u> and <u>full-screen</u> (page 14) displays.

Selecting Pictures Finding Pictures

The Image Viewer

ViewNX 2 offers a choice of view modes. Select "Image Viewer" mode to display pictures as thumbnails across the bottom of the window, with the current picture shown at a larger size in a central image area.

To open the image viewer, click the view mode button at the left side of the display under the toolbar and select **Image Viewer**.



Thumbnails will be displayed in a "filmstrip" across the bottom of the window, with the current picture shown in the image area at the center.



Click a picture to display it in the image area or click or before or after the current picture.

Full-Screen Display

To view the picture full screen (page 14), double-click the picture in the image area.

🖉 Thumbnail Display

To return to the thumbnail view, click the view mode (button and select Thumbnail Grid.

Display Options

Use the buttons below to view or hide image information or choose the zoom ratio for pictures displayed in the image area.



Full-Screen Display

ViewNX 2 offers a choice of view modes. Select "Full Screen" mode to display pictures at a size that fills the monitor.

- **1** Select a thumbnail.
- 2 Click the view mode button at the left side of the display under the toolbar and select **Full Screen**.



The selected picture will be displayed at a size that fills the monitor.



Click or to display the picture before or after the current picture.

🖉 Thumbnail Display

Click **b** to exit the full-screen display, or click the view mode (**b** button and select **Thumbnail Grid** to return to the thumbnail view.

Display Options

Use the buttons below to choose the view mode, rotate pictures, view or hide image information, or choose the zoom ratio.

-	Choose the view mode.
3	Rotate the current picture 90° counterclockwise.
Ċ	Rotate the current picture 90° clockwise.
i	View or hide image information.
the the	View or hide histograms.
∃.	Fit pictures to the monitor (Fit to Screen) or display all pictures at the zoom ratio used for por- trait ("tall" orientation) pictures (Fit to Square).
≅ ×0,5 ×1,0 ×2,0 ×4,0 ▲	Drag the slider right to zoom in, left to zoom out. To view the entire image, drag the slider all the way to the left.
C	Exit to the previous view mode.

Photo Info (Metadata)

Information on the current picture is listed in the "Metadata" palette.



"Metadata" palette

🖉 <u>Metadata</u>

"Metadata" takes the form of text embedded in image files and may include file or photo information such as the date of recording, exposure, and focal length.

Viewing Metadata

To view metadata, click the 🚬 at the top of the "Metadata" palette.



V Meta	edata	Al
	File: Date Created: Date Modified: File Size:	DSC_001.JPG 9/27/2012 6:47:52 AM 9/27/2012 6:55:53 AM 120 KB 120 40
	inage oize.	1024 X 000
	Date Shot: ime Zone and Date: Image Quality:	00:00:00 Jpeg Fine (8-bit)
	Device: Lens: Focal Length: Focus Mode: AF-Area Mode: VR: AF Fine Tune:	Nikon D100 VR 80-400mm f/4.5-5.6D 300mm AF-S Single
	Aperture: Shutter Speed: Exposure Mode: Exposure Comp : Exposure Tuning: Metering:	f/5.6 1/200s Aperture Priority -0.3EV Matrix

🖉 The Palette Area

If the palette area is hidden, palettes can be displayed by clicking the **I** to the right of the thumbnail or image area.



Display Options

Use the menu in the palette title bar to choose the information visible in the "Metadata" palette (at default settings, all information is displayed). To display only selected categories, choose **Custom Settings...** and place checks next to the categories you wish to view.

√ Metadata	AI
▼ File Info 1	✓ All
File:	Basic
Date Created:	File & Camera Information
Date Modified: File Size:	XMP/IPTC Information
Image Size:	Custom Settings

Selecting Pictures Finding Pictures



When viewing pictures taken with the Smart Photo Selector (available on selected Nikon cameras), you can use the st button under the toolbar to choose whether to display the best shot candidates.

🕵 ViewNX 2 - C:\Users\user\Pictures\Nika	n Transfer 2\001						
File Edit Image View Window He	lp						
🖳 🥰 🜠 🗖 🙊 Browser Geo Tag. Edit. Transfer. Moyie Editor	E] Discus Point Play Voice Memo	S C Rotate 90°CCW Rotate 90°CW	Depture NX 2 Print Email Log	Matching Web Service SideShi	w Convert Files		
	Sort RBC -						📥 Filter
my Picturetown Favorite To ser	Selected: DSC_001.JPG (12) KB) Filtering Off: 15 files displayed		■ <u> </u>	Adjustments	Quick	- 4
					A V Metadata	Δ	-
51							

When the button is on (3), only the best shot will be displayed. Click the button to view the best shot candidates.



When the button is off (), the best shot candidates will be displayed together with the best shot. Click the button to hide the best shot candidates.



The Best Shot and Best Shot Candidates

The best shot is indicated by a 🚰 icon, the best shot candidates by 🔄 icons.

