Nikon

En

Wireless Mobile Utility (Android) User's Manual

Install the Wireless Mobile Utility on your smart device (smartphone or tablet) to download pictures from a camera or take pictures remotely.

The Wireless Mobile Utility supports the following cameras. See the section for your camera for more information on using the Wireless Mobile Utility.

A *D750, D610, D600, D7200, D7100, D5500, D5300, D5200, D3300, Df* 📖 2–31

B *D3200, COOLPIX A* 📖 32–60

C *Nikon 1 Cameras* 📖 61–88

D *Other COOLPIX Cameras ** 📖 89–121

* Available only with models that feature built-in Wi-Fi or support the optional wireless mobile adapter. For information on supported COOLPIX cameras with built-in Wi-Fi, visit:

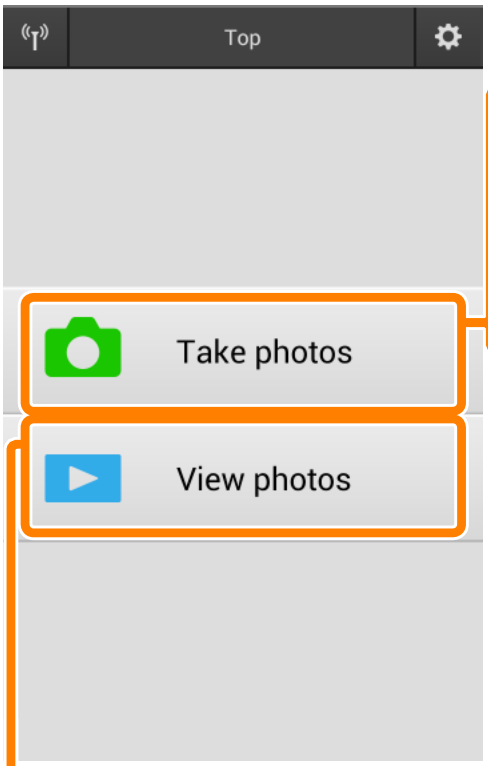
https://play.google.com/store/apps/details?id=com.nikon.wu.wmau&hl=en

A D750, D610, D600, D7200, D7100, D5500, D5300, D5200, D3300, Df

This section describes the options available when the Wireless Mobile Utility is used to connect to D750, D610, D600, D7200, D7100, D5500, D5300, D5200, D3300, and Df cameras.

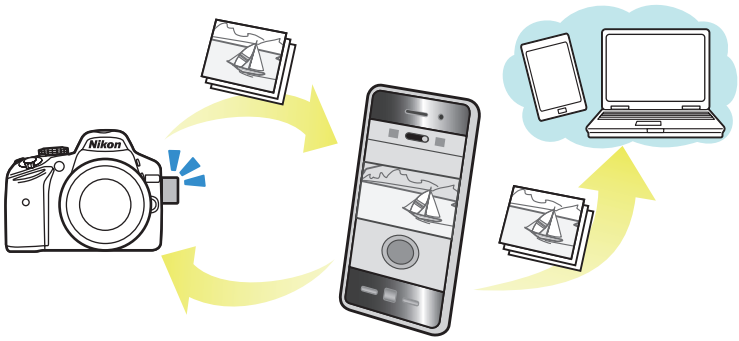
Features

Use the Wireless Mobile Utility to:



Take pictures remotely (11): Tap the shutter icon in the Wireless Mobile Utility to take pictures and download them to the smart device.

Download pictures as they are taken (14): Take pictures with the camera and save them to the smart device.



View pictures (16): View the pictures stored on the smart device or the camera memory card.

Download pictures (20): Download existing pictures from the camera memory card.

Share pictures (23): Share pictures via e-mail or upload pictures to photo-sharing sites.

For information on establishing a connection, see page 4.

Notices

- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form without Nikon's prior written permission.
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System Requirements

Before installing the Wireless Mobile Utility, confirm that your smart device meets the following system requirements:

OS	Android 5.0 or later
Wireless LAN	11b/g/n
Screen resolution	800 × 480 pixels (WVGA) or higher

☑ Using This Application for the First Time

You must accept the terms and conditions of the End User License Agreement (EULA) before connecting.

☑ Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (📖 6). Be sure to enable Wi-Fi security on the smart device after connecting for the first time.

Installing the App

1 **Locate the app on Google Play.**
Connect to Google Play on the smart device and search for "Wireless Mobile Utility".

2 **Install the app.**
Install the Wireless Mobile Utility.

Establishing a Wireless Connection

The procedure varies with the type of camera.

Cameras with Built-in Wireless LAN

See the camera manual.

NFC Devices

If both the camera and smart device support NFC, a connection can be established simply by touching the smart device to the camera.

1 **Enable NFC on the smart device.**
See the documentation provided with the device for details.

2 **Touch the NFC antenna on the smart device to the N (N-Mark) on the camera.**
The Wireless Mobile Utility will launch and establish a connection to the camera; connection status is shown in the camera monitor. See pages 11 and 16 for information on taking and viewing pictures once a connection is established.

NFC Antennas

See the documentation for the camera and smart device for information on the locations of the NFC antennas.

Cameras Without Built-in Wireless LAN or NFC

1 Connect the wireless mobile adapter.
Attach the wireless mobile adapter to the camera and turn the camera on. See the manual supplied with the wireless mobile adapter for details.

2 Ready the smart device.
Select **Wi-Fi settings** > **WPS button connection**. The smart device will wait for a signal from the camera.

3 Press the WPS button.
Press the WPS button on the wireless mobile adapter for about 5 s until the LED on the wireless mobile adapter flashes red and green.

4 Launch the Wireless Mobile Utility.
When a connection is established, the LED on the wireless mobile adapter will glow green and the main dialog for the Wireless Mobile Utility will be displayed on the smart device. For information on taking pictures, see page 11. For information on viewing pictures, see page 16.

NFC

NFC (Near Field Communication) is an international standard for short-range wireless communications technology.

WPS

WPS (Wi-Fi Protected Setup) is a standard designed to make it easy to establish a secure wireless network. For information on the steps involved and the length of time the smart device will wait for a connection, see the documentation supplied with the smart device.

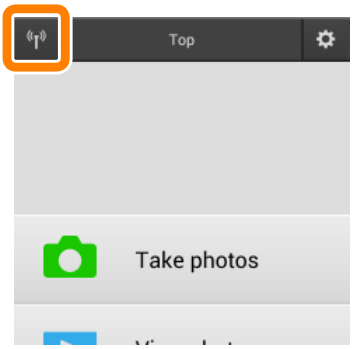
Manual Wi-Fi Connections

1. Display Wi-Fi settings for the smart device.
2. Select the appropriate SSID (the default SSID begins with "Nikon"). If you are using a wireless mobile adapter, the LED will light green when a connection is established.
3. Enable Wi-Fi security (7).

Connection Status

Connection status is shown by an icon in the home display:

- : Connection established.
- : No connection. Tap the icon to open the smart device **Wi-Fi settings** menu and check Wi-Fi settings.



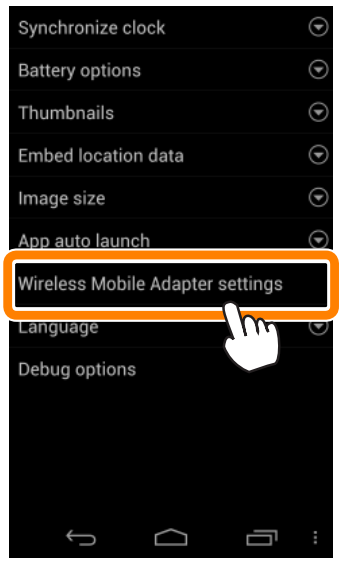
The Wireless Mobile Adapter

While the adapter is inserted, the camera exposure meters will not turn off; monitor the camera battery level to ensure that the camera does not power off unexpectedly. In addition, some camera menu items may be grayed out and unavailable and the camera can not be used for playback or live view. Movie recording can not be used.

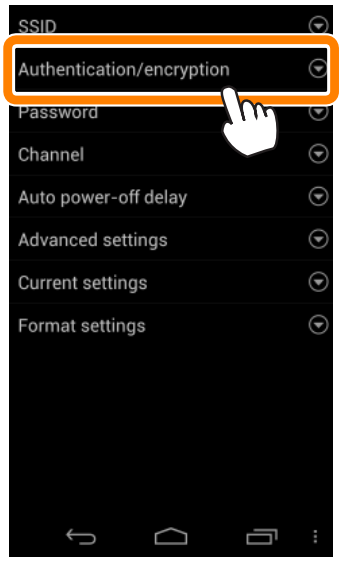
Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (📖 6). Security can be enabled by opening the Wireless Mobile Utility settings menu (📖 29) and following the steps below.

1 Tap **Wireless Mobile Adapter settings.**



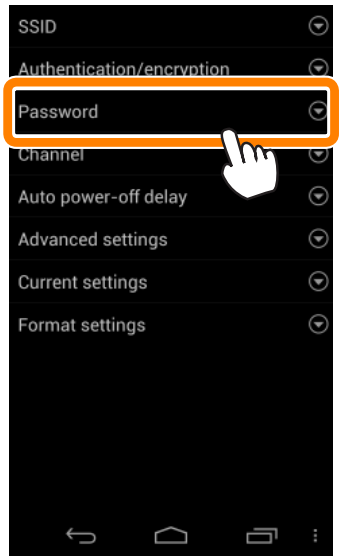
2 Tap **Authentication/encryption.**



3 Select WPA2-PSK-AES.

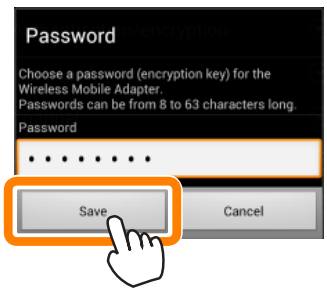
Select **WPA2-PSK-AES** and tap **OK**.

4 Tap Password.



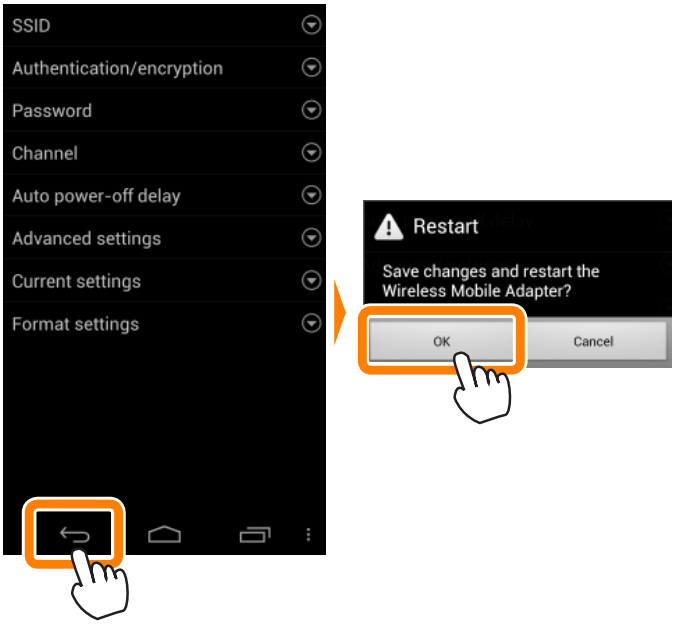
5 Enter a password.

Enter a password and tap **Save** (30). Passwords may be from 8 to 63 characters long.



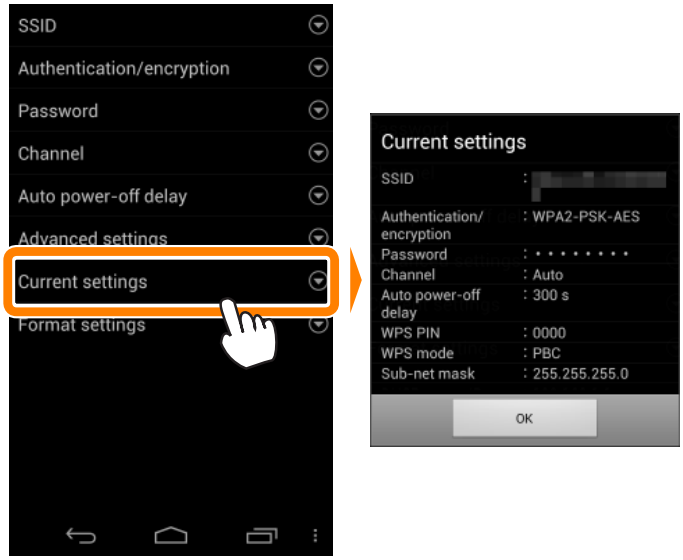
6 Enable wireless security.

Tap . A confirmation dialog will be displayed; tap **OK**.



Viewing Wireless Security Settings

To view the current password and authentication/encryption settings, tap **Current settings** in the Wireless Mobile Adapter settings menu.



Security

Although one of the benefits of a wireless-enabled device is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

- **Data theft**: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- **Unauthorized access**: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled.

Taking Photos

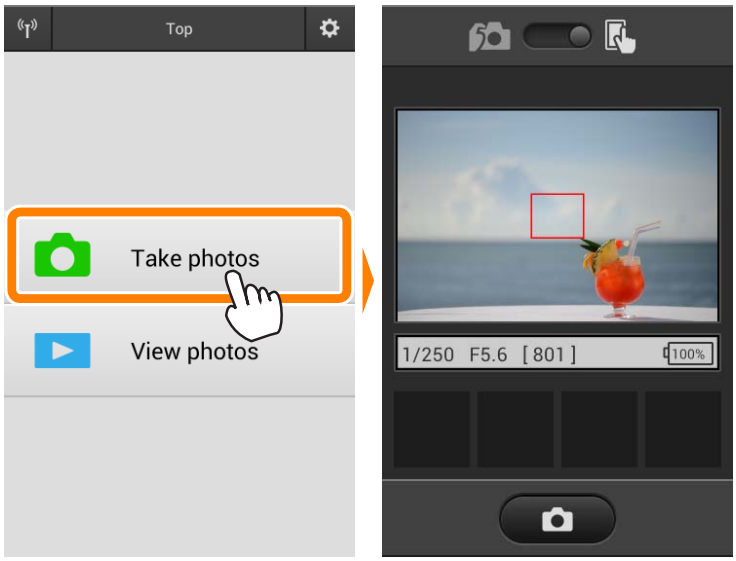
Take pictures remotely from the smart device, or take pictures with the camera and save them to the smart device.

Remote Photography

Follow the steps below to take photos from the smart device.

1 Tap **Take photos.**

The camera viewfinder will go dark and the smart device will display the view through the camera lens.

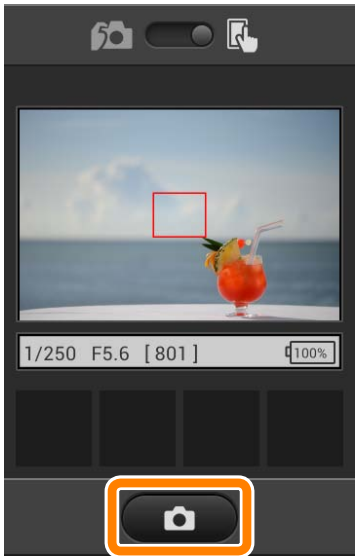


2 Focus.

In normal- and wide-area AF AF-area modes, tap the subject in the display to focus (if subject-tracking AF is selected, the camera will focus using wide-area AF).

3 Tap the shutter icon.

The shutter will be released after you remove your finger from the icon; the resulting photo is first saved to the camera memory card and then downloaded to the smart device. There is no need to point the smart device at the camera.



☑ Remote Photography

Remote photography ends automatically when the battery in the camera or smart device runs low. Note that using remote photography for an extended period may cause the camera's internal temperature to rise; if necessary, remote photography will end automatically to minimize damage to camera circuits.

The smart device can not be used to adjust camera settings; use camera controls to adjust settings before starting Step 1. Regardless of the release mode selected with the camera, only one picture will be taken each time you tap the shutter icon. Note that the display may not update smoothly depending on the device and network conditions, and that panoramas can not be recorded using the easy panorama feature for the D3300.

A shutter speed of "Time" is available in mode **M**. Choose a shutter speed of **bulb** on the camera and select remote photography mode on the smart device, then tap the shutter icon to open the shutter. Shooting ends when the icon is tapped again. Note that the smart device will not display the view through the camera lens at a shutter speed of "Bulb", and that the smart device can not be used in shooting mode when "Time" is selected.

The Remote Photography Display

Mode selection: *Tap* *to select photo capture mode (page 14).*

Settings: *The following photography-related options can be accessed from the smart device menu:*

- **Live view**: *Turn the live view display on or off.*
- **Remote shooting auto download**: *Choose whether to download pictures to the smart device after shooting (remote shooting mode only).*
- **Self-timer**: *If* **ON** *is selected, the camera shutter will be released 2 s after you tap the shutter icon. The timer turns off automatically after the shutter is released.*

Self-timer icon: *Displayed when the self-timer is on.*

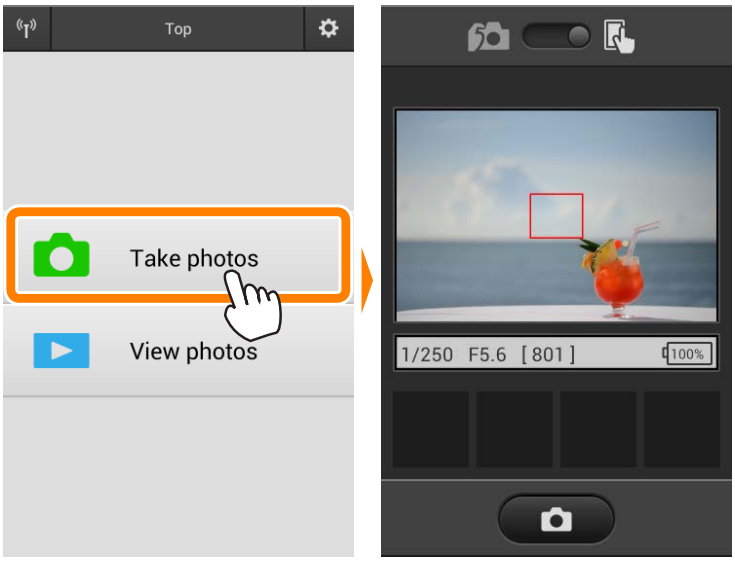
Camera settings: *Shutter speed, aperture, etc. Not displayed when device is in landscape orientation.*

Thumbnail area: *Downloaded pictures.*

Downloading Photos as They Are Taken

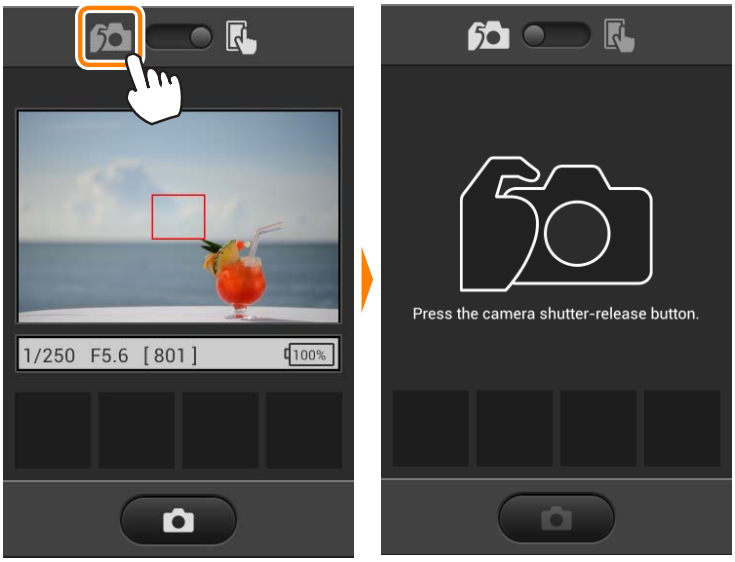
Take photos with the camera and save them to the smart device.

1 Tap Take photos.



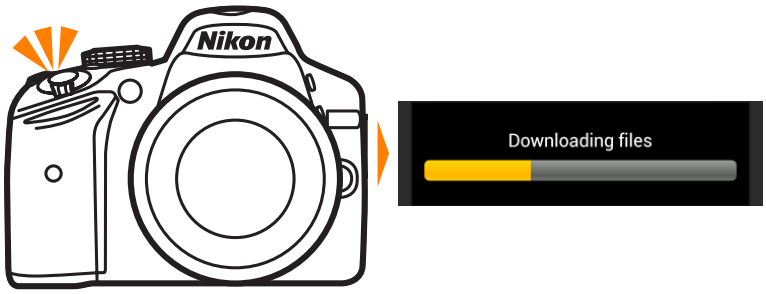
2 Tap .

The dialog shown below at right will be displayed (page 15).



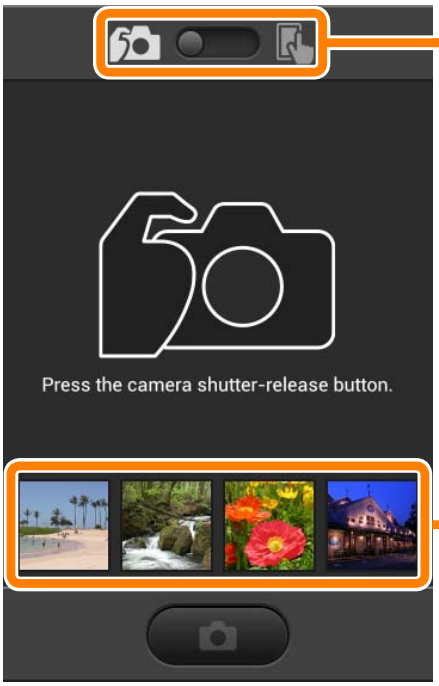
3 Take photos.

Frame photos in the camera viewfinder and shoot. Photos are downloaded to the smart device after being saved to the camera memory card.



The Photo Capture Display

The photo capture display is shown below.



Mode selection: *Tap* *to select remote shooting mode (page 11).*

Thumbnail area: *Downloaded pictures.*

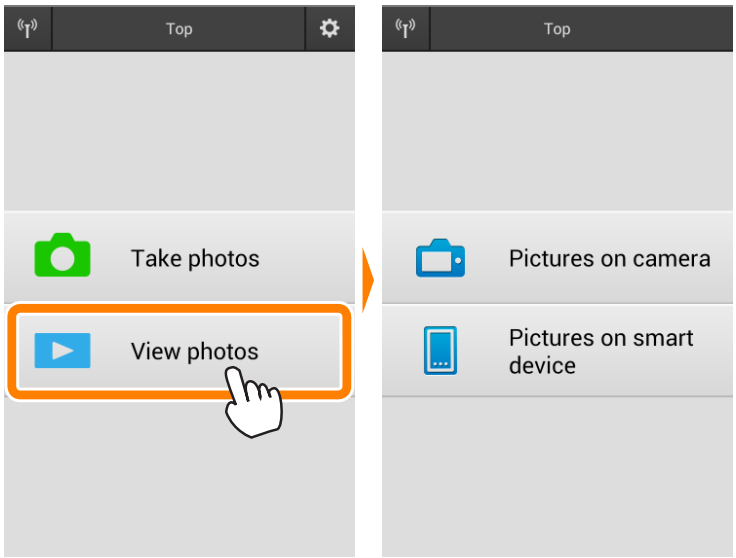
Viewing Photos

Tap **View photos** to view the pictures stored on the smart device. You can also view the pictures on the camera memory card and download selected images to the smart device.

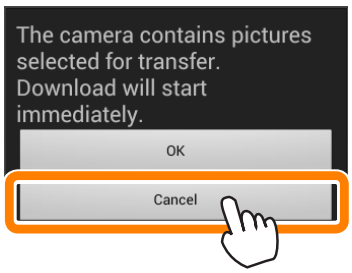
Viewing Pictures

View the pictures in camera memory or on the smart device.

1 Tap **View photos.**

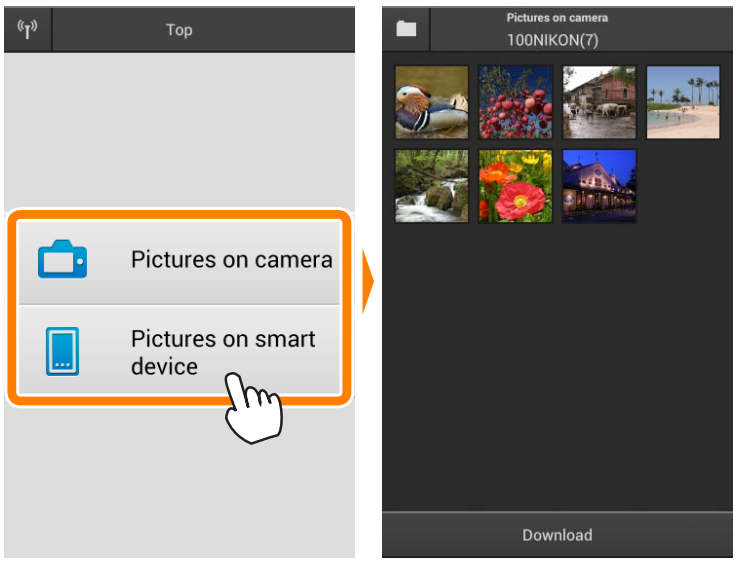


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **Cancel** to view pictures.



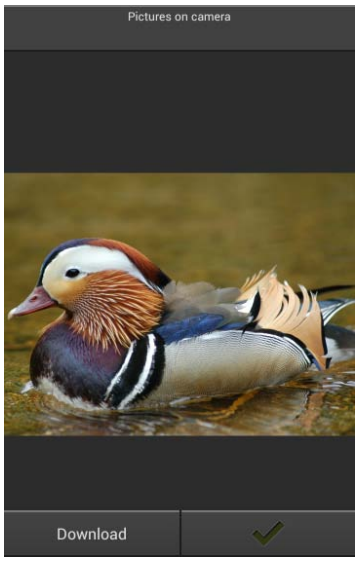
2 Choose a device.

Tap **Pictures on camera** to view the pictures on the camera memory card, **Pictures on smart device** to view the pictures stored on the smart device. The pictures will be displayed as small "thumbnail" images (in some cases, a folder list may be displayed; tap a folder to view the pictures it contains).



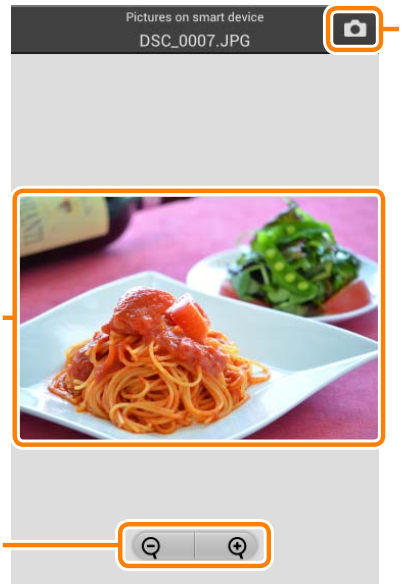
3 View pictures.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to view additional pictures.



The Full-Frame Display

The full-frame display is shown below.



Return to shooting mode (available only if display was accessed by tapping thumbnail in shooting display)

Tap picture to hide or view icons

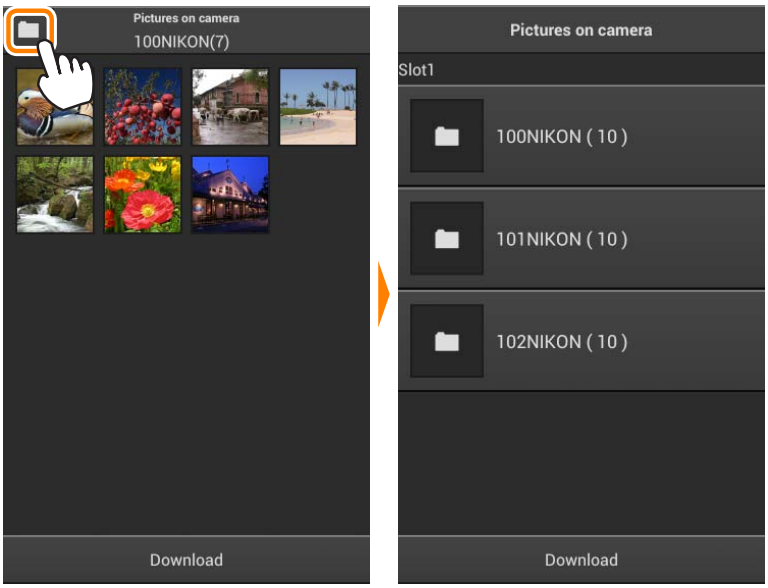
Zoom in or out

Movies

Movies can not be viewed using the Wireless Mobile Utility, but movies can be played back by tapping the movie or playback icon in the thumbnail list to display a list of movie apps and choosing an app from the list.

Folders

Downloaded pictures are stored in folders with names consisting of "C" (for new photos downloaded during shooting) or "D" (for existing pictures downloaded during playback) followed by the date, an underscore, and a 3-digit folder number. A new folder is created each time you launch the Wireless Mobile Utility and either capture new photos or download existing pictures. To view pictures in other folders, tap the folder icon at the top of the display and tap a folder to display its contents.

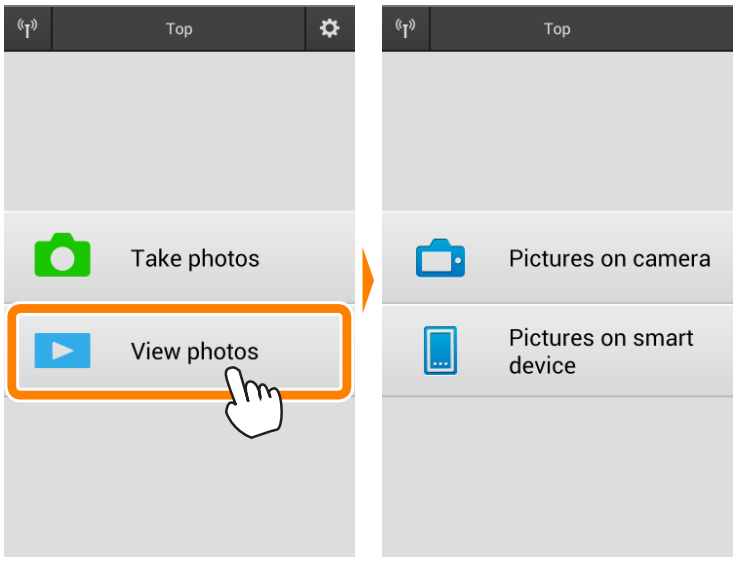


On the smart device, the path to folders created for new photos downloaded during shooting is "/sdcard/Nikon_WU/Capture", while the path to those created for existing pictures downloaded during playback is "/sdcard/Nikon_WU/Card".

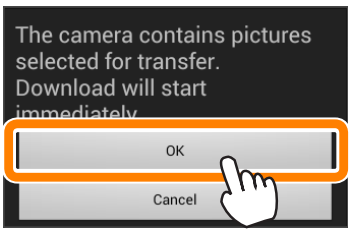
Downloading Existing Pictures

Download pictures from the camera memory card.

1 Tap **View photos.**

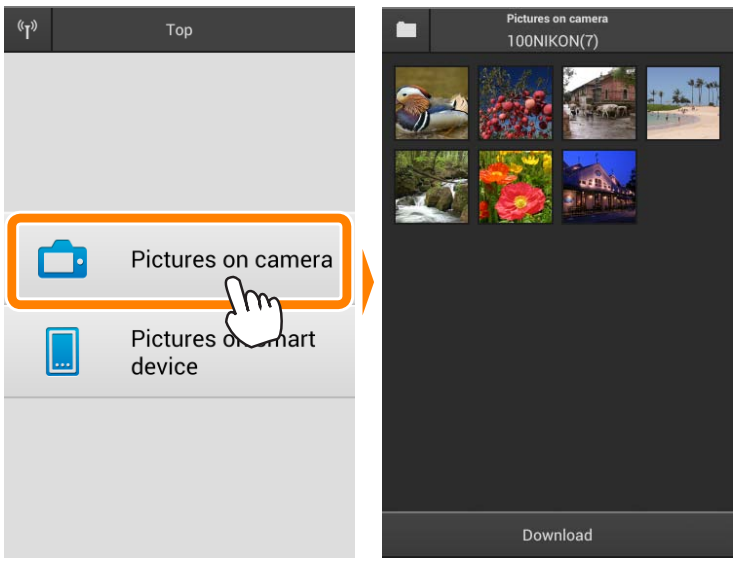


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **OK** to begin download.



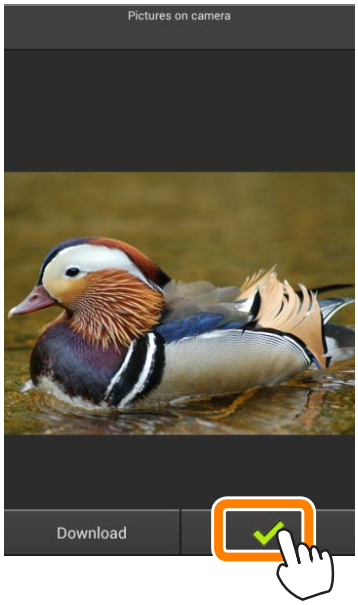
2 Tap **Pictures on camera.**

Tap **Pictures on camera** to view the pictures on the camera.

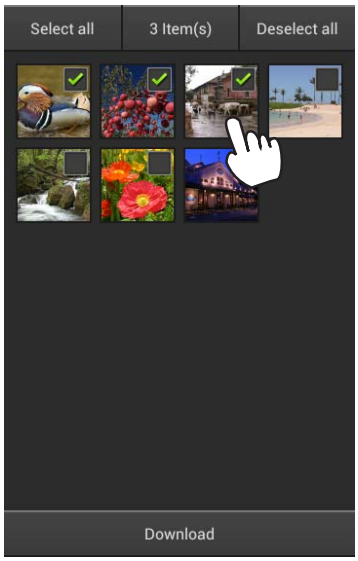


3 Select pictures for download.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to display the desired picture and tap the check mark to select or deselect. Press the back button on the smart device to return to the thumbnail list.



Alternatively, you can select multiple pictures by touching and holding a thumbnail until check boxes are displayed at the top right corner of each picture and then tapping thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.

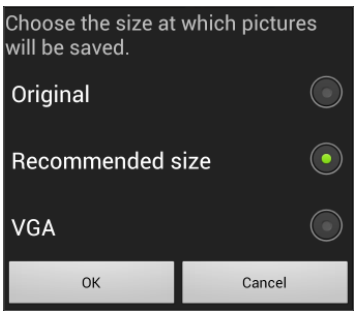


Folders

To select all images in a folder, tap the folder icon at the top of the display and then touch and hold the folder in the folder list.

4 Tap Download.

If only one picture is selected, you will be prompted to choose the size at which the picture will be copied to the smart device.



If multiple pictures are selected, a confirmation dialog will be displayed; tap **Download** to download the pictures at the size selected for **Image size** in the **Settings** menu (page 29).

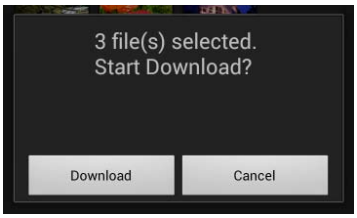
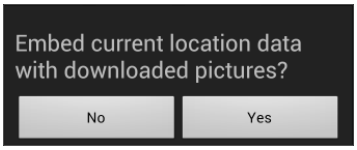


Image Size

Regardless of the size selected, pictures may sometimes be downloaded at their original size.

Location Data

The options shown at right will be displayed if **Settings** > **Embed location data** > **Pictures on camera** is enabled (page 29).



Dropped Connections

If the wireless connection is lost while a picture is being downloaded, the picture will not be saved to the smart device (connection loss may occur if, for example, the camera turns off during download). Any pictures downloaded before the connection was interrupted are unaffected.

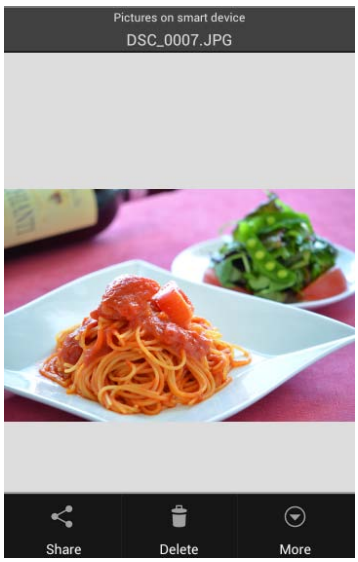
Sharing Pictures

Connect to the Internet before sharing pictures via third-party apps or social networking sites or other services. If you are currently connected to the camera via Wi-Fi, end the connection and connect to a network with Internet access.

Sharing Pictures One at a Time

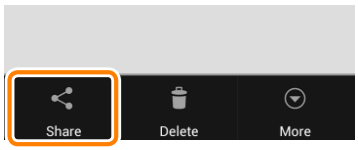
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.