Best Shot Candidates

When the best shot candidates are hidden, any operations applied to the best shot also apply to the best shot candidates. For example, if protection is applied to the best shot when the best shot candidates are hidden, the best shot candidates will also be protected. When the best shot candidates are visible, however, ViewNX 2 treats them as separate images. Performing any of the following operations on the best shot candidates will permanently end their association with the best shot and prevent the best shot and best shot candidates from being handled as a group:

- Editing the pictures
- Rotating the pictures
- Renaming the pictures
- Moving the pictures to another folder
- Labeling or rating the pictures
- Editing picture metadata (XMP/IPTC information)
- Editing GPS data
- Editing or renaming the pictures in another application

Deleting the Best Shot and Best Shot Candidates

When the best shot candidates are hidden, deleting the best shot will also delete the best shot candidates. When the best shot candidates are visible, deleting a best shot candidate will not end the association between the best shot and the remaining candidates; if the best shot is deleted, however, the best shot candidates will no longer be grouped together and will be treated as separate images.

x

Ŧ

Slide Shows

To view the pictures in the filmstrip or thumbnail area in a slide show:

Click the 🔄 (Slide Show) button in the toolbar. 1



The dialog shown at right will be dis-2 Settings Dialog played. Adjust settings (page 18) and click **OK** to start the show.

OK to start the show.	Transitions No Effect
Ending the Slide Show Press Esc to exit the show before it is complete.	Show each slide for 3 sec.
	Show image information
	V Show Histogram
	Repeat Slideshow
	Don't show this dialog again
	OK Cancel

Toolbar

Show Slide Controls

Selecting Pictures

To select pictures for the slide show:

Click a picture in the thumbnail area to se-1 lect it. The selected picture is highlighted in gray.



Click additional images while keeping the 2 Ctrl key (or in Mac OS, the ℜ/command key) pressed.



To select two pictures and all images between them, click the pictures while pressing Shift.

3 Click the 🗾 (Slide Show) button in the toolbar to start the show.

🖉 Viewing All Images

To create a slide show that includes all images in the filmstrip or thumbnail area, click the 🔤 (Slide **Show**) button with one or no images selected.

Slide Shows

Slide Show Settings

The slide show settings dialog contains the following options:

- **Toolbar**: Choose whether rating, label, and other controls are displayed during the show.
- **Transitions**: Choose the transitions between slides.
- **Show each slide for**: Choose how long each slide is displayed.
- **Show image information**: Choose whether to display image information during the show.
- Show Histogram: Choose whether to display histograms during the show.
- **Repeat Slideshow**: If this option is selected, the slide show will repeat until you click so or press **Esc** to end the show.
- **Don't show this dialog again**: Select this option to start future slide shows without displaying the settings dialog.

Settings Dialog 📃	٢
Toolbar Show Slide Controls 🔹	
Transitions No Effect 🔹	
Show each slide for 3 sec.	
Show image information	
Show Histogram	
Repeat Slideshow	
Don't show this dialog again	
OK Cancel	

Slide Show Controls

The controls listed below can be displayed during the show.



Movie Playback

QuickTime ("*.mov") and AVI movies can be played in the image viewer and fullscreen displays. This section describes how to play movies in the image viewer.

Lat brage Ver Redax Per

Select a movie file in the filmstrip. The 1 first frame will appear in the image area.



Click **to** start movie playback.



Full-Screen Display

To view a movie full screen, highlight it in the filmstrip or thumbnail area and select Full Screen from the view mode menu.

Rating Movies

Although existing ratings (page 20) can be changed, ratings can not be assigned to previously unrated movies.

Movie Playback Controls

The controls listed below are available during movie playback.



- Click 💽 to start or resume playback, 💷 to pause.
- Click do rewind, Do fast forward. I | I

2



Ratings assigned in ViewNX 2 can also be viewed in Capture NX 2 and other Nikon software.



Finding Pictures Retouching

Sorting Pictures

Pictures can be sorted by name, date, <u>rating (page 20)</u>, <u>label (page 21)</u>, or file size or type. Rating or labelling pictures according to your own system can make them easier to find.

ViewNX 2 - C\Users\user\Pictures\Nikon Transfer 2\001		×
File Edit Image View Window Help		
📑 🗳 🔯 💁 🛞 []] 🖸 🏷 🔅 📕 🖬 🟙 Browser GeoTag Edit Transfer Move Editor Focus Pairt Ring Noce Meno: Rotate 90°CCW Rotate 90°CCW Coptue NX2 Print Email Log Matching V	Neb Service SideShow Convert Files	
🏭 + 🖕 -> 12 📓 🖆 - 🔚 🧃 Sort RBC +]]		📥 Filter
my Picturetown Favorite Fold	E Adjustments Quick	- 6
Sort ABC	A Mandan H	

For example, to sort pictures in ascending order by rating (one star, two stars, three stars ...):

- 1 Click the **Sort** triangle to display the sort menu.
 - The sort menu is not available in full-screen mode. To exit full-screen mode, select another view mode from the view mode menu at the top left corner of the display.
- 2 Select a sort option (in this example, Rating).
 - The currently selected option is indicated by a check mark.

Sort		
s Se	✓ ABC	Name
	Ô	Date Shot
	12:::	Date Modified
	МВ	File Size
	TYPE	File Type
	11	Label
	*	Rating
	~	Ascending
		D 11
		Descending
		Descending
Sort	★ •	Descending
Sort	ABC	Name
Sort <u>s</u> Se	ABC	Descending Name Date Shot
Sort sSe	★ - АВС 12	Descending Name Date Shot Date Modified
Sort sSe	ABC	Name Date Shot Date Modified File Size
Sort s_Se	★ - HBC D IIII IIII IVE	Name Date Shot Date Modified File Size File Type
Sort s	A - ABC	Name Date Shot Date Modified File Size File Type Label
Sort s Se	★ • RBC © © © © © © © © © © © © ©	Descending Name Date Shot Date Modified File Size File Type Label Rating

Descending

- **3** Select a sort order (in this example, **As-cending**).
 - The currently selected option is indicated by a check mark.

The pictures in the thumbnail area or filmstrip will be listed by the selected key in the selected order (in this example, in ascending order by rating).