2 Tap Share.

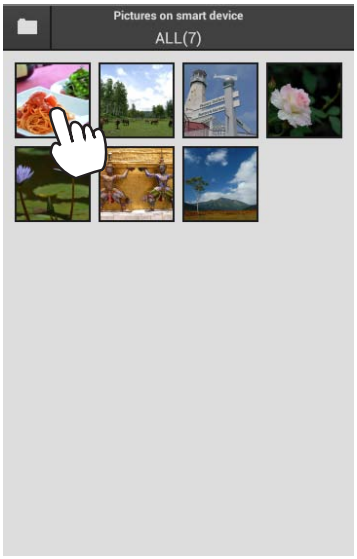
Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Multiple Picture

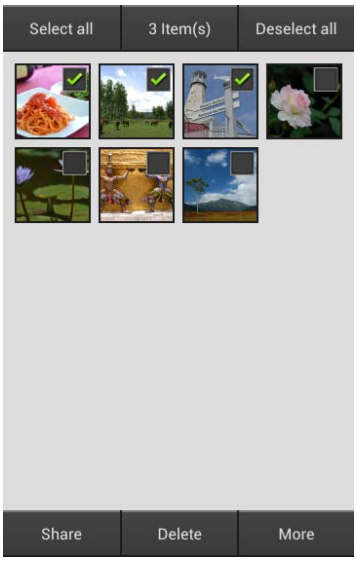
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to share until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



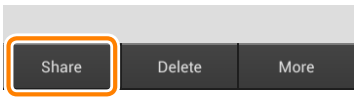
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



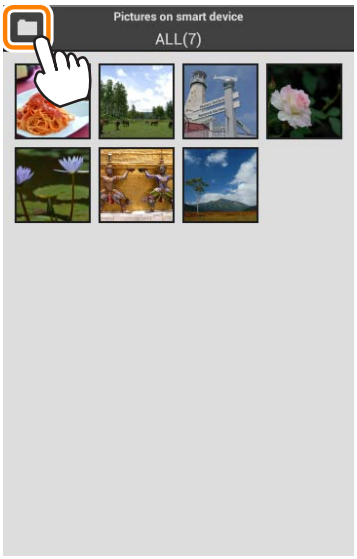
3 Tap Share.

Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Folders

To share all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be shared by tapping **Share** as described in Step 3.



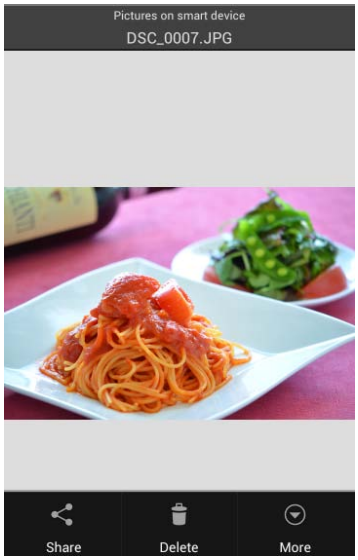
Deleting Pictures

Downloaded pictures can be deleted from the smart device one at a time or in groups. The Wireless Mobile Utility can not be used to delete pictures from the camera memory card.

Deleting Pictures One at a Time

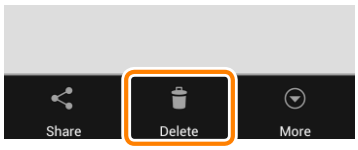
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.

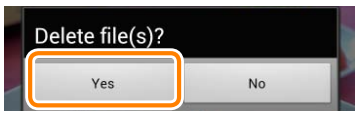


2 Tap Delete.

Tap **Delete**.



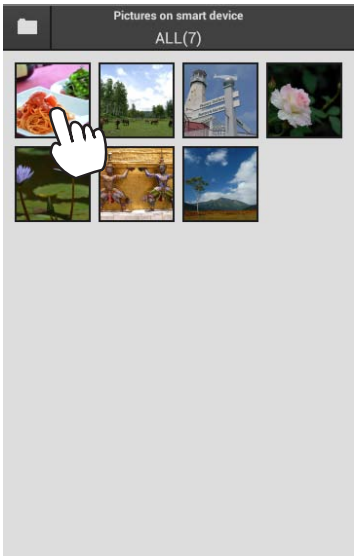
A confirmation dialog will be displayed; tap **Yes**.



Deleting Multiple Pictures

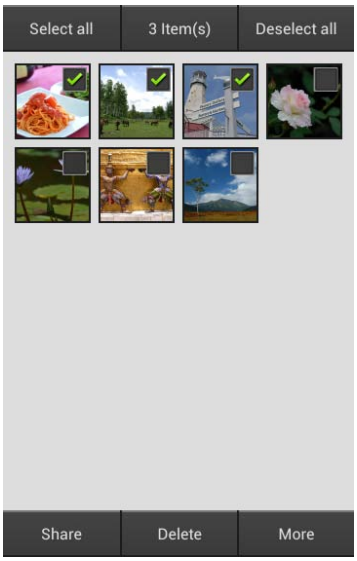
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to delete until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



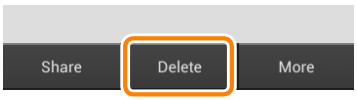
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



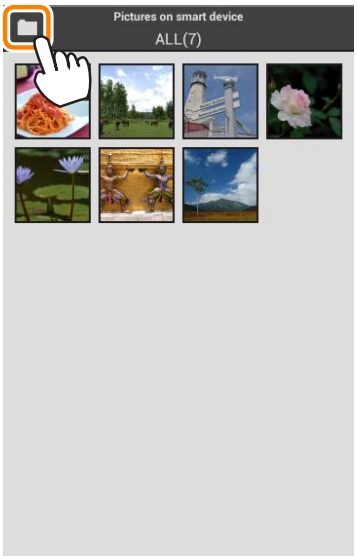
3 Tap Delete.

A confirmation dialog will be displayed; tap **Yes**.



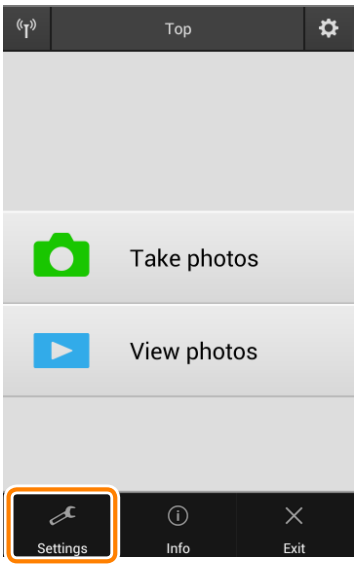
Deleting Folders

To delete all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be deleted by tapping **Delete** as described in Step 3.



Wireless Mobile Utility Options

To access the options listed below, tap the ⚙ icon at the top right corner of the display or use the smart device menu in the Wireless Mobile Utility home display.



Settings

Option	Description
Synchronize clock	Choose whether to synchronize the camera clock with the smart device.
Battery options	Remote photography will end automatically when the camera or smart device battery reaches the selected level.
Thumbnails	Choose the size of the thumbnails in the playback display.
Embed location data	Choose whether to embed smart device location data in pictures not already containing location data provided by the camera. Note that devices not equipped with GPS or comparable location data functions may fail to supply the correct location.
Image size	When downloading multiple images, select **Recommended size** or **VGA** to copy images at sizes approximately equivalent to 1920 × 1080 or 640 × 480, respectively.
App auto launch	If **ON** is selected, the Wireless Mobile Utility will launch automatically when the smart device detects a signal from the camera.

Option	Description
Wireless Mobile Adapter settings	Adjust network settings for the wireless mobile adapter. Note that the **Auto power-off delay** and **Advanced settings** > **WPS PIN/WPS mode** options are not available with cameras featuring built-in Wi-Fi.
SSID	Choose an SSID for the wireless mobile adapter. The smart device displays the SSID when you connect to the network manually.
Authentication/ encryption	Choose the authentication method used for connection to the network.
Password	Enter a password. The password type is selected using **Advanced settings** > **Password entry**: choose **ASCII** for an 8- to 63-character alphanumeric password, **HEX** for a 64-digit hexadecimal password.
Channel	Choose the wireless channel used by the network.
Auto power-off delay	Choose the delay before the wireless mobile adapter enters sleep when there is no wireless connection.
Advanced settings	• **WPS PIN**: Set the wireless mobile adapter WPS PIN. • **WPS mode**: Select the adapter WPS mode. • **Password entry**: Choose the password type. • **Sub-net mask**: Enter a subnet mask. • **DHCP server IP address**: Enter the wireless mobile adapter IP address. • **DHCP client IP address**: Enter the smart device IP address.
Current settings	View current wireless mobile adapter settings.
Format settings	Tap **Yes** to restore default settings.
Language	Choose the language in which the user interface for the Wireless Mobile Utility is displayed.

Info

Option	Description
Camera	The name of the camera currently connected.
Wireless Mobile Adapter	View information about the wireless connection. The serial number and firmware version are displayed only if the camera is connected via the wireless mobile adapter.
Link speed	View the transmission rate.
Serial number	View the product serial number.
Firmware version	View the current firmware version.
App	Select **About** to view Wireless Mobile Utility version information, **Check for updates** to connect to the Google Play service and check for updates, or **License Terms and Conditions** to view the terms of use for this application.

Exit

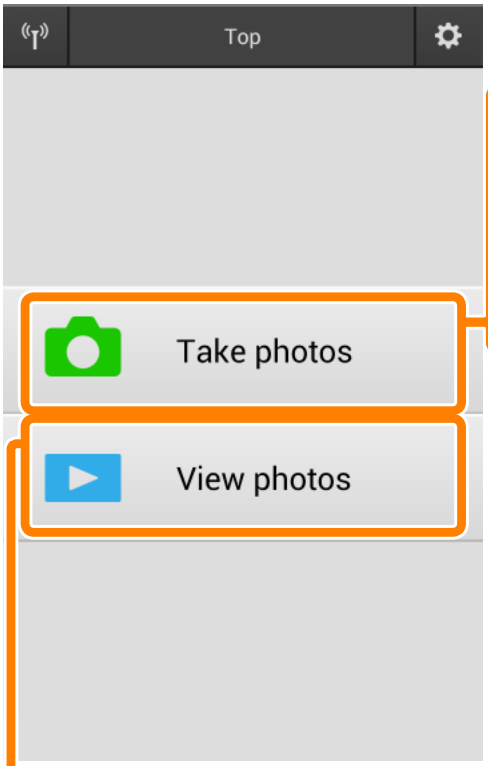
Exit the Wireless Mobile Utility.

B D3200, COOLPIX A

This section describes the options available when the Wireless Mobile Utility and an optional wireless mobile adapter are used to connect to D3200 and COOLPIX A cameras.

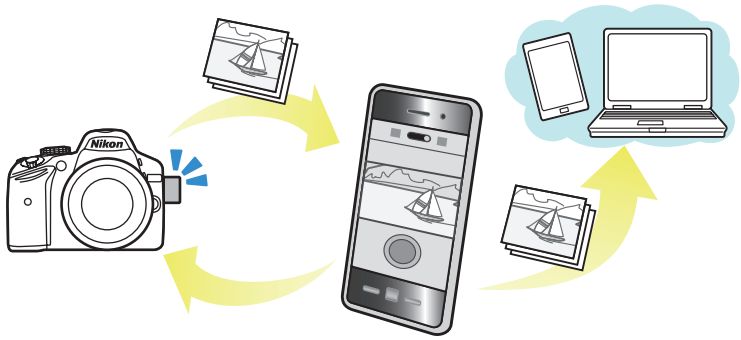
Features

Use the Wireless Mobile Utility to:



Take pictures remotely (40): Tap the shutter icon in the Wireless Mobile Utility to take pictures and download them to the smart device.

Download pictures as they are taken (43): Take pictures with the camera and save them to the smart device.



View pictures (45): View the pictures stored on the smart device or the camera memory card.

Download pictures (49): Download existing pictures from the camera memory card.

Share pictures (52): Share pictures via e-mail or upload pictures to photo-sharing sites.

For information on inserting the adapter, see page 34.

Notices

- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this manual may contain.

System Requirements

Before installing the Wireless Mobile Utility, confirm that your smart device meets the following system requirements:

OS	Android 5.0 or later
Wireless LAN	11b/g/n
Screen resolution	800 × 480 pixels (WVGA) or higher

☑ Using This Application for the First Time

You must accept the terms and conditions of the End User License Agreement (EULA) before connecting.

☑ Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (📖 35). Be sure to enable Wi-Fi security on the smart device after connecting for the first time.

Installing the App

1 **Locate the app on Google Play.**
Connect to Google Play on the smart device and search for "Wireless Mobile Utility".

2 **Install the app.**
Install the Wireless Mobile Utility.

Establishing a Wireless Connection

1 **Connect the wireless mobile adapter.**
Attach the wireless mobile adapter to the camera and turn the camera on. See the manual supplied with the wireless mobile adapter for details.

2 **Ready the smart device.**
Select **Wi-Fi settings** > **WPS button connection**. The smart device will wait for a signal from the camera.

3 **Press the WPS button.**
Press the WPS button on the wireless mobile adapter for about 5 s until the LED on the wireless mobile adapter flashes red and green.

4 **Launch the Wireless Mobile Utility.**
When a connection is established, the LED on the wireless mobile adapter will glow green and the main dialog for the Wireless Mobile Utility will be displayed on the smart device. For information on taking pictures, see page 40. For information on viewing pictures, see page 45.

WPS

WPS (Wi-Fi Protected Setup) is a standard designed to make it easy to establish a secure wireless network. For information on the steps involved and the length of time the smart device will wait for a connection, see the documentation supplied with the smart device.

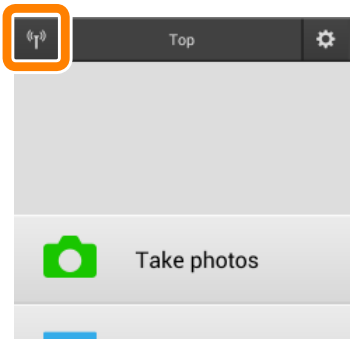
Manual Wi-Fi Connections

1. Display Wi-Fi settings for the smart device.
2. Select the appropriate SSID (the default SSID begins with "Nikon"). The LED will light green when a connection is established.
3. Enable Wi-Fi security (📖 36).

Connection Status

Connection status is shown by an icon in the home display:

- : Connection established.
- : No connection. Tap the icon to open the smart device **Wi-Fi settings** menu and check Wi-Fi settings.



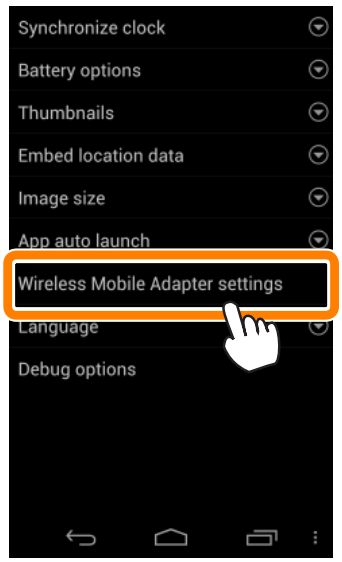
The Wireless Mobile Adapter

While the adapter is inserted, the camera exposure meters will not turn off; monitor the camera battery level to ensure that the camera does not power off unexpectedly. In addition, some camera menu items may be grayed out and unavailable and the camera can not be used for playback or live view. Movie recording can not be used.

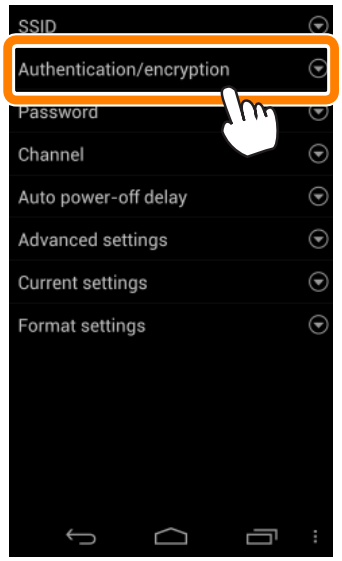
Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (35). Security can be enabled by opening the Wireless Mobile Utility settings menu (58) and following the steps below.

1 Tap **Wireless Mobile Adapter settings.**



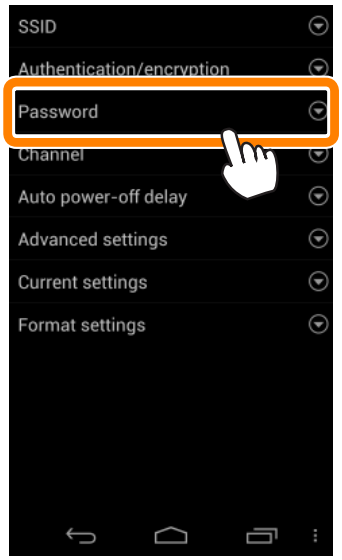
2 Tap **Authentication/encryption.**



3 Select WPA2-PSK-AES.

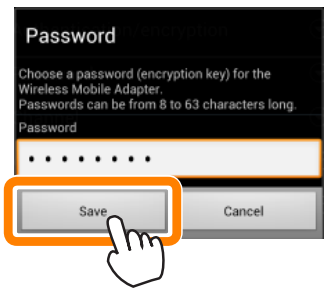
Select **WPA2-PSK-AES** and tap **OK**.

4 Tap Password.



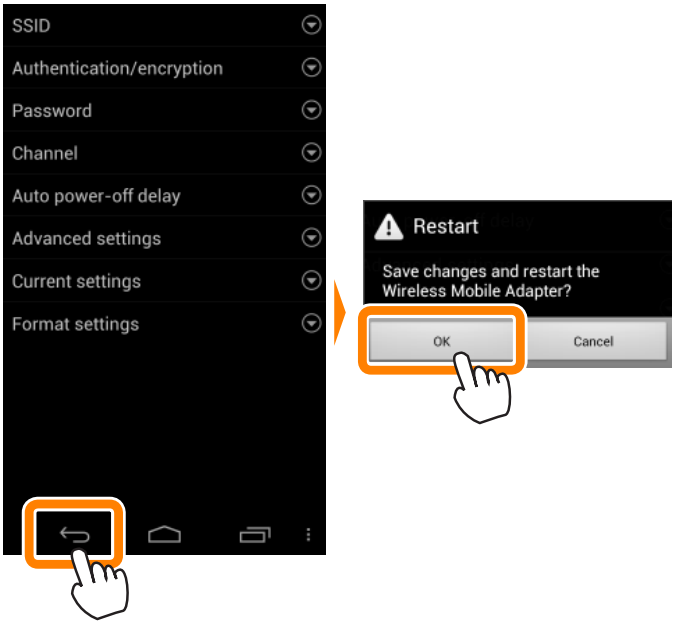
5 Enter a password.