Contents	Introduction	Image Transfer	Viewing Pictures	Selecting Pictures	Finding Pictures	Retouching Pictures	Printing Pictures	Other Features
Filtering								
Pictures can be pictures for slic how to filter pic	filtered by rating, de shows, deletior ctures by rating.	label, and file type n, and other opera	e, making it easier tions. This examp	to select	Choose a filter of we will adjust se four stars.	or filters from the op ettings to show onl	otions in the filter y pictures with a	bar. In this example, rating of from two to
1 Click Filter filter bar.	at the right side o	of the display under	er the toolbar to di	splay the	Multiple filters conselecting a rating from two to four	Rating fi	Iter	Cear Al e filter played. For example, after G pictures with a rating of
Filtering is	not available in full-sci	reen mode. To exit full-	screen mode, select ar of the display.	nother view	The thumbnail l lected filter.	ist and filmstrip will	I show only pictur	es that match the se-

🥖 <u>"Clear All"</u>

DSC_021.

To display all the images in the current folder, click **Clear All**.

DSC_022.JPG **** Image Transfer

Viewing Pictures | Selecting Pictures

tures Finding Pictures

es Other Features



Filtering Pictures by Rating

To filter pictures by <u>rating (page 20)</u>, use the rating filter sliders to choose the desired range of ratings. A check mark will appear next to the rating filter. To clear the filter, click the check mark.



Filter adjusted to display only pictures

Non-Consecutive Ratings

The ratings filter does not support non-consecutive ratings. For example, it can not be used to display only pictures with ratings of either one or five stars.

Filtering Pictures by Label

To filter pictures by <u>label (page 21)</u>, click the desired label in the label filter. To select multiple labels, keep the **Ctrl** key (or in Mac OS, the **#** /command key) pressed while clicking each label in turn. A check mark will appear next to the label filter. To clear the filter, click the check mark.



Filtering Pictures by File Type

To filter pictures by file type, choose an option from the file-type filter menu. A check mark will appear next to the selected type. Only one option can be selected at a time, although the **Images, Movies**, and **Show Voice Recordings** options can be used to filter images further. Select **All** to cancel file-type filtering.

All	•
✓ All	di
NEF NRW	I.
JPEG	
TIFF	
MPO	
Images	
Movies	
✓ Show Voice Recordings	

res Finding Pictures

The Edit Display

To edit pictures, click the *(Edit)* button in the toolbar. An edit area, filmstrip, and "Adjustments" palette will be displayed, with the current picture highlighted in the filmstrip and shown in the edit area.



Filmstrip

Tool Selection

Use the tool selection menu to choose the tools displayed in the "Adjustments" palette and use the scroll bar to scroll through the tools displayed.

The Tool Selection Menu

Use the menu in the palette title bar to choose the tools displayed in the "Adjustments" palette.



- All (default): Display all image adjustment tools.
- Quick: Display a selection of image adjustment tools.
- **Custom Settings...**: Choose tools from a tool selection dialog. Place checks next to the tools you want to display and click **OK**.

■ The Scroll Bar

Use the scroll bar to view tools not currently visible in the display.



Finding Pictures



Sharpness

Use the Sharpness tool in the "Adjustments" palette to sharpen outlines.

Click the 🛛 (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



Choose a thumbnail in the filmstrip to display the picture in the edit area. 2



Drag the scroll bar in the "Adjustments" 3 Sharpness palette to display the Sharpness tool and adjust sharpness using the slider or by entering a value in the text box. Choose from values between 0 (off) and 10: the higher the number, the greater the effect. The effects are visible on the picture in the edit area; for greater accuracy, zoom in on the image as described on page 13.

Sample



Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

Saving Changes

Click 🔛 ("Save") to save the edited picture under its current name, or 🕎 ("Save As") to save a copy under a new name. See page 32 for more information on saving JPEG and TIFF images, page 38 for information on saving NEF/NRW (RAW) images.

Selecting Pictures Finding Pictures

Contrast



Contrast

Use the Contrast tool in the "Adjustments" palette to adjust contrast.

Click the displayed (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the **Contrast** tool and adjust contrast using the slider or by entering a value between -100 and +100 in the text box. Choose lower values to reduce contrast, higher values to increase contrast, or select 0 to turn contrast adjustment off.

🖉 Sample



Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

🖉 Saving Changes

Click ("Save") to save the edited picture under its current name, or ("Save As") to save a copy under a new name. See <u>page 32</u> for more information on saving JPEG and TIFF images, <u>page 38</u> for information on saving NEF/NRW (RAW) images.

res Finding Pictures Reto

Brightness



Brightness

Use the Brightness tool in the "Adjustments" palette to adjust brightness.

Click the displayed. (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the **Brightness** tool and adjust brightness using the slider or by entering a value between –100 and +100 in the text box. Choose lower values to make the image darker, higher values to make it brighter, or select 0 to turn brightness adjustment off.





Cancelling Changes

Click Reset to cancel all changes and restore tools to their default settings.

🖉 Saving Changes

Click 🔛 ("Save") to save the edited picture under its current name, or 🔯 ("Save As") to save a copy under a new name. See <u>page 32</u> for more information on saving JPEG and TIFF images, <u>page 38</u> for information on saving NEF/NRW (RAW) images.