Enter a password and tap **Save** (59). Passwords may be from 8 to 63 characters long.



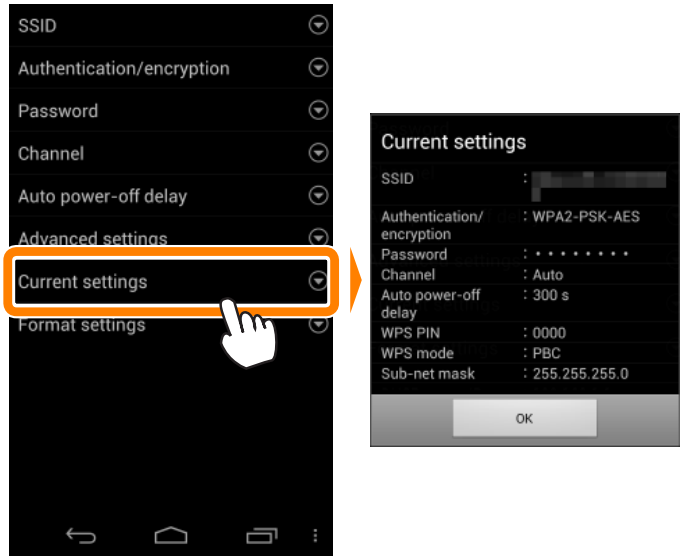
6 Enable wireless security.

Tap . A confirmation dialog will be displayed; tap **OK**.



Viewing Wireless Security Settings

To view the current password and authentication/encryption settings, tap **Current settings** in the Wireless Mobile Adapter settings menu.



Security

Although one of the benefits of a wireless-enabled device is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

- **Data theft**: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- **Unauthorized access**: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled.

Taking Photos

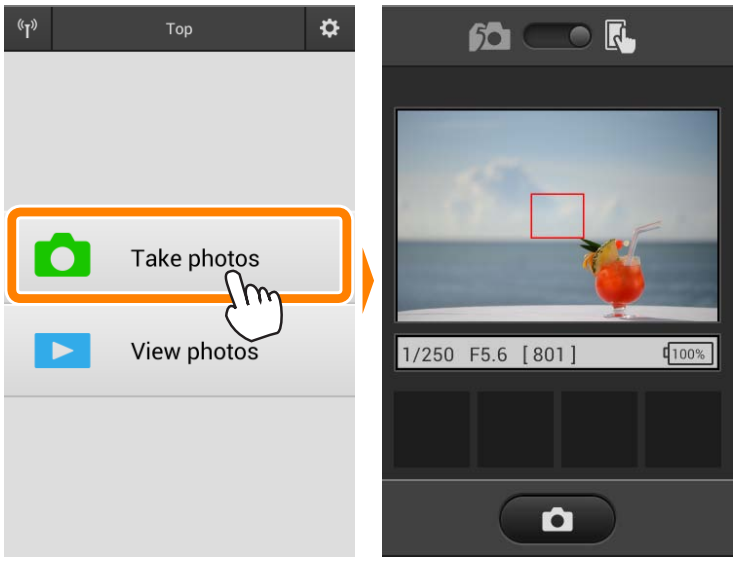
Take pictures remotely from the smart device, or take pictures with the camera and save them to the smart device.

Remote Photography

Follow the steps below to take photos from the smart device.

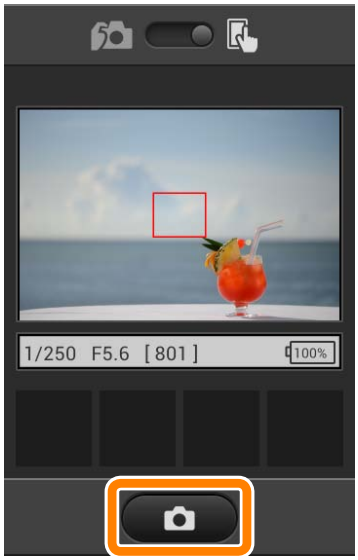
1 Tap **Take photos.**

The camera viewfinder will go dark and the smart device will display the view through the camera lens.



2 Tap the shutter icon.

Tap the shutter icon. If the camera is able to focus, the shutter will be released after you remove your finger from the icon; the resulting photo is first saved to the camera memory card and then downloaded to the smart device. There is no need to point the smart device at the wireless mobile adapter.



☑ Remote Photography

Remote photography ends automatically when the battery in the camera or smart device runs low. Note that using remote photography for an extended period may cause the camera's internal temperature to rise; if necessary, remote photography will end automatically to minimize damage to camera circuits.

The smart device can not be used to adjust camera settings; use camera controls to adjust settings before starting Step 1. Regardless of the release mode selected with the camera, only one picture will be taken each time you tap the shutter icon. Note that the display may not update smoothly depending on the device and network conditions.

In normal- and wide-area AF AF-area modes, the camera will focus on the subject in the focus area selected with the camera; if subject-tracking AF is selected, the camera will focus using wide-area AF.

The Remote Photography Display

Mode selection (D3200 only): *Tap* *to select photo capture mode (page 43).*

Settings: *The following photography-related options can be accessed from the smart device menu.*

- **Remote shooting auto download**: *Choose whether to download pictures to the smart device after shooting (remote shooting mode only).*
- **Self-timer**: *If* **ON** *is selected, the camera shutter will be released 2 s after you tap the shutter icon. The timer turns off automatically after the shutter is released.*

Self-timer icon: *Displayed when the self-timer is on.*

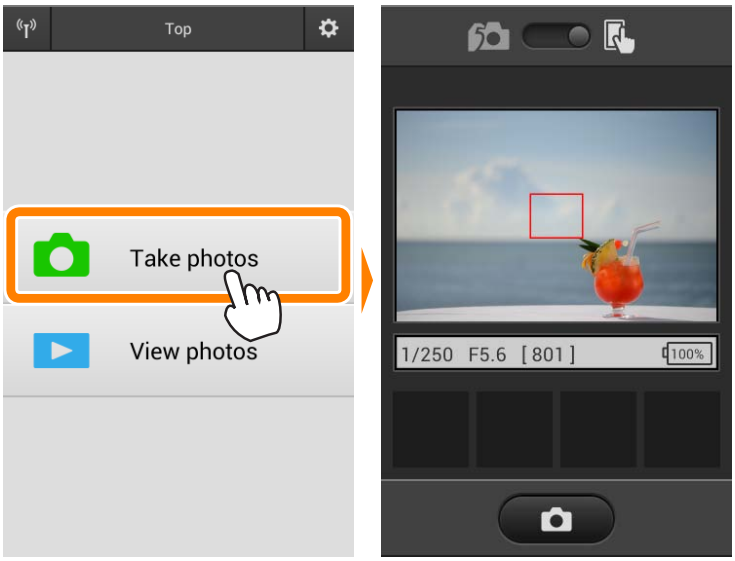
Camera settings: *Shutter speed, aperture, etc. Not displayed when device is in landscape orientation.*

Thumbnail area: *Downloaded pictures.*

Downloading Photos as They Are Taken (D3200 only)

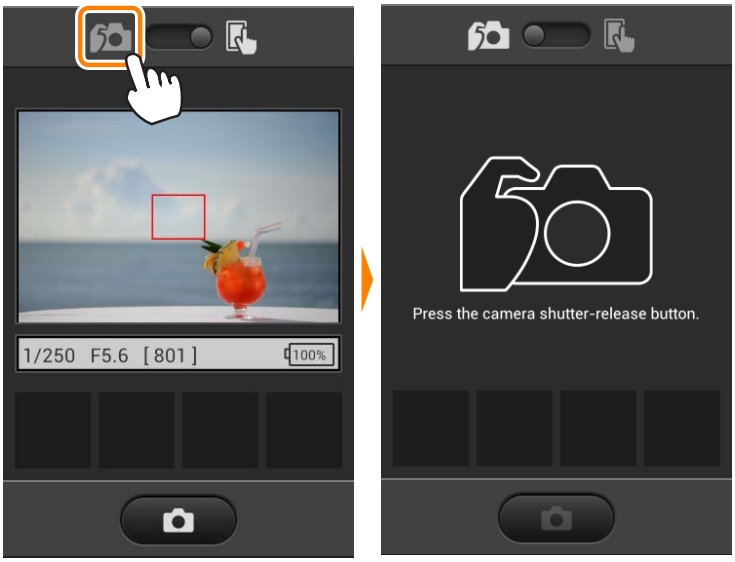
Take photos with the camera and save them to the smart device.

1 Tap **Take photos.**



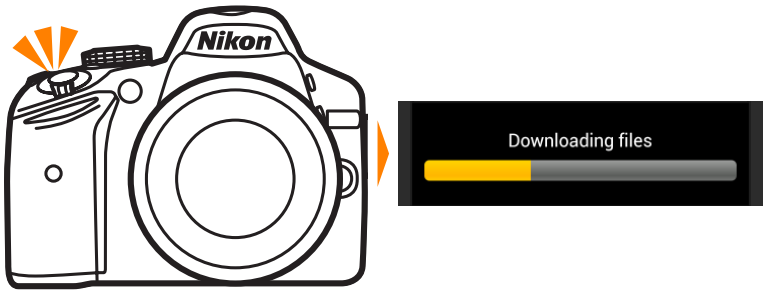
2 Tap .

The dialog shown below at right will be displayed (page 44).



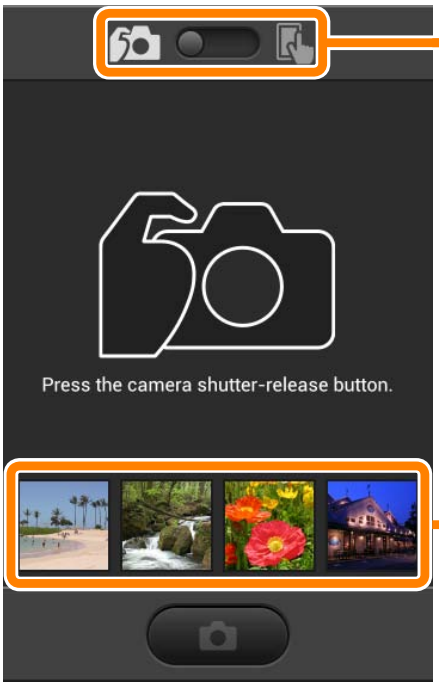
3 Take photos.

Frame photos in the camera viewfinder and shoot. Photos are downloaded to the smart device after being saved to the camera memory card.



The Photo Capture Display

The photo capture display is shown below.



Mode selection: *Tap* *to select remote shooting mode (page 40).*

Thumbnail area: *Downloaded pictures.*

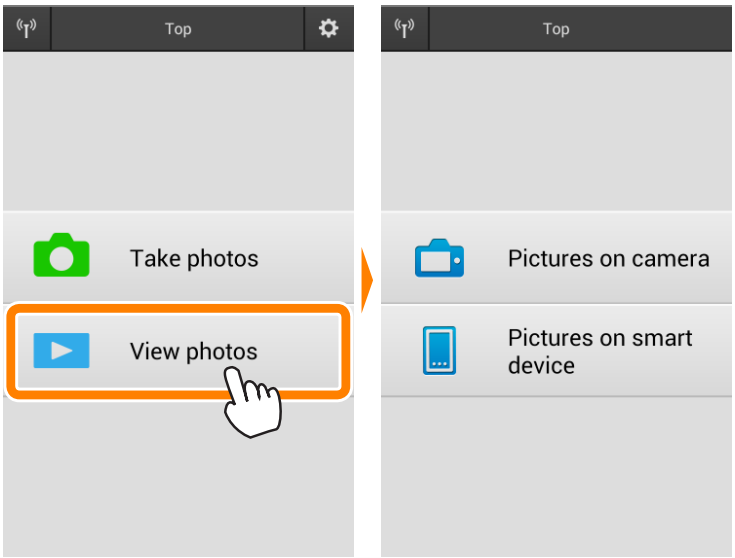
Viewing Photos

Tap **View photos** to view the pictures stored on the smart device. You can also view the pictures on the camera memory card and download selected images to the smart device.

Viewing Pictures

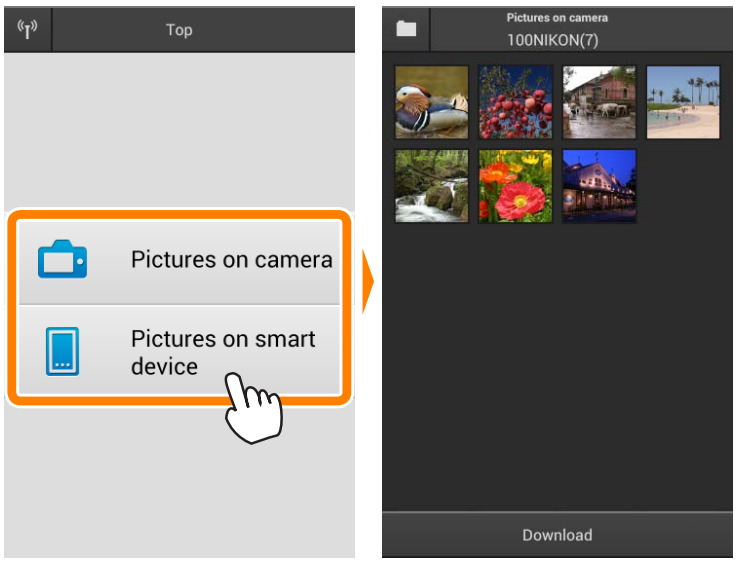
View the pictures in camera memory or on the smart device.

1 Tap **View photos.**



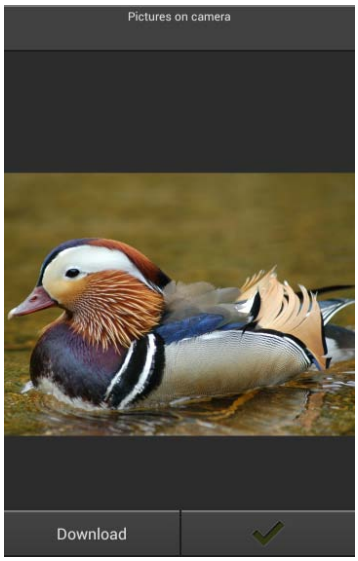
2 Choose a device.

Tap **Pictures on camera** to view the pictures on the camera memory card, **Pictures on smart device** to view the pictures stored on the smart device. The pictures will be displayed as small "thumbnail" images (in some cases, a folder list may be displayed; tap a folder to view the pictures it contains).



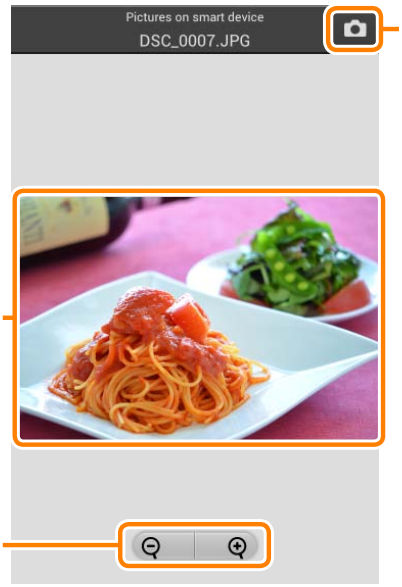
3 View pictures.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to view additional pictures.



The Full-Frame Display

The full-frame display is shown below.

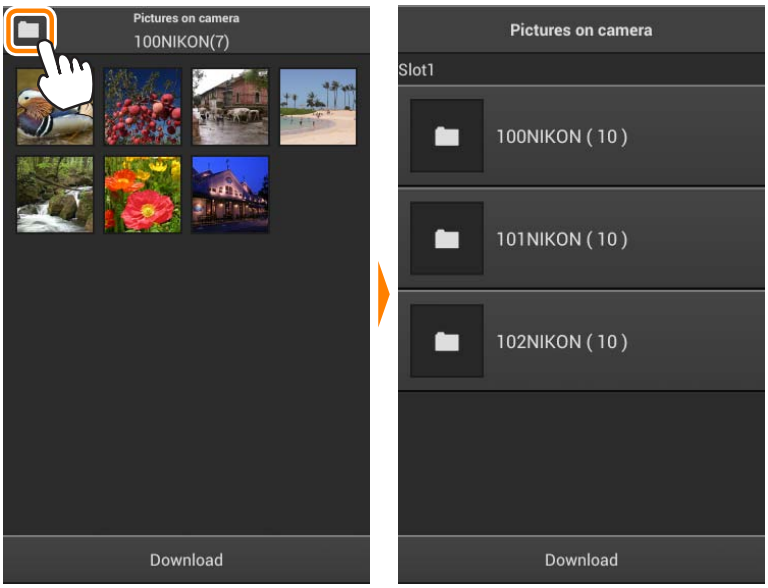


Movies

Movies can not be viewed using the Wireless Mobile Utility, but movies can be played back by tapping the movie or playback icon in the thumbnail list to display a list of movie apps and choosing an app from the list.

Folders

Downloaded pictures are stored in folders with names consisting of "C" (for new photos downloaded during shooting) or "D" (for existing pictures downloaded during playback) followed by the date, an underscore, and a 3-digit folder number. A new folder is created each time you launch the Wireless Mobile Utility and either capture new photos or download existing pictures. To view pictures in other folders, tap the folder icon at the top of the display and tap a folder to display its contents.

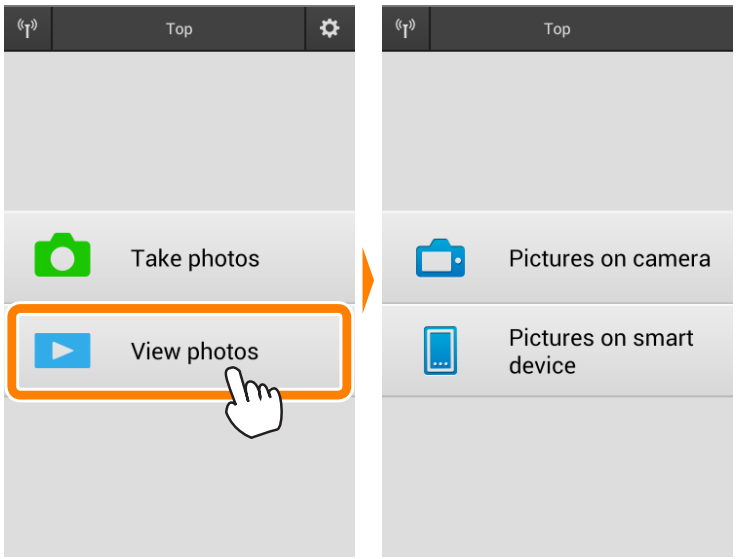


On the smart device, the path to folders created for new photos downloaded during shooting is "/sdcard/Nikon_WU/Capture", while the path to those created for existing pictures downloaded during playback is "/sdcard/Nikon_WU/Card".