Finding Pictures Retouch

Other Features

Free Crop
 1 x 1

3 x 4 Landscape

4 x 6 Landscape

5 x 7 Landscape

8 x 10 Landscape

9 x 16 Landscape

3 x 4 Portrait

4 x 6 Portrait

5 x 7 Portrait

8 x 10 Portrait 9 x 16 Portrait

2592 x 1944 1944 x 2592



Crop

[1]

Use the **Crop** tool in the "Adjustments" palette to trim unwanted areas from images.

Click the *(Edit)* button in the toolbar. The current picture will appear in



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the **Crop** tool.

Сгор			
	Free Crop		•
		Start	Apply

- **4** Choose an aspect ratio from the pulldown menu. Select **Free Crop** for a freesize crop, or choose a fixed aspect ratio to constrain the crop according to how the final picture will be printed or displayed.
 - For example, choose 8 × 10 Portrait when ordering a 8" × 10" portrait print, or 9 × 16 Landscape for a picture that will be displayed on an HDTV.
- 5 Click Start. The cursor will change to drag the cursor over the image to select the crop.



Positioning the Crop

To position the crop, place the cursor inside the crop borders (the cursor will change to \oplus) and drag the crop to the desired location.





Image Transfer V

Viewing Pictures Selecting Pictures

ctures Finding Pictures

Other Features



Crop

Resizing the Crop

To resize the crop, place the cursor over one of the crop borders (the cursor will change to a double arrow) and drag the border until the crop is the desired size.





If an option other than **Free Crop** is selected, the crop will automatically be adjusted to maintain the selected aspect ratio.

6 To crop the picture, click **Apply** or double-click inside the crop.



To cancel the operation before cropping the picture, click Cancel.

<u>"Use Gray Point"</u>

Other image adjustments can be made before the crop is applied without cancelling the crop. Note, however, that the crop will be cancelled if **Use Gray Point** is selected for **White Balance** before the crop is applied.

Cropping Multiple Pictures

Pictures are cropped to the selected aspect ratio, which may produce unexpected results with some images. If multiple pictures are selected, the first picture in the selection (the leftmost picture in the top row of the selection in the thumbnail area or the leftmost picture in the selection in the filmstrip) will determine the aspect ratio.

Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

Saving Changes

Click 🔛 ("Save") to save the edited picture under its current name, or 🔯 ("Save As") to save a copy under a new name. See page 32 for more information on saving JPEG and TIFF images, page 38 for information on saving NEF/NRW (RAW) images.

Selecting Pictures Finding Pictures

Straighten



Straighten

Use the Straighten tool in the "Adjustments" palette to straighten pictures.

Click the displayed. (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the Straighten tool and straighten the picture using the slider or by entering a value between -10.0 and +10.0 in the text box. Choose lower values to rotate the picture to the left, higher values to rotate it to the right, or select 0 to turn straightening off.

🖉 Sample



Straightening Pictures

Pictures are automatically cropped after straightening to square the edges, making the straightened picture smaller than the original.

Cancelling Changes

Click Reset to cancel all changes and restore tools to their default settings.

🖉 Saving Changes

Click ("Save") to save the edited picture under its current name, or ("Save As") to save a copy under a new name. See page 32 for more information on saving JPEG and TIFF images, page 38 for information on saving NEF/NRW (RAW) images.

ctures Finding Pictures

Saving JPEG and TIFF Pictures

The additional ("Save As") and a ("Save") buttons are used to save JPEG and TIFF pictures after retouching. To abandon all changes and restore the original image without saving it to disk, click **Reset**.



😻 ("Save As")

Save changes to a new file, leaving the original image untouched.

- After retouching the picture, click
 [™] ("Save As"). The dialog at right will be displayed.
- **2** Choose a folder and enter a file name.
- 3 Click Save.



💾 ("Save")

Save the retouched picture under its original file name.

After retouching the picture, click ("Save").
 A confirmation dialog will be displayed.

Please co	onfirm				
A backup copy of the previously saved JPEG/TIFF image will be created in the Originals folder.					
	You can change this setting by using the Options dialog.				
	Don't show this dialog again.				
	ОК				

2 Click **OK**. The retouched picture will be saved under its original file name; at default settings, a copy of the original, unmodified image will be created in the "Originals" folder.

The "Originals" folder is automatically created in the same folder as the current picture.

DJPG DJPG DJPG DJPG DJPG	nals
▼ □ □ □ 1 2 3 4 5 6 7 8 9 0 ॼ ★ ★ ★ ★ ★	◀ 5/5 ►

<u>Netouching Multiple Pictures</u>

When multiple pictures are selected, any changes to the picture in the edit area also apply to the other pictures in the selection (in the case of tools that apply only to specific image types, the changes will be applied only to pictures of the supported type; the remaining pictures are unaffected).

Confirm Image Change

If you select another picture or attempt to exit the edit display without first saving changes, a confirmation dialog will be displayed. Click **Yes** to save the picture under its current file name.

Convert File

The JPEG, TIFF, and NEF/NRW (RAW) pictures currently displayed in the image or edit areas or selected in the thumbnail area or filmstrip can be exported as JPEG or TIFF files. When exporting pictures, you can choose the size and opt to strip out photo info, XMP/IPTC information, and color profiles.

- Select pictures for export.
- Click the 📷 (**Convert File**) button in the toolbar.

- 6 × e Edit Image View Window Help 🌠 🙇 🎡 []

The following dialog will be displayed. Adjust settings as desired.

/	Choose a format for the exported pictures.
Convert Files	Use the slider to choose the compression ratio (image quality) when exporting pic- tures in JPEG format.
Original Image Size: 3872 x 2592 pixels Quality: High Quality	Select this option to export pictures at a selected size.
Change the image size Long Edge: 3872 pixels Short Edge: 2592 pixels Remove camera setting information	Use these options to strip photo info, XMP/ IPTC information, and/or color profiles from the exported pictures.
Remove XMP/IBTC information Remove ICC color profile Save in: The same folder as the original file Specified Folder C.\Users\user\Pictures Browse	Choose the destination folder for the ex- ported files. To choose a specific folder, se- lect Specified Folder and click Browse
Create a new subfilder for each file conversion Naming Options Change file names Naming Options Total Number of Files: 1 Convert Cancel	Select this option to export the selected pictures to a sub-folder automatically cre- ated in the selected folder.

Select this option to rename the exported copies.

4 Click **Convert** to export the pictures to the selected destination. If pictures with the same names already exist at the destination, the exported copies will be renamed by adding "_01" to the file name. The originals remain in the source folder.

JPEG Files

JPEG files exported in JPEG format may suffer a drop in image quality due to repeated compression.

Export

The following can not be exported:

- Movies
- 3D images in MPO format
- WAV audio files
- NDF files containing Image Dust Off reference data
- Files saved in NEF (RAW) format or converted from NEF (RAW) to JPEG or TIFF in Capture NX
- NEF (RAW) files edited using the nik Color Efex Pro 2.0 plug-ins for Nikon Capture 4 or PictureProject
- NEF (RAW) pictures shot using optional Picture Controls not installed with ViewNX 2

Files edited in certain external applications

If the current selection includes both files that can exported and files that can not be exported, only the former will be exported.

Creating Movies from Motion Snapshots

Follow the steps below to save Motion Snapshots in MOV format.

Motion Snapshots

Motion Snapshots (available with supported Nikon cameras) combine photographs with brief movie vignettes. In ViewNX 2, Motion Snapshots are indicated by a 🜌 icon.

1 Select a Motion Snapshot.



2 Select Convert Motion Snapshot to Movie in the File menu.

File		
Ne	ew Folder	Ctrl+N
La	unch Transfer	
	en with Capture NX 2	Ctrl+O
La	unch Movie Editor	
0	oen With	•
O	oen in Explorer	
La	unch Picture Control Ut	tility
	ect	
Pr	otect Files	•
Re	name	F2
	ve	Ctrl+S
	ve As	
Co	onvert Files	Ctrl+E
En	nail	
W	eb Service	•
	ice Memo	×.
Ex	port File & Camera Info	rmation
Co	onvert Motion Snapshot	to Movie
Pa	ge Setup (Ctrl+Shift+P
Pr	int	Ctrl+P
Ex	it	Ctrl+Q

3 The dialog shown below will be displayed. After navigating to the desired folder and choosing a file name, click **Save** to export the Motion Snapshot as a QuickTime ("*.mov") movie. The original remains in the source folder.

🕵 Convert Motion Snapshot	to Movie			×
U Libraries	▶ Videos ▶	▼ ∮	Search Videos	٩
Organize 🔻 New fold	er			- 0
Favorites	Videos library Includes: 2 locations		Arrange by:	Folder 🔻
SkyDrive	2.0			
Documents	Sample Videos			
Music	Sumple videos			
Pictures				
Videos				
-				
File name: NMS	_0020			-
Save as type: mov(*.mov)			-
Hide Folders		(Save	Cancel

Selecting Pictures Finding Pictures



Retouching NEF/NRW (RAW) Pictures

Introduction

The tools described on the following pages are available only with NEF/NRW (RAW) pictures.

🖉 NEF/NRW (RAW)

NEF/NRW (RAW) formats ("*.nef", ".nrw") record unprocessed data from the camera image sensor separately from camera and image retouch settings, allowing pictures to be retouched multiple times without affecting the original image data.

Exposure Compensation

Adjust the exposure of NEF/NRW (RAW) pictures.

1 Click the 🗹 (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the Exposure Comp. tool and adjust exposure using the slider or by entering a value between -2.0 and +2.0 in the text box.



🖉 Sample



Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

🖉 Saving Changes

Click 🚔 ("Save") to save the edited picture under its current name, or 🔯 ("Save As") to save a copy under a new name. See page 38 for more information.

s Other Features



Retouching NEF/NRW (RAW) Pictures

White Balance

Adjust white balance for NEF/NRW (RAW) pictures.

Click the *(Edit)* button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



3 Drag the scroll bar in the "Adjustments" palette to display the White Balance tool and choose the desired setting from the menu.



4 If an option other than **Recorded Value** is selected, you can choose the color temperature by dragging the **Fine Adjustment** slider or entering a value in the text box (the permitted values vary with the white balance option selected), and the tint by dragging the **Tint** slider or entering a value between –12 and +12 in the text box (choose lower values for less green and more magenta, higher values for the opposite effect).

Vhite Balance Calculate Automatically Fine Adjustment Tint

Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

Saving Changes

Click 🔛 ("Save") to save the edited picture under its current name, or 🔯 ("Save As") to save a copy under a new name. See page 38 for more information.

Viewing Pictures Selectin

Selecting Pictures Finding Pictures

Other Features

Picture Controls

Choose a Picture Control for NEF/NRW (RAW) pictures.

Click the displayed (Edit) button in the toolbar. The current picture will appear in the edit area and the "Adjustments" palette will be displayed.



2 Choose a thumbnail in the filmstrip to display the picture in the edit area.



- 3 Drag the scroll bar in the "Adjustments" palette to display the **Picture Control** tool and then choose the desired Picture Control from the menu.
 - **[SD] Standard**: Standard processing for balanced results.
 - [NL] Neutral: Minimal processing for natural results. Choose for pictures that will later be extensively processed or retouched.