Downloading Existing Pictures

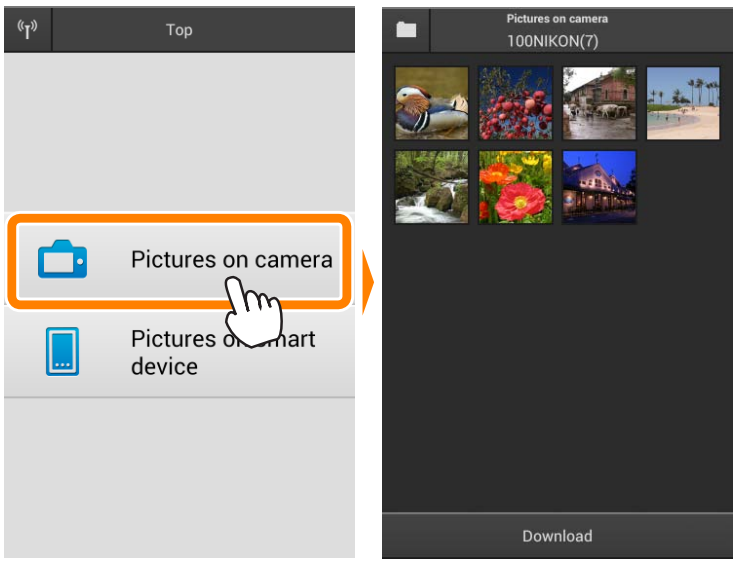
Download pictures from the camera memory card.

1 Tap View photos.



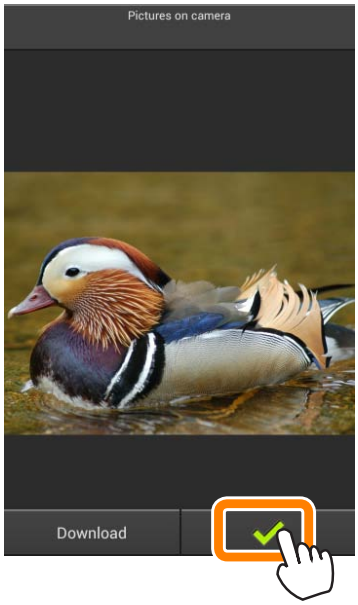
2 Tap Pictures on camera.

Tap **Pictures on camera** to view the pictures on the camera.

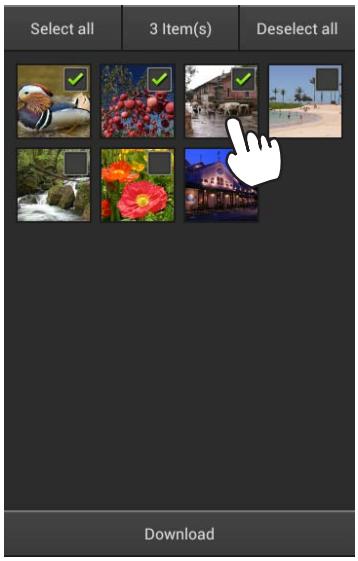


3 Select pictures for download.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to display the desired picture and tap the check mark to select or deselect. Press the back button on the smart device to return to the thumbnail list.



Alternatively, you can select multiple pictures by touching and holding a thumbnail until check boxes are displayed at the top right corner of each picture and then tapping thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.

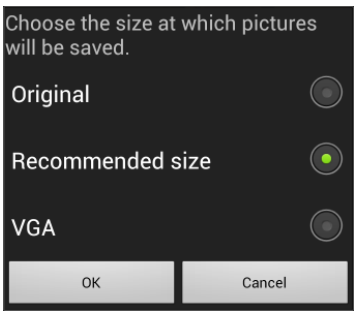


Folders

To select all images in a folder, tap the folder icon at the top of the display and then touch and hold the folder in the folder list.

4 Tap Download.

If only one picture is selected, you will be prompted to choose the size at which the picture will be copied to the smart device.



If multiple pictures are selected, a confirmation dialog will be displayed; tap **Download** to download the pictures at the size selected for **Image size** in the **Settings** menu (page 58).

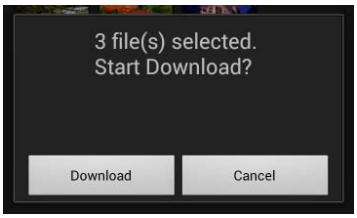
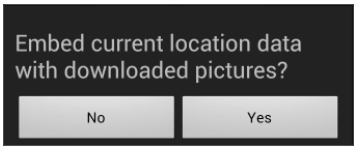


Image Size

Regardless of the size selected, pictures may sometimes be downloaded at their original size.

Location Data

The options shown at right will be displayed if **Settings** > **Embed location data** > **Pictures on camera** is enabled (page 58).



Dropped Connections

If the wireless connection is lost while a picture is being downloaded, the picture will not be saved to the smart device (connection loss may occur if, for example, the camera turns off during download). Any pictures downloaded before the connection was interrupted are unaffected.

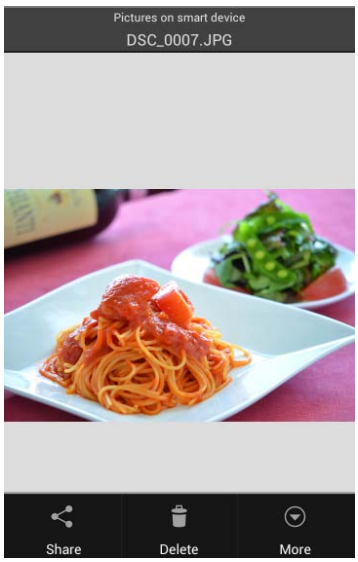
Sharing Pictures

Connect to the Internet before sharing pictures via third-party apps or social networking sites or other services. If you are currently connected to the camera via Wi-Fi, end the connection and connect to a network with Internet access.

Sharing Pictures One at a Time

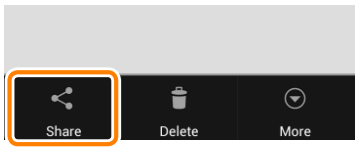
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.



2 Tap Share.

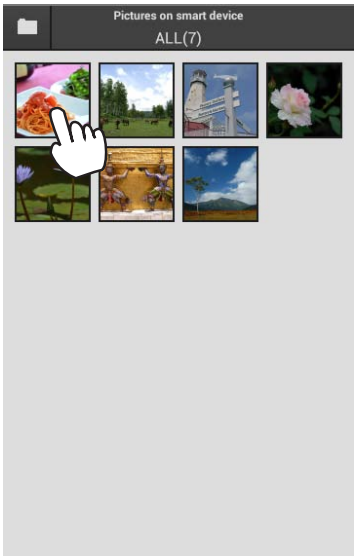
Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Multiple Pictures

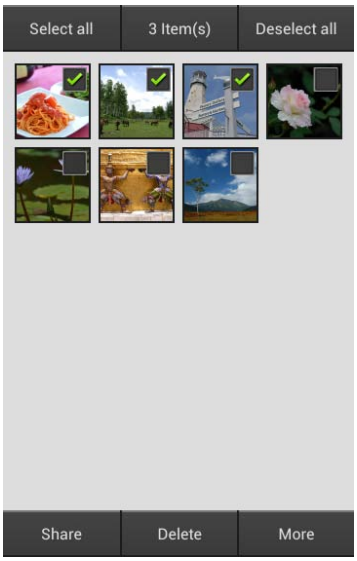
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to share until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



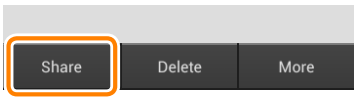
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



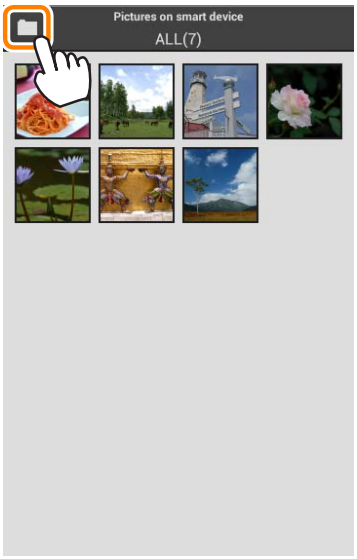
3 Tap Share.

Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Folders

To share all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be shared by tapping **Share** as described in Step 3.



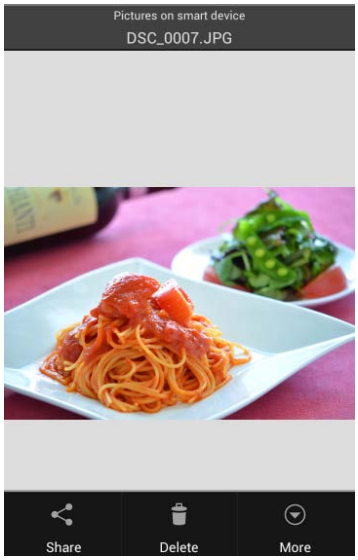
Deleting Pictures

Downloaded pictures can be deleted from the smart device one at a time or in groups. The Wireless Mobile Utility can not be used to delete pictures from the camera memory card.

Deleting Pictures One at a Time

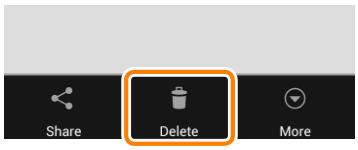
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.

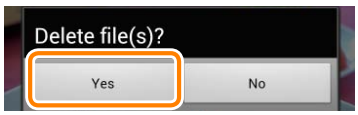


2 Tap Delete.

Tap **Delete**.



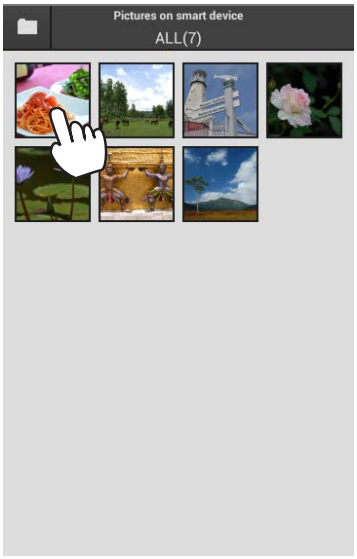
A confirmation dialog will be displayed; tap **Yes**.



Deleting Multiple Pictures

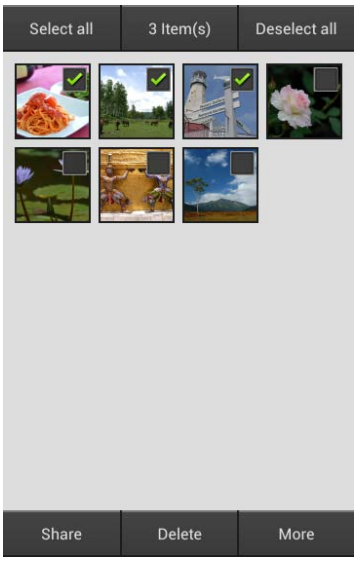
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to delete until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



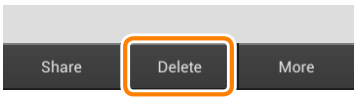
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



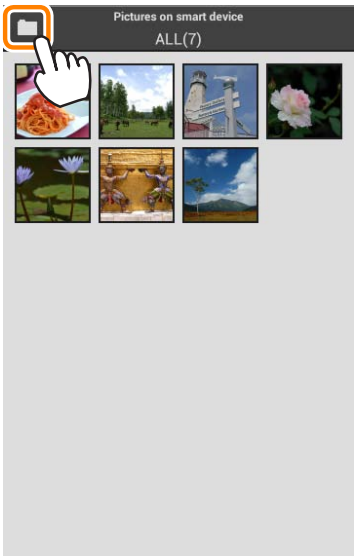
3 Tap Delete.

A confirmation dialog will be displayed; tap **Yes**.



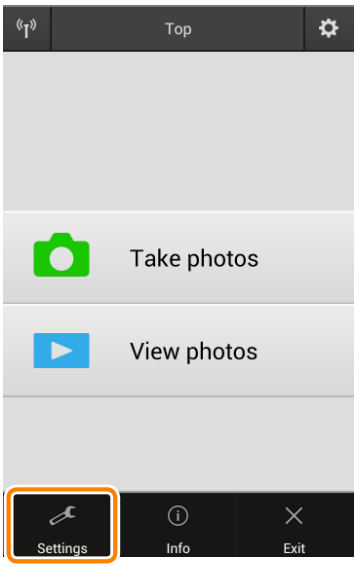
Deleting Folders

To delete all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be deleted by tapping **Delete** as described in Step 3.



Wireless Mobile Utility Options

To access the options listed below, tap the ⚙ icon at the top right corner of the display or use the smart device menu in the Wireless Mobile Utility home display.



Settings

Option	Description
Synchronize clock	Choose whether to synchronize the camera clock with the smart device.
Battery options	Remote photography will end automatically when the camera or smart device battery reaches the selected level.
Thumbnails	Choose the size of the thumbnails in the playback display.
Embed location data	Choose whether to embed smart device location data in pictures not already containing location data provided by the camera. Note that devices not equipped with GPS or comparable location data functions may fail to supply the correct location.
Image size	When downloading multiple images, select **Recommended size** or **VGA** to copy images at sizes approximately equivalent to 1920 × 1080 or 640 × 480, respectively.
App auto launch	If **ON** is selected, the Wireless Mobile Utility will launch automatically when the smart device detects a signal from the wireless mobile adapter.

Option	Description
Wireless Mobile Adapter settings	Adjust network settings for the wireless mobile adapter.
SSID	Choose an SSID for the wireless mobile adapter. The smart device displays the SSID when you connect to the network manually.
Authentication/ encryption	Choose the authentication method used for connection to the network.
Password	Enter a password. The password type is selected using **Advanced settings** > **Password entry**: choose **ASCII** for an 8- to 63-character alphanumeric password, **HEX** for a 64-digit hexadecimal password.
Channel	Choose the wireless channel used by the network.
Auto power-off delay	Choose the delay before the wireless mobile adapter enters sleep when there is no wireless connection.
Advanced settings	• **WPS PIN**: Set the wireless mobile adapter WPS PIN. • **WPS mode**: Select the adapter WPS mode. • **Password entry**: Choose the password type. • **Sub-net mask**: Enter a subnet mask. • **DHCP server IP address**: Enter the wireless mobile adapter IP address. • **DHCP client IP address**: Enter the smart device IP address.
Current settings	View current wireless mobile adapter settings.
Format settings	Tap **Yes** to restore default settings.
Language	Choose the language in which the user interface for the Wireless Mobile Utility is displayed.

Info

Option	Description
Camera	The name of the camera currently connected.
Wireless Mobile Adapter	View information about the wireless mobile adapter.
Link speed	View the transmission rate.
Serial number	View the product serial number.
Firmware version	View the current firmware version.
App	Select **About** to view Wireless Mobile Utility version information, **Check for updates** to connect to the Google Play service and check for updates, or **License Terms and Conditions** to view the terms of use for this application.

Exit

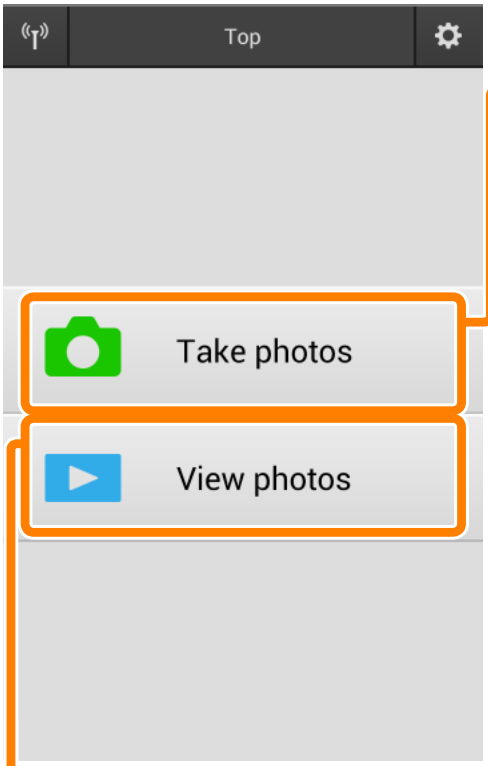
Exit the Wireless Mobile Utility.

C Nikon 1 Cameras

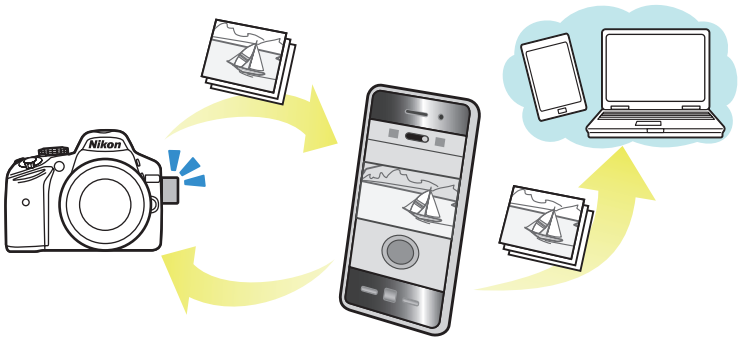
This section describes the options available when the Wireless Mobile Utility is used with Nikon 1 cameras that offer built-in Wi-Fi or support the optional wireless mobile adapter.

Features

Use the Wireless Mobile Utility to:



Take pictures remotely (70): Tap the shutter icon in the Wireless Mobile Utility to take pictures and download them to the smart device.



View pictures (73): View the pictures stored on the smart device or the camera memory card.

Download pictures (77): Download existing pictures from the camera memory card.

Share pictures (80): Share pictures via e-mail or upload pictures to photo-sharing sites.

For information on establishing a connection, see page 63.

Notices

- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this manual may contain.

System Requirements

Before installing the Wireless Mobile Utility, confirm that your smart device meets the following system requirements:

OS	Android 5.0 or later
Wireless LAN	11b/g/n
Screen resolution	800 × 480 pixels (WVGA) or higher

☑ Using This Application for the First Time

You must accept the terms and conditions of the End User License Agreement (EULA) before connecting.

☑ Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (📖 65). Be sure to enable Wi-Fi security on the smart device after connecting for the first time. If you are using a Nikon 1 J5, enable security on the camera before connecting.

Installing the App

1 Locate the app on Google Play.
Connect to Google Play on the smart device and search for "Wireless Mobile Utility".

2 Install the app.
Install the Wireless Mobile Utility.

Establishing a Wireless Connection

The procedure varies with the type of camera.