Retouching NEF/NRW (RAW) Pictures

- [VI] Vivid: Pictures are enhanced for a vivid, photoprint effect.
- [MC] Monochrome: Display the picture in monochrome.
- **[PT] Portrait**: Process portraits for complexions with natural texture and a rounded feel.
- [LS] Landscape: Produces vibrant landscapes and cityscapes.

Nikon Picture Controls, optional Picture Controls, and Picture Controls created with the Picture Control Utility can also be selected. To restore the Picture Control in effect when the picture was taken, select **Recorded Value**.

Cancelling Changes

Click **Reset** to cancel all changes and restore tools to their default settings.

🖉 Saving Changes

Click ("Save") to save the edited picture under its current name, or ("Save As") to save a copy under a new name. See page 38 for more information.

■ The Nikon Picture Control Utility

Use the Nikon Picture Control Utility to create, edit, import, and export custom Picture Controls.

COOLPIX Cameras

NEF (RAW) photographs shot with COOLPIX-series cameras are not supported.

Finding Pictures Ret

Saving NEF/NRW (RAW) Pictures

Introduction

The a ("Save As") and a ("Save") buttons are used to save NEF/NRW (RAW) pictures after retouching. To abandon all changes and restore the original image without saving it to disk, click **Reset**.



😻 ("Save As")

Save changes to a new file, leaving the original image untouched.

- 1 After retouching the picture, click 🕎 ("Save As"). A "Save As" dialog will be displayed.
- **2** Choose a folder and enter a file name.
- 3 Click Save.

💾 ("Save")

Click 🔛 ("Save") to save the retouched picture under its original file name.

Saving the Original

Because the NEF and NRW (RAW) formats store image data separately from camera settings and image adjustments, the original picture can be restored at any time.

Click ("Restore Original") to undo all image adjustments and restore the original camera settings.



All image adjustments will be lost.

2 Click 🔛 ("Save") to save the picture.

<u>Mathematical Structures</u> Retouching Multiple Pictures

When multiple pictures are selected, any changes to the picture in the edit area also apply to the other pictures in the selection (in the case of tools that apply only to specific image types, the changes will be applied only to pictures of the supported type; the remaining pictures are unaffected).

Confirm Image Change

If you select another picture or attempt to exit the edit display without first saving changes, a confirmation dialog will be displayed. Click **Yes** to save the picture under its current file name.

Exporting NEF/NRW (RAW) Pictures in JPEG/TIFF Format

To export NEF/NRW (RAW) pictures in JPEG/TIFF format, click the 📰 (**Convert File**) button in the toolbar and select JPEG format (page 33).



Other Image Adjustment Tools

In addition to the sharpness, contrast, brightness, crop, and straighten tools, ViewNX 2 offers the tools below.

Highlight Protection/Shadow Protection

Preserve details in highlights and shadows. Available with JPEG, TIFF, and NEF/NRW (RAW) images.

Highlight Pr	otection			^
É			0	
Shadow Pro	otection			
É			 0	

D-Lighting HS

Brighten shadows in backlit or poorly-lit pictures or reduce loss of detail in highlights. Available with JPEG, TIFF, and NEF/NRW (RAW) images.

Color Booster

Adjust vividness (color saturation) in JPEG, TIFF, and NEF/NRW (RAW) images.

Auto Red-Eye

Reduce "red-eye" in pictures taken with a flash.

Axial Color Aberration

Reduce blurred colors caused by axial color aberration in JPEG, TIFF, and NEF/NRW (RAW) images.

Axial Colo	or Aberrati				
	Auto				
				50	Ξ

People

📃 On

💿 Natur

Axial color (chromatic) aberration (also referred to as "longitudinal chromatic aberration") is caused by the lens focusing different colors (wavelengths) of light at slightly different distances, resulting in blurring around objects in the focal plane, particularly in the vicinity of very bright objects and in pictures taken with high-power lenses.

Auto Lateral Color Aberration

Automatically reduce colored fringes and halos caused by lateral color aberration in JPEG, TIFF, and NEF/NRW (RAW) images.



Lateral color (chromatic) aberration (also known as "transverse chromatic aberration") is caused by the lens focusing different colors (wavelengths) of light at slightly different positions or magnifications in the focal plane, resulting in colored fringes or halos around objects at the periphery of the image.





2 Click ► to start playback and click when the desired frame is reached. When the movie is paused, the and ► buttons can be used to rewind or advance the movie one frame at a time.

ave As Image	
File name:	Name the new file.
Folder: C:\Users\user\Pictures Browse	Click Browse to choose a destination.
File type: JPEG	
Quality: High Quality	Choose the compression ratio (image quality).
Image size Original size:	
1920 x 1080 pixels Change image size Long edge: 1920 pixels Short edge: 1080 pixels	To save the picture at a size other than the original frame size, select Change image size and specify the length of the long edge in pixels.
Save Cancel	

Combining Movies or Stills

Follow the steps below to combine selected stills or movie clips to create an original movie.

Select the pictures and click 📓 (**Movie Editor**) in the tool bar to launch Nikon Movie Editor.



- To select multiple images, drag to select the desired pictures in the thumbnail area or use the **Shift** or **Ctrl** (or in Mac OS, the **#**/command) key. See <u>page 17</u> for more information.
- 2 Select pictures in the Nikon Movie Editor "Source" tab and click E ("Adds to storyboard") to add the pictures to the storyboard. Drag pictures to arrange them in the desired order.
 - To choose the transitions between the different elements of the movie, open the "Transition" and drag the desired transitions into the small frames in the storyboard. To add background music, open the "Audio" tab and choose a WAV or AAC audio file (files protected by Digital Rights Management can not be used).