Cameras with Built-in Wireless LAN

See the camera manual.

NFC Devices

If both the camera and smart device support NFC, a connection can be established simply by touching the smart device to the camera.

1 Enable NFC on the smart device.
See the documentation provided with the device for details.

2 Touch the NFC antenna on the smart device to the N (N-Mark) on the camera.
The Wireless Mobile Utility will launch and establish a connection to the camera; connection status is shown in the camera monitor. See pages 70 and 73 for information on taking and viewing pictures once a connection is established.

NFC Antennas

See the documentation for the camera and smart device for information on the locations of the NFC antennas.

Cameras Without Built-in Wireless LAN or NFC

1 Connect the wireless mobile adapter.
Attach the wireless mobile adapter to the camera and turn the camera on. See the manual supplied with the wireless mobile adapter for details.

2 Ready the smart device.
Select **Wi-Fi settings** > **WPS button connection**. The smart device will wait for a signal from the camera.

3 Press the WPS button.
Press the WPS button on the wireless mobile adapter for about 5 s until the LED on the wireless mobile adapter flashes red and green.

4 Launch the Wireless Mobile Utility.
When a connection is established, the LED on the wireless mobile adapter will glow green and the main dialog for the Wireless Mobile Utility will be displayed on the smart device. For information on taking pictures, see page 70. For information on viewing pictures, see page 73.

NFC

NFC (Near Field Communication) is an international standard for short-range wireless communications technology.

WPS

WPS (Wi-Fi Protected Setup) is a standard designed to make it easy to establish a secure wireless network. For information on the steps involved and the length of time the smart device will wait for a connection, see the documentation supplied with the smart device.

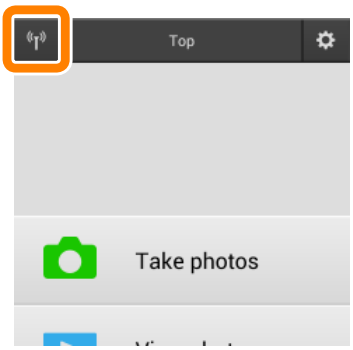
Manual Wi-Fi Connections

1. Display Wi-Fi settings for the smart device.
2. Select the appropriate SSID (the default SSID begins with "Nikon"). The LED will light green when a connection is established.
3. Enable Wi-Fi security (66).

Connection Status

Connection status is shown by an icon in the home display:

- : Connection established.
- : No connection. Tap the icon to open the smart device **Wi-Fi settings** menu and check Wi-Fi settings.



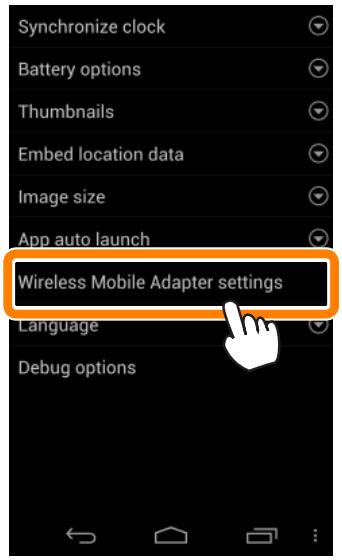
The Wireless Mobile Adapter

While the adapter is inserted, the camera exposure meters will not turn off; monitor the camera battery level to ensure that the camera does not power off unexpectedly. In addition, some camera menu items may be grayed out and unavailable and the camera can not be used for playback or live view. Movie recording can not be used.

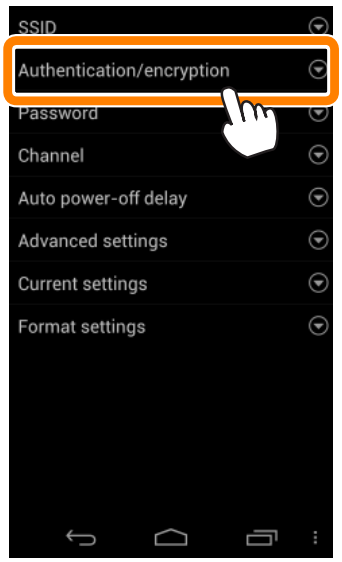
Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (65). Users of the Nikon 1 V3 or J4 or the wireless mobile adapter can enable security by opening the Wireless Mobile Utility settings menu (86) and following the steps below. Users of the Nikon 1 J5 should instead enable security on the camera before connecting.

1 Tap **Wireless Mobile Adapter settings.**



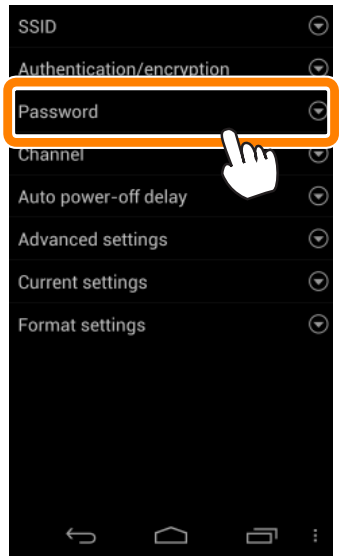
2 Tap **Authentication/encryption.**



3 Select WPA2-PSK-AES.

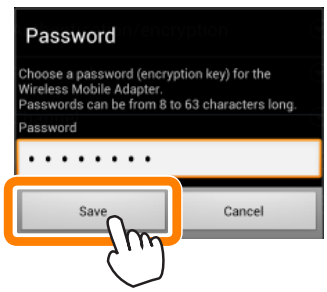
Select **WPA2-PSK-AES** and tap **OK**.

4 Tap Password.



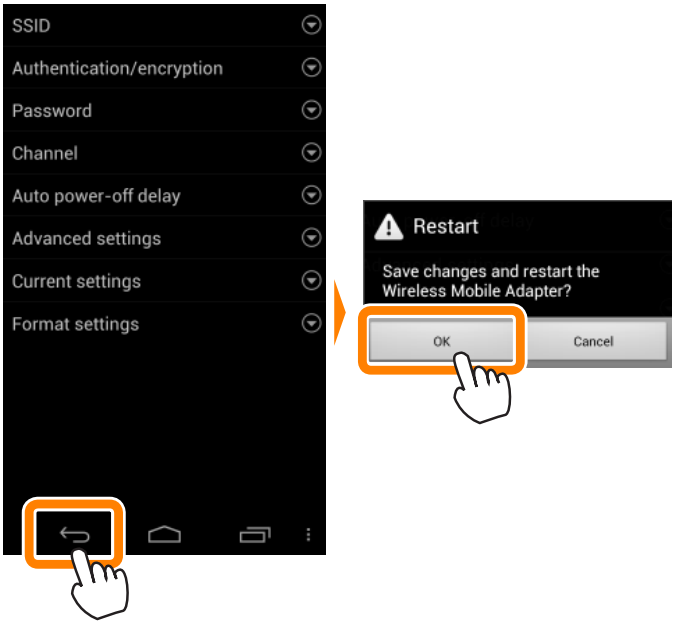
5 Enter a password.

Enter a password and tap **Save** (87). Passwords may be from 8 to 63 characters long.



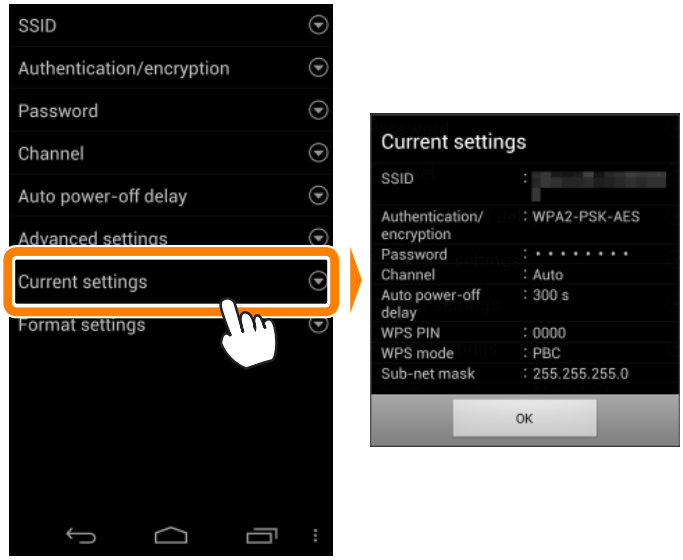
6 Enable wireless security.

Tap . A confirmation dialog will be displayed; tap **OK**.



Viewing Wireless Security Settings

To view the current password and authentication/encryption settings, tap **Current settings** in the Wireless Mobile Adapter settings menu.



Security

Although one of the benefits of a wireless-enabled device is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

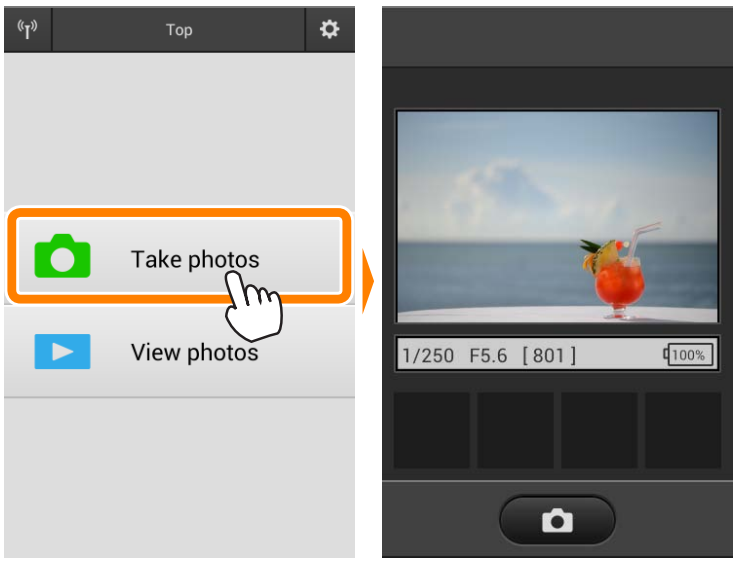
- **Data theft**: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- **Unauthorized access**: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled.

Taking Photos

Follow the steps below to take photos from the smart device.

1 Tap **Take photos.**

The camera viewfinder will go dark and the smart device will display the view through the camera lens.



2 Tap the shutter icon.

The shutter will be released after you remove your finger from the icon and the camera focuses (note that no photo will be taken if the camera is unable to focus); the resulting photo is first saved to the camera memory card and then downloaded to the smart device. There is no need to point the smart device at the wireless mobile adapter.

☑ Remote Photography

Remote photography ends automatically when the battery in the camera or smart device runs low. Note that using remote photography for an extended period may cause the camera's internal temperature to rise; if necessary, remote photography will end automatically to minimize damage to camera circuits.

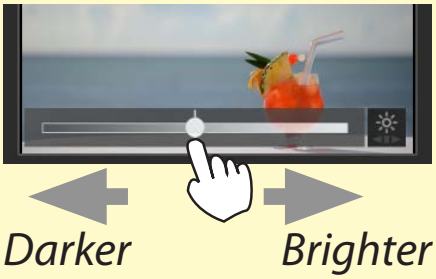
The smart device can not be used to adjust camera settings; use camera controls to adjust settings before starting Step 1. Regardless of the release mode selected with the camera, only one picture will be taken each time you tap the shutter icon. Note that the display may not update smoothly depending on the device and network conditions.

Regardless of the settings selected with the camera, pictures will be taken in mode **P** (programmed auto) using single-servo autofocus (AF-S) and auto-area AF. **Face-priority AF** is disabled and the focus point is not displayed.

The Remote Photography Display

The remote photography display is shown below.

***Brightness (Nikon 1 J5 only)**: Tapping displays a slider that lets you adjust image brightness using the camera's exposure compensation control.*



***Camera settings**: Shutter speed, aperture, etc. Not displayed when device is in landscape orientation.*

***Thumbnail area**: Downloaded pictures.*

You can also access the following photography-related options by tapping **Settings** in the smart device menu.

- **Remote shooting auto download**: Choose whether to download pictures to the smart device after shooting.
- **Self-timer**: If **ON** is selected, a icon will be displayed and the camera shutter will be released 2 s after you tap the shutter icon. The timer turns off automatically after the shutter is released

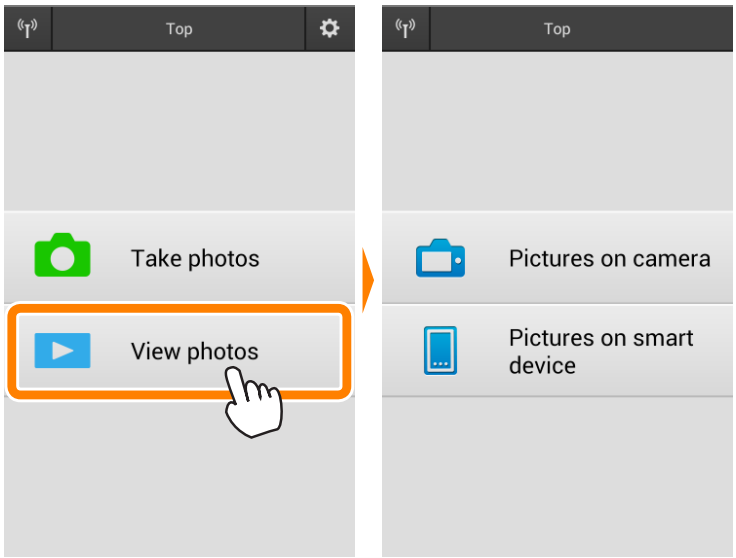
Viewing Photos

Tap **View photos** to view the pictures stored on the smart device. You can also view the pictures on the camera memory card and download selected images to the smart device.

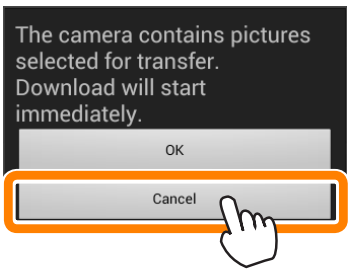
Viewing Pictures

View the pictures in camera memory or on the smart device.

1 Tap **View photos.**

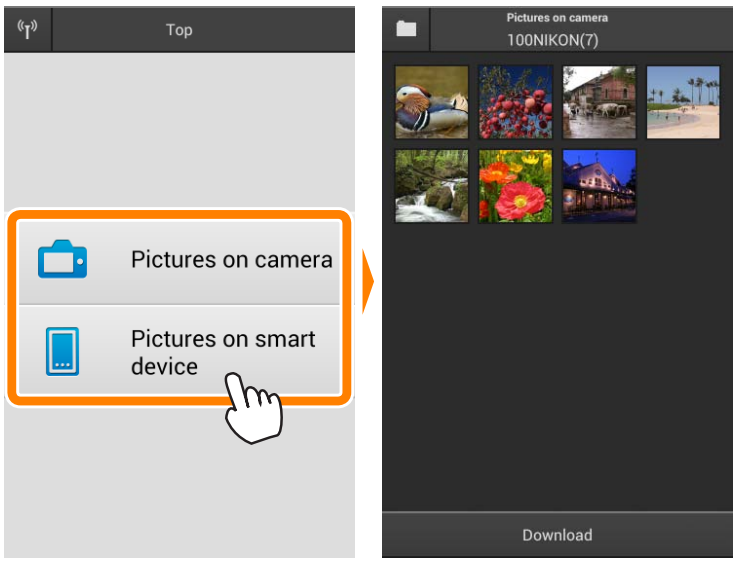


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **Cancel** to view pictures.



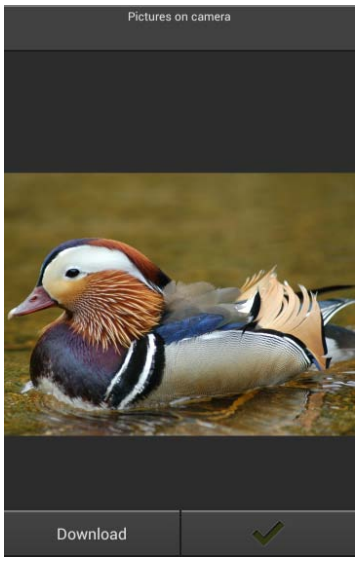
2 Choose a device.

Tap **Pictures on camera** to view the pictures on the camera memory card, **Pictures on smart device** to view the pictures stored on the smart device. The pictures will be displayed as small "thumbnail" images (in some cases, a folder list may be displayed; tap a folder to view the pictures it contains).



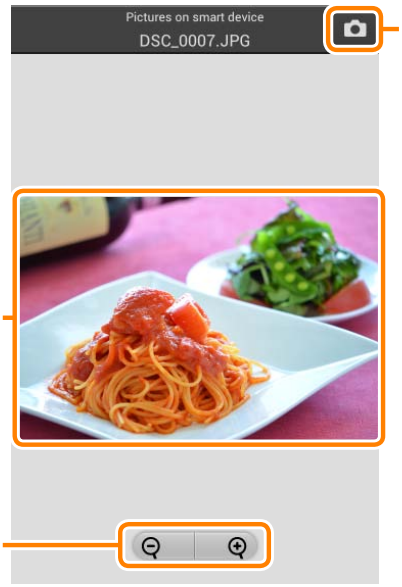
3 View pictures.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to view additional pictures.



The Full-Frame Display

The full-frame display is shown below.



Return to shooting mode (available only if display was accessed by tapping thumbnail in shooting display)

Tap picture to hide or view icons

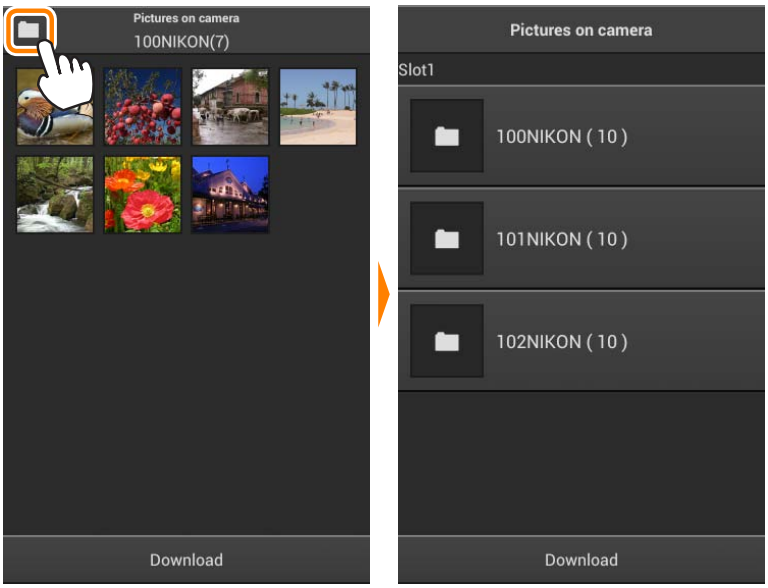
Zoom in or out

Movies

Movies can not be viewed using the Wireless Mobile Utility, but movies can be played back by tapping the movie or playback icon in the thumbnail list to display a list of movie apps and choosing an app from the list.