3 Click 🞯 ("Creates movie").



4 The dialog shown below will be displayed. Adjust settings as desired and click **Create** to save the movie.

Create movie	
File name: New movie 1	Name the new file.
Folder: C:\Users\user\Videos Browse	Click Browse to choose a destination.
File type: MOV (H.264/AAC)	Choose the file type.
Settings Size: 1920 × 1080(16:9)	
Frame rate: 30fps	Choose the frame size and rate.
Audio: 48 kHz 16-bit Stereo	
Create Cancel	

The Movie Editor

Creating Trimmed Copies

Follow the steps below to cut unwanted footage from the beginning or end of a movie.

Select the movie and click 📓 (**Movie Editor**) in the tool bar to launch Nikon Movie Editor.



2 Select the movie in the Nikon Movie Editor "Source" tab and click E ("Adds to storyboard") to add the movie to the storyboard.



3 Select the movie in the storyboard and click **("Trims movie"**).



- **4** The dialog at right will be displayed. Play the movie back; when you reach the start of the section you wish to keep, pause playback and click **IN**.
 - Click > to start and resume playback and click
 to pause. When the movie is paused, the
 and > buttons can be used to rewind or advance the movie one frame at a time.



- **5** Resume playback. When you reach the end of the section you wish to keep, pause playback and click **OUT**.
- **6** Click **OK** to trim the movie and return to Nikon Movie Editor.
- **7** To save the trimmed copy, select it in the storyboard and click
 ("Creates movie") to display the "Create movie" dialog.
- 8 Adjust settings as desired and click **Create** to save the trimmed copy.

Finding Pictures Retor

Printing Pictures

To print pictures on a printer connected to the computer, select the pictures and click the [] (Print) button in the toolbar. The "Print" dialog will be displayed.



Adjust settings as described on the following page and click **Print** to print the picture as shown in the preview.

🖉 Notes on Printing

Pictures can not be printed from the full-screen display.

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

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

The "Print" Dialog

Print Type		 Full Page: Print one picture per page. Index Print: Print multiple images per page (page 45). Standard Photo Sizes: Print pictures at a standard photo size. ViewNX 2 automatically chooses the number of pictures printed on each page. 					
Printer Setup	Printer	Click Settings to choose the printer and paper size and adjust other printer settings.					
	Printer Type	Choose Inkjet when printing on an inkjet printer.					
	Print Priority	When printing NEF/NRW (RAW) pictures, choose Speed to use the preview data embed- ded in the image for faster printing, or Quality to use the original image data for higher quality ouput.					
	Copies	Choose the number of copies of each page printed.					
Page Layout	Rotate to fit	Rotate pictures to print them at the largest possible size.					
	Crop images to fit	Pictures are enlarged to fill the print area. Portions that do not fit in the print area are cropped out.					
	Background Color	Choose the background color. Choose White to print with no background.					
	Border width	Choose the width of the borders printed around the image (the color of the borders varies with the background color). Choose 0 to print without borders.					
	Copies of each image	Choose the number of copies of each photo printed.					
Print Information		Print the file name, date of recording, or photo information under each picture (page 44).					

s Finding Pictures Ret

Other Features

Print Information

To choose the information printed under each picture, select **Print Information** in the "Print" dialog (page 43), click **Settings...**, and adjust the settings described on the following page.



V 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.

Advanced Print Information Settings

Dat	Date Shot	Print the date of recording in the position selected for Position .
e/Tir	Time Shot	Print the time of recording together with the date.
ne Shot	Font Settings	Choose the font, style, 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 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/F	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).
ooter	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 point size for the header, footer, and page number. The results can be previewed in the "Sample" area.

Selecting Pictures Finding Pictures Retouching



Index Prints

To print multiple images per page, select **Index Print** for "Print As" in the "Print" dialog (page 43) and choose the number of pictures printed per page.



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

∎ Image Size

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 \times 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

	Contents	Introduction	Image Transfer	mage Transfer Viewing Pictures		
Web Services						
	ViewNX 2 can be used to manage, share, and publish pictures on social net- working sites such as Facebook, YouTube, and Nikon's my Picturetown.					
	🖉 my Picturetown					
	For more information	on on Nikon's my Pictu	retown Internet picture	e sharing and storage s	ervice, visit:	

Logging In in to my Picturetown

http://mypicturetown.com

This section describes how to upload pictures to my Picturetown. If you do not have a my Picturetown account, visit <u>http://www.mypicturetown.com</u> to obtain an account before proceeding.

1 Click the **Login...** button in the "my Picturetown" tab to open the "my Picturetown Settings" dialog.

- 10 AND CALL & ADD - AND -	6	-
Wiewiwk 2 - C:\Users\user\Pictures\Nikon	my Picturetown Settings	×
File Edit Image View Window Help		
📑 🥶 🌠 🔩 😥 Browser GeoTag Edit, Transfer Movie Editor F	Login Settings	
🏭 - 🔶 🛍 就 - 🔚 🎒 S		
my Picturetown Favorite Folders	Email ID:	
Login to my Picturetown to easily upload your files from ViewNX 2, my	Password:	
Picturetown allows you to store, organize, and share your files online.	Save Password	
	Automatically login when ViewNX 2 is launched	
	I lolaad Settinge	
Folders	opidad Settings	
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2 Enter your e-mail ID and password.

To skip Steps 2 and 3 in future, select **Save Password** and **Automatically login when ViewNX 2 is launched**.

- 3 Select the size for pictures uploaded to my Picturetown and choose whether to use XMP/IPTC keywords embedded in the image data as my Picture-town tags. To add all pictures with an XMP/IPTC rating to your my Picture-town favorites, select Add XMP/IPTC rating as my Picturetown favorites.
- **4** Click **OK** to log in to my Picturetown.

V Uploading Pictures to my Picturetown

An Internet connection is required. The following file types are supported: JPEG (RGB), NEF/NRW (RAW), and TIFF images and movies and audio files in MOV and AVI formats (note that my Picture-town displays only the first frame of movies uploaded to the site).



Web Services

Uploading Pictures

Follow the steps below to upload pictures to my Picturetown.

- **1** Select pictures.
 - ✓ To select multiple images, drag to select the desired pictures in the thumbnail area or use the Shift or Ctrl (or in Mac OS, the ℜ/command) key. See page 17 for more information.
- 2 Click the 🛃 (Web Services) button in the tool bar and select Upload to my Picturetown....

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- 3 An album selection dialog will be displayed. To upload pictures to a new album, select **Create new album** and enter the album name. To upload pictures to an existing album, select **Use existing album** and choose the desired album.
- **4** Click **OK** to upload the pictures.

Viewing Pictures

Follow the steps below to view photographs and movies uploaded to my Picturetown.

- **1** Click the **Login...** button in the "my Picturetown" tab and log in to my Picturetown.
 - To skip this step in future, select Save Password and Automatically login when ViewNX 2 is launched.
- 2 Select an album in the "my Picturetown" tab, or select **All Photos** to view all uploaded pictures. To view pictures in all albums you have created, select **My Albums**.



🖉 Sharing Albums

To share photos with others, click the i (Web Services) button in the toolbar, select Share (my Picturetown)..., and enter the e-mail address of the people with whom you wish to share the pictures. To view albums others have shared with you, select Albums shared with Me in the "my Picturetown" tab.



GPS

GPS data embedded in photographs (and in the case of some cameras, movies) can be used to create a map showing where the pictures were taken. Even if your camera does not support GPS, location data can be added to pictures by placing pins on the map in the locations the pictures were taken or by entering coordinates obtained from a third-party GPS unit.

To display the map, click the <a>[I] (GeoTag) button in the toolbar. Pin icons (<a>[I] indicate the locations where pictures were taken.



The GPS Toolbar



Contents	Introduction	Image Transfer	Viewing Pictures	Selecting Pictures	Finding Pictures	Retouching Pictures	Printing Pictures	Other Features
Sending Pic	tures by E-Mai	il						
 Pictures selected in ViewNX 2 can be appended to e-mail messages automatically created in the default e-mail application for your operating system. <i>E-Mail Applications</i> The default e-mail application can be selected in the Internet Options control panel (Wiindows) or in the preferences dialog for the Mail application (Mac OS). ViewNX 2 is compatible with the applications listed below. Windows: Windows Live Mail, Windows Mail, Outlook Express, Outlook, Thunderbird 10 Mac 05: Mail, Entourage 2008, Outlook for Mac 2011, Thunderbird 10 Sending Individual Pictures Send selected pictures as separate attachments. 				automati- m. (Wiindows) vith the ap-	 Choose a format and size for the attachments from the Image settings menu. To send the pictures at their original sizes and in their original formats, including all metadata, choose Original; to send the pictures at their original size but convert the attachments to JPEG format, select JPEG (original size). The aspect ratio and orientation of the original images are maintained. Choose a compression ratio (image quality). Dragging the slider to the left reduces the size of the attachment but produces poorerquality images, while dragging the slider to the right results in improved image quality but also produces larger files. 			
 Send selected pictures as separate attachments. Select pictures. To select multiple images, drag to select the desired pictures in the thumbnail area or use the Shift or Ctrl (or in Mac OS, the %/command) key. See page 17 for more information. Click the C (EMail) button in the tool bar to display the "EMail" dialog. With the Company of the Company o				area or use formation. alog. Image: I	Click Send. The will be opened v ending Pictures by E-Mail ures are sent in JPEG for pmatically converted t included.	default e-mail app vith the selected pi ormat, regardless of the o the sRGB color space	lication will launch ctures appended. format of the original. e; XMP/IPTC informatic	The appended pictures are on and other metadata are
3 Open the " tiple phote	Send as" menu and os (attachments).	d select Mul -	nd as: Multiple photos (attachments) Multiple photos (attachments) Orice invex print photo (single o					

Sending an Index Image

Send multiple selected pictures as a single attachment.

- **1** Select pictures.
 - To select multiple images, drag to select the desired pictures in the thumbnail area or use the **Shift** or **Ctrl** (or in Mac OS, the **#**/command) key. See <u>page 17</u> for more information.
- 2 Click the 🔤 (EMail) button in the tool bar to display the "EMail" dialog.



- **4** Choose the desired size.
- **5** Choose a compression ratio (image quality).
 - Dragging the slider to the left reduces the size of the attachment but produces poorerquality images, while dragging the slider to the right results in improved image quality but also produces larger files.
- **6** Choose a layout.
 - 7 The layouts available depend on the option selected for Size.

- **7** To display the file name under each picture, select **Use name as title**. Select a background color as desired.
- 8 Click Send. The default e-mail application will launch and a new message will be opened with an index print of the selected pictures appended.