Folders

Downloaded pictures are stored in folders with names consisting of "C" (for new photos downloaded during shooting) or "D" (for existing pictures downloaded during playback) followed by the date, an underscore, and a 3-digit folder number. A new folder is created each time you launch the Wireless Mobile Utility and either capture new photos or download existing pictures. To view pictures in other folders, tap the folder icon at the top of the display and tap a folder to display its contents.

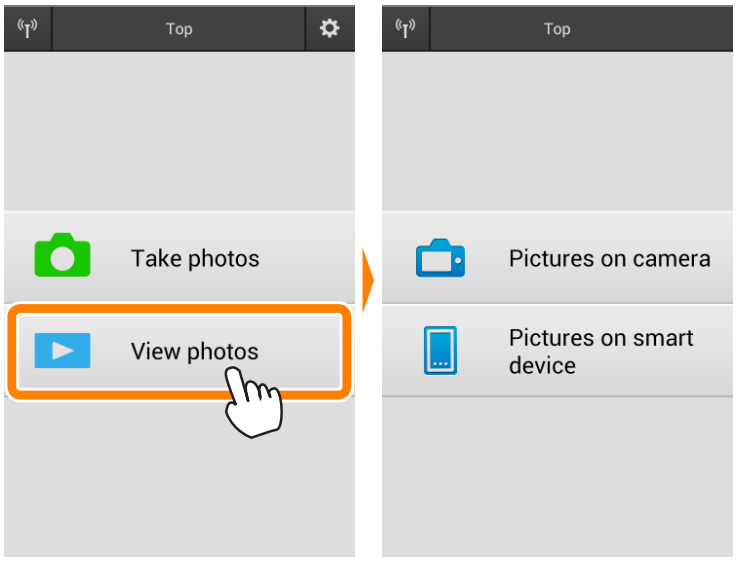


On the smart device, the path to folders created for new photos downloaded during shooting is "/sdcard/Nikon_WU/Capture", while the path to those created for existing pictures downloaded during playback is "/sdcard/Nikon_WU/Card".

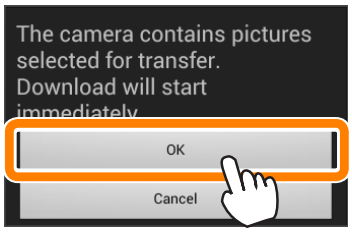
Downloading Existing Pictures

Download pictures from the camera memory card.

1 Tap **View photos.**

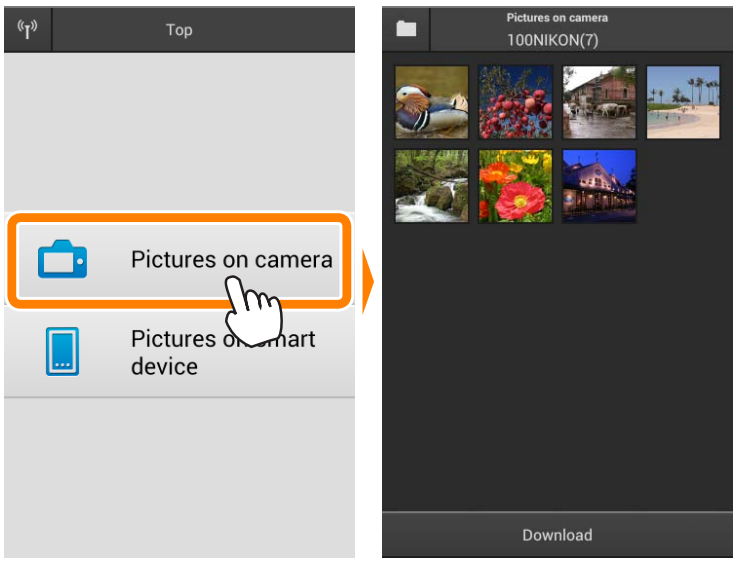


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **OK** to begin download.



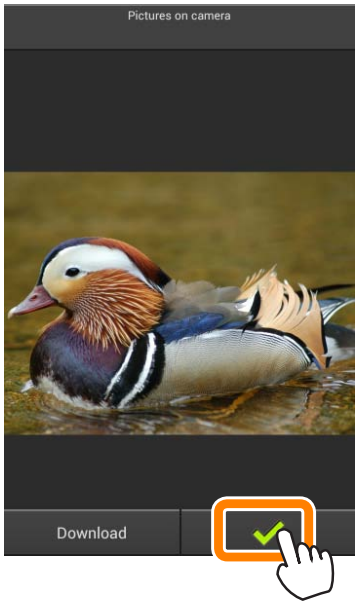
2 Tap **Pictures on camera.**

Tap **Pictures on camera** to view the pictures on the camera.

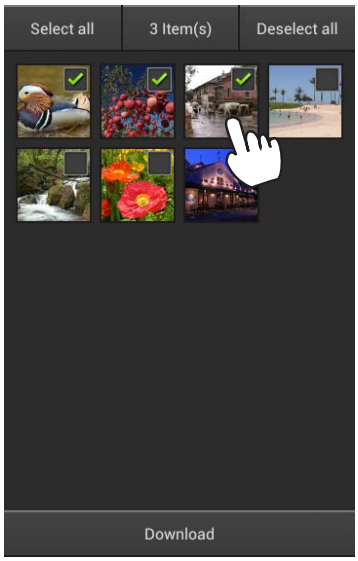


3 Select pictures for download.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to display the desired picture and tap the check mark to select or deselect. Press the back button on the smart device to return to the thumbnail list.



Alternatively, you can select multiple pictures by touching and holding a thumbnail until check boxes are displayed at the top right corner of each picture and then tapping thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.

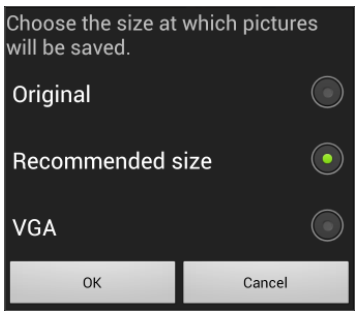


Folders

To select all images in a folder, tap the folder icon at the top of the display and then touch and hold the folder in the folder list.

4 Tap Download.

If only one picture is selected, you will be prompted to choose the size at which the picture will be copied to the smart device.



If multiple pictures are selected, a confirmation dialog will be displayed; tap **Download** to download the pictures at the size selected for **Image size** in the **Settings** menu (page 86).

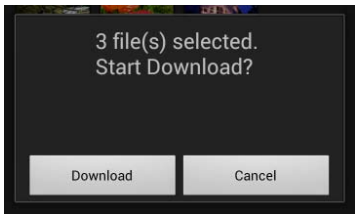
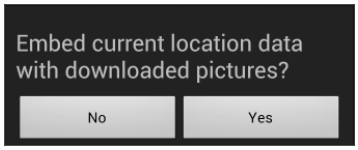


Image Size

Regardless of the size selected, pictures may sometimes be downloaded at their original size.

Location Data

The options shown at right will be displayed if **Settings** > **Embed location data** > **Pictures on camera** is enabled (page 86).



Dropped Connections

If the wireless connection is lost while a picture is being downloaded, the picture will not be saved to the smart device (connection loss may occur if, for example, the camera turns off during download). Any pictures downloaded before the connection was interrupted are unaffected.

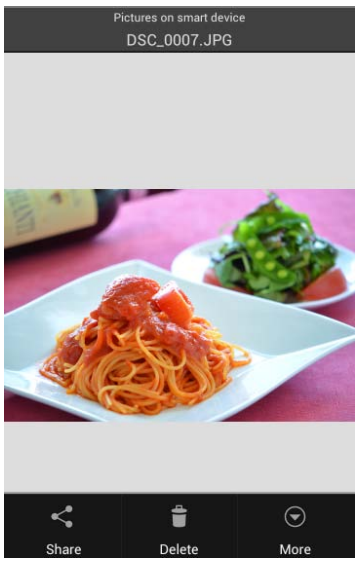
Sharing Pictures

Connect to the Internet before sharing pictures via third-party apps or social networking sites or other services. If you are currently connected to the camera via Wi-Fi, end the connection and connect to a network with Internet access.

Sharing Pictures One at a Time

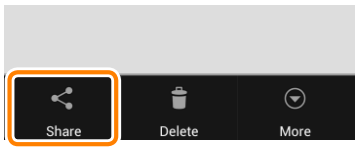
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.



2 Tap Share.

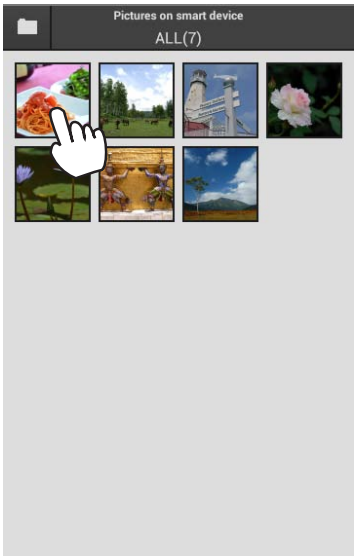
Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Multiple Pictures

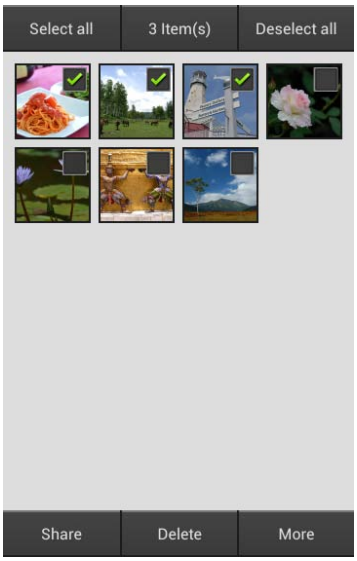
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to share until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



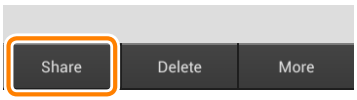
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



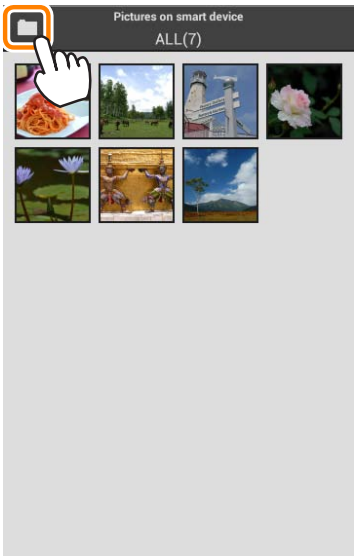
3 Tap Share.

Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Folders

To share all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be shared by tapping **Share** as described in Step 3.



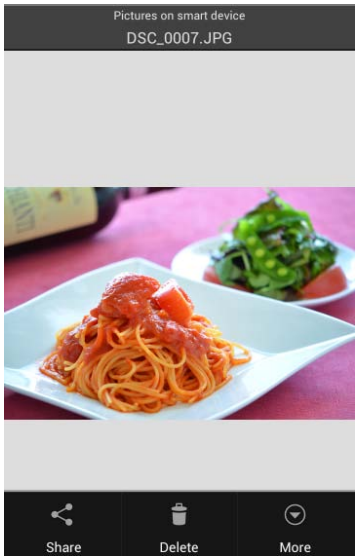
Deleting Pictures

Downloaded pictures can be deleted from the smart device one at a time or in groups. The Wireless Mobile Utility can not be used to delete pictures from the camera memory card.

Deleting Pictures One at a Time

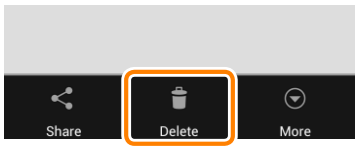
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.

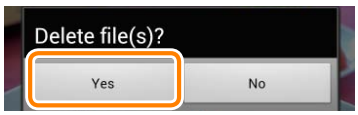


2 Tap Delete.

Tap **Delete**.



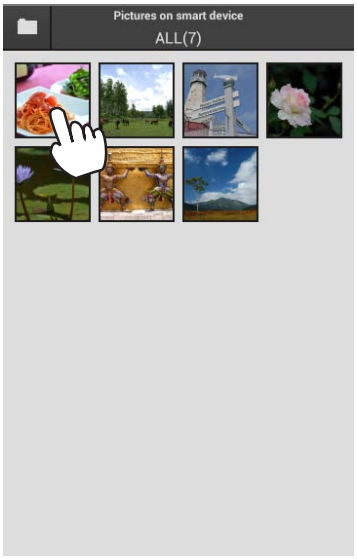
A confirmation dialog will be displayed; tap **Yes**.



Deleting Multiple Pictures

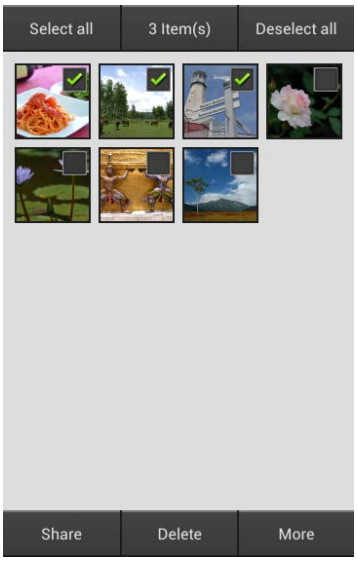
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to delete until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



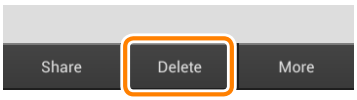
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



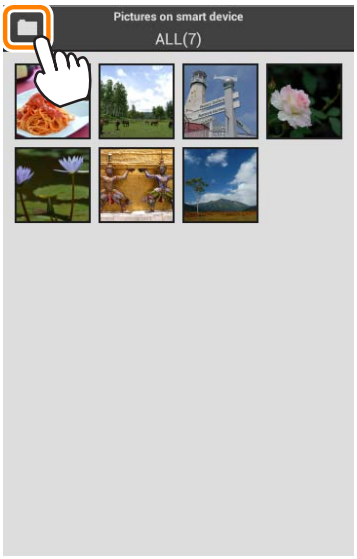
3 Tap Delete.

A confirmation dialog will be displayed; tap **Yes**.



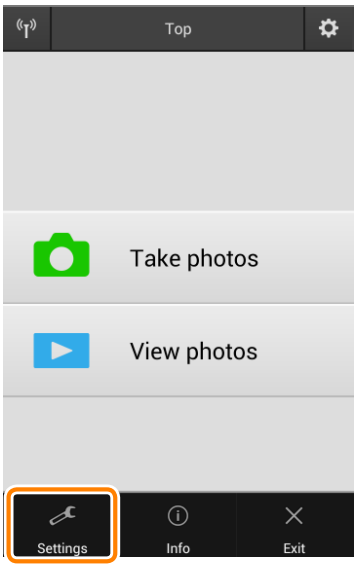
Deleting Folders

To delete all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be deleted by tapping **Delete** as described in Step 3.



Wireless Mobile Utility Options

To access the options listed below, tap the ⚙ icon at the top right corner of the display or use the smart device menu in the Wireless Mobile Utility home display.



Settings

Option	Description
Synchronize clock	Choose whether to synchronize the camera clock with the smart device.
Battery options	Remote photography will end automatically when the camera or smart device battery reaches the selected level.
Thumbnails	Choose the size of the thumbnails in the playback display.
Embed location data	Choose whether to embed smart device location data in pictures not already containing location data provided by the camera. Note that devices not equipped with GPS or comparable location data functions may fail to supply the correct location.
Image size	When downloading multiple images, select **Recommended size** or **VGA** to copy images at sizes approximately equivalent to 1920 × 1080 or 640 × 480, respectively.
App auto launch	If **ON** is selected, the Wireless Mobile Utility will launch automatically when the smart device detects a signal from the wireless mobile adapter.

Option	Description
Wireless Mobile Adapter settings	Adjust network settings for the wireless mobile adapter. Not available with the Nikon 1 J5.
SSID	Choose an SSID for the wireless mobile adapter. The smart device displays the SSID when you connect to the network manually.
Authentication/ encryption	Choose the authentication method used for connection to the network.
Password	Enter a password. The password type is selected using **Advanced settings** > **Password entry**: choose **ASCII** for an 8- to 63-character alphanumeric password, **HEX** for a 64-digit hexadecimal password.
Channel	Choose the wireless channel used by the network.
Auto power-off delay	Choose the delay before the wireless mobile adapter enters sleep when there is no wireless connection.
Advanced settings	• **WPS PIN**: Set the wireless mobile adapter WPS PIN. • **WPS mode**: Select the adapter WPS mode. • **Password entry**: Choose the password type. • **Sub-net mask**: Enter a subnet mask. • **DHCP server IP address**: Enter the wireless mobile adapter IP address. • **DHCP client IP address**: Enter the smart device IP address.
Current settings	View current wireless mobile adapter settings.
Format settings	Tap **Yes** to restore default settings.
Language	Choose the language in which the user interface for the Wireless Mobile Utility is displayed.

Info

Option	Description
Camera	The name of the camera currently connected.
Wireless Mobile Adapter	View information about the wireless mobile adapter.
Link speed	View the transmission rate.
Serial number	View the product serial number.
Firmware version	View the current firmware version.
App	Select **About** to view Wireless Mobile Utility version information, **Check for updates** to connect to the Google Play service and check for updates, or **License Terms and Conditions** to view the terms of use for this application.

Exit

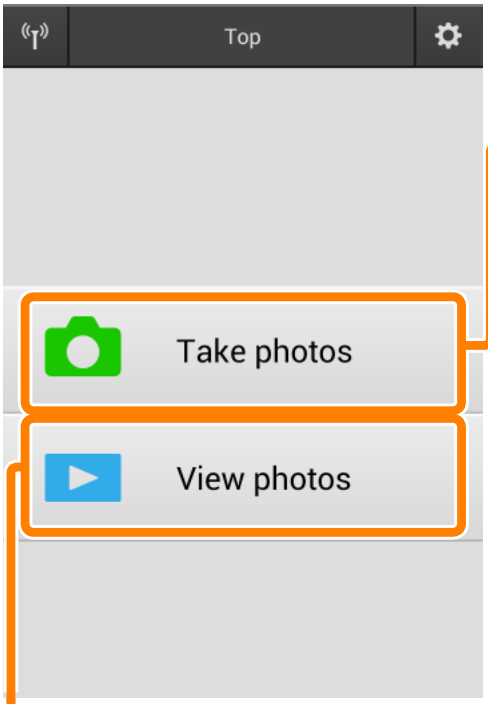
Exit the Wireless Mobile Utility.

Other COOLPIX Cameras

This section describes the options available when the Wireless Mobile Utility is used with COOLPIX cameras that offer built-in Wi-Fi or support the optional wireless mobile adapter.

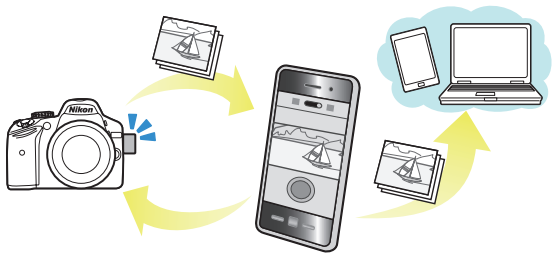
Features

Use the Wireless Mobile Utility to:



Take pictures remotely (101): Tap the shutter icon in the Wireless Mobile Utility to take pictures and download them to the smart device.

Download pictures as they are taken (104): Take pictures with a compatible camera and save them to the smart device.



View pictures (106): View the pictures stored on the smart device or the camera memory card.

Download pictures (110): Download existing pictures from the camera memory card.

Share pictures (113): Share pictures via e-mail or upload pictures to photo-sharing sites.

For information on establishing a connection, see page 91.

Notices

- No part of this manual may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice. Nikon will not be held liable for damages that may result from any mistakes that this manual may contain.

System Requirements

Before installing the Wireless Mobile Utility, confirm that your smart device meets the following system requirements:

OS	Android 5.0 or later
Wireless LAN	11b/g/n
Screen resolution	800 × 480 pixels (WVGA) or higher

☑ Using This Application for the First Time

You must accept the terms and conditions of the End User License Agreement (EULA) before connecting.

☑ Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (🕮 93). If you are using a wireless mobile adapter, be sure to enable Wi-Fi security on the smart device after connecting for the first time. If you are using a camera with built-in Wi-Fi, enable security on the camera before connecting (🕮 98).

☑ Wi-Fi

The camera Wi-Fi function is available only when a memory card is inserted and no USB or HDMI cables are connected.

Installing the App

1 Locate the app on Google Play.
Connect to Google Play on the smart device and search for "Wireless Mobile Utility".

2 Install the app.
Install the Wireless Mobile Utility.

Establishing a Wireless Connection

The procedure varies with the type of camera.

Cameras with Built-in Wireless LAN

See the camera manual.

NFC Devices

If both the camera and smart device support NFC, a connection can be established simply by touching the smart device to the camera.

1 Enable NFC on the smart device.
See the documentation provided with the device for details.

2 Touch the NFC antenna on the smart device to the N (N-Mark) on the camera.
The Wireless Mobile Utility will launch and establish a connection to the camera; connection status is shown in the camera monitor. See pages 101 and 106 for information on taking and viewing pictures once a connection is established.

NFC Antennas

See the documentation for the camera and smart device for information on the locations of the NFC antennas.

Cameras Without Built-in Wireless LAN or NFC

1 Connect the wireless mobile adapter.
Attach the wireless mobile adapter to the camera and turn the camera on. See the manual supplied with the wireless mobile adapter for details.

2 Ready the smart device.
Select **Wi-Fi settings** > **WPS button connection**. The smart device will wait for a signal from the camera.

3 Press the WPS button.
Press the WPS button on the wireless mobile adapter for about 5 s until the LED on the wireless mobile adapter flashes red and green.

4 Launch the Wireless Mobile Utility.
When a connection is established, the LED on the wireless mobile adapter will glow green and the main dialog for the Wireless Mobile Utility will be displayed on the smart device. For information on taking pictures, see page 101. For information on viewing pictures, see page 106.

NFC

NFC (Near Field Communication) is an international standard for short-range wireless communications technology.

WPS

WPS (Wi-Fi Protected Setup) is a standard designed to make it easy to establish a secure wireless network. For information on the steps involved and the length of time the smart device will wait for a connection, see the documentation supplied with the smart device.

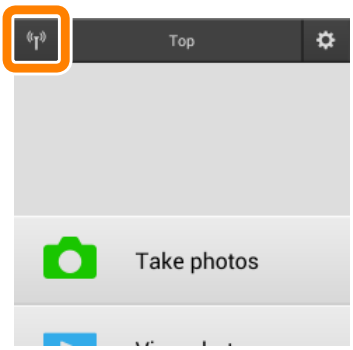
Manual Wi-Fi Connections

1. Display Wi-Fi settings for the smart device.
2. Select the appropriate SSID (the default SSID begins with "Nikon"). If you are using a wireless mobile adapter, the LED will light green when a connection is established.
3. Enable Wi-Fi security (94).

Connection Status

Connection status is shown by an icon in the home display:

- : Connection established.
- : No connection. Tap the icon to open the smart device **Wi-Fi settings** menu and check Wi-Fi settings.



The Wireless Mobile Adapter (for Cameras Without Built-in Wi-Fi)

While the adapter is inserted, the camera exposure meters will not turn off; monitor the camera battery level to ensure that the camera does not power off unexpectedly. In addition, some camera menu items may be grayed out and unavailable and the camera can not be used for playback or live view. Movie recording can not be used.

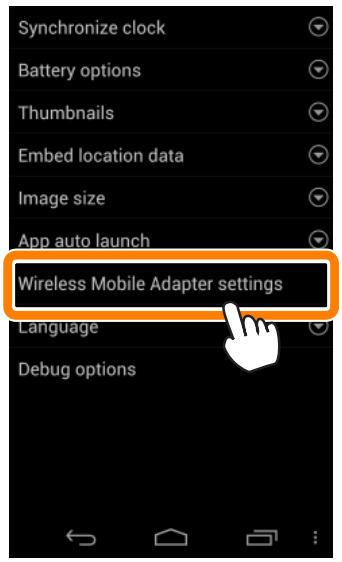
Wi-Fi Security

Password protection and other Wi-Fi security features are not automatically enabled for manual Wi-Fi connections established by selecting the camera SSID (93). If you are using a wireless mobile adapter, be sure to enable Wi-Fi security on the smart device after connecting for the first time (see below). If you are using a camera with built-in Wi-Fi, enable security on the camera before connecting (98).

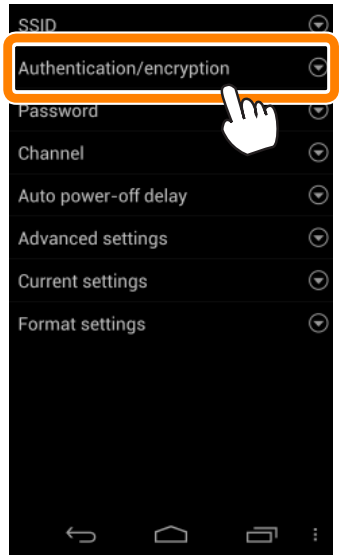
The Wireless Mobile Adapter

To enable wireless security, open the Wireless Mobile Utility settings menu (119) and follow the steps below.

1 Tap Wireless Mobile Adapter settings.



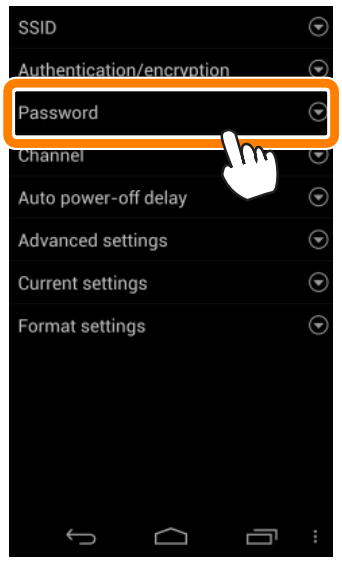
2 Tap **Authentication/encryption.**



3 Select **WPA2-PSK-AES.**

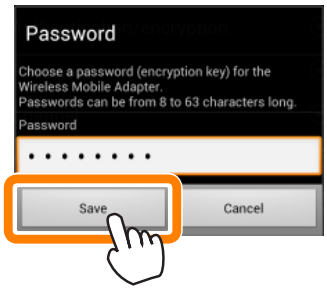
Select **WPA2-PSK-AES** and tap **OK.**

4 Tap **Password.**



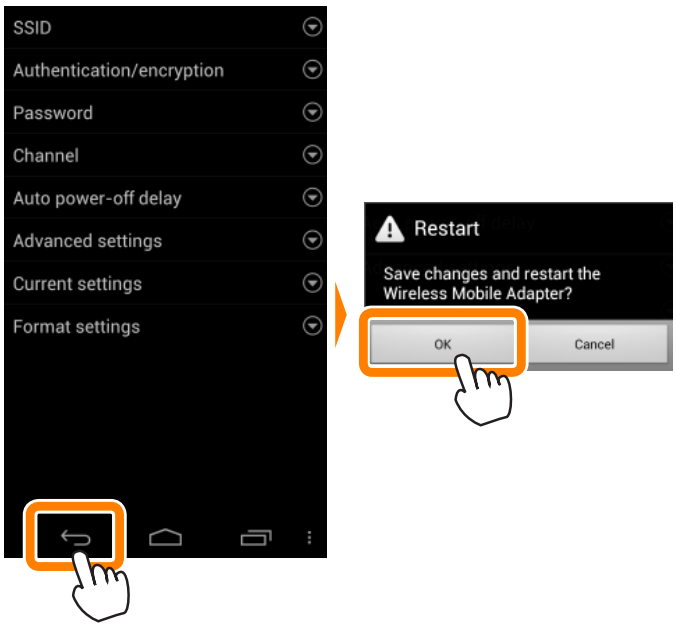
5 Enter a password.

Enter a password and tap **Save** (120). Passwords may be from 8 to 63 characters long.



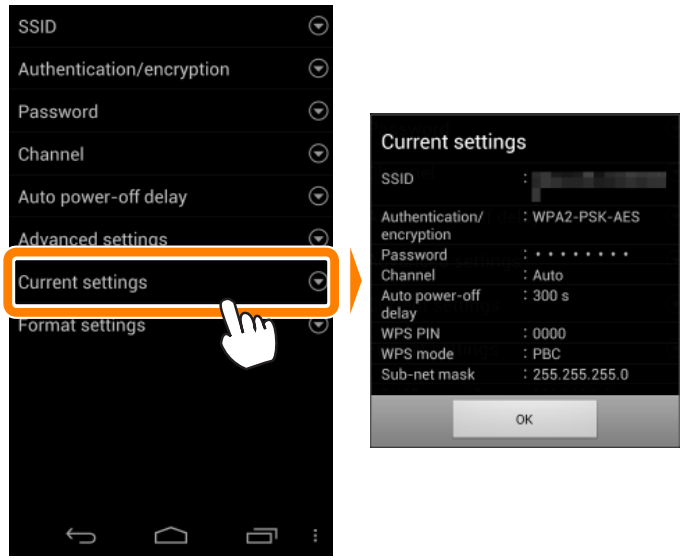
6 Enable wireless security.

Tap . A confirmation dialog will be displayed; tap **OK**.



Viewing Wireless Security Settings

To view the current password and authentication/encryption settings, tap **Current settings** in the Wireless Mobile Adapter settings menu.

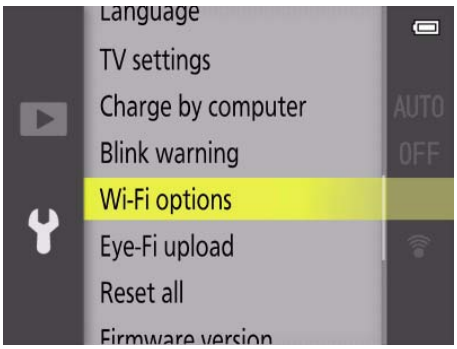


Cameras with Built-in Wi-Fi

Wireless security can be enabled from the camera Wi-Fi options menu or using the Wi-Fi options item in the setup menu. The example below shows the menus for the COOLPIX S5200.

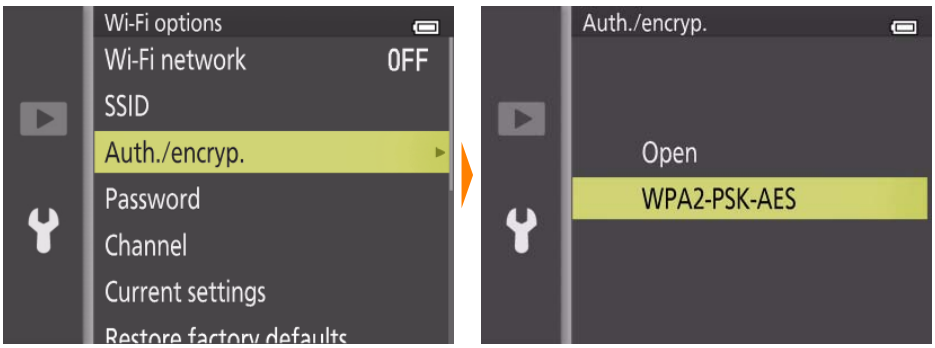
1 Select Wi-Fi options.

Highlight **Wi-Fi options** in the camera setup menu and press ⓞ.



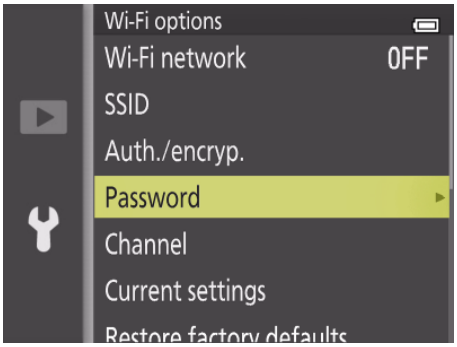
2 Enable encryption.

Select **Auth./encryp.** to display encryption options. Highlight **WPA2-PSK-AES** and press ⓞ to return to the Wi-Fi options menu.



3 Select **Password**.

Highlight **Password** and press OK.

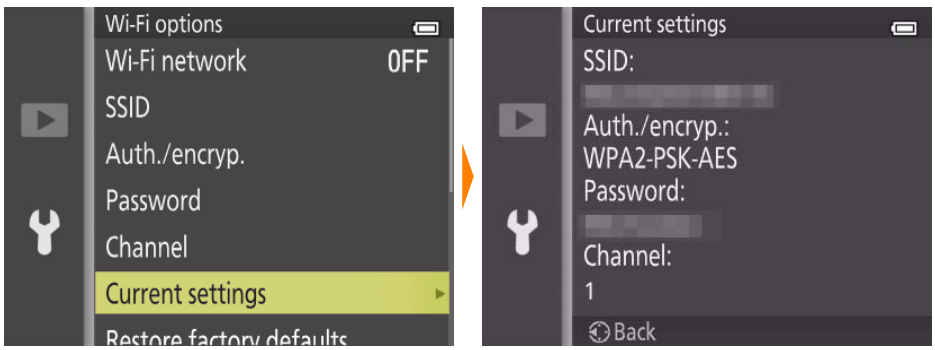


4 Enter a password.

Enter a password and press ↵. The password may be between 8 and 16 characters long. The smart device may prompt you to enter the password the next time you connect to the camera.

Viewing Wireless Security Settings

To view the current password and authentication/encryption settings, highlight **Current settings** in the Wi-Fi options menu and press OK.



Security

Although one of the benefits of a wireless-enabled device is that it allows others to freely connect for the wireless exchange of data anywhere within its range, the following may occur if security is not enabled:

- **Data theft**: Malicious third-parties may intercept wireless transmissions to steal user IDs, passwords, and other personal information.
- **Unauthorized access**: Unauthorized users may gain access to the network and alter data or perform other malicious actions. Note that due to the design of wireless networks, specialized attacks may allow unauthorized access even when security is enabled.

Taking Photos

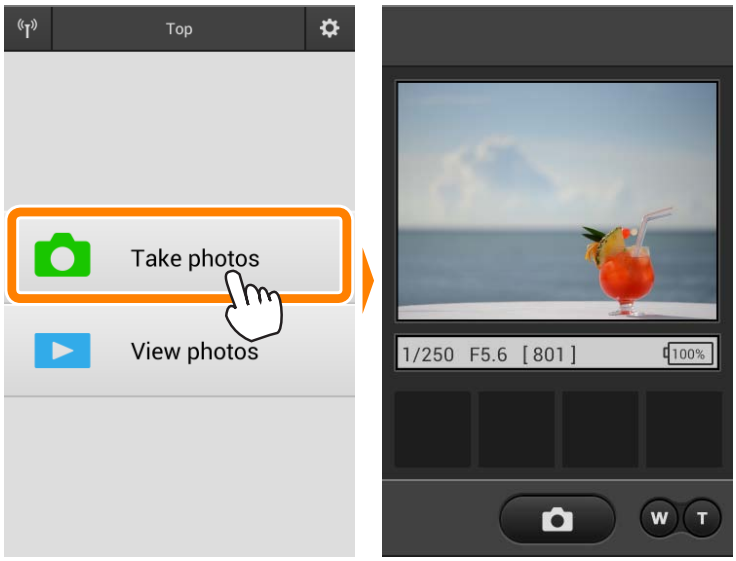
Take pictures remotely from the smart device, or take pictures with the camera and save them to the smart device.

Remote Photography

Follow the steps below to take photos from the smart device.

1 Tap **Take photos.**

The camera viewfinder will go dark and the smart device will display the view through the camera lens.



2 Tap the shutter icon.

The shutter will be released after you remove your finger from the icon and the camera focuses; the resulting photo is first saved to the camera memory card and then downloaded to the smart device. There is no need to point the smart device at the camera.

☑ Remote Photography

Remote photography ends automatically when the battery in the camera or smart device runs low. Note that using remote photography for an extended period may cause the camera's internal temperature to rise; if necessary, remote photography will end automatically to minimize damage to camera circuits.

The smart device can not be used to adjust camera settings; use camera controls to adjust settings before starting Step 1. Regardless of the release mode selected with the camera, only one picture will be taken each time you tap the shutter icon. Note that the display may not update smoothly depending on the device and network conditions.

Regardless of the settings selected with the camera, pictures will be taken in 📷 (auto) mode using target finding autofocus. The focus point is not displayed.

The Remote Photography Display

Mode selection: *Tap* to select photo capture mode (compatible cameras only; page 104).

Settings: *The following photography-related options can be accessed from the smart device menu:*

- **Remote shooting auto download**: *Choose whether to download pictures to the smart device after shooting (remote shooting mode only).*
- **Self-timer**: *If* **ON** *is selected, the camera shutter will be released 2 s after you tap the shutter icon. The timer turns off automatically after the shutter is released.*

Self-timer icon: *Displayed when the self-timer is on.*

Camera settings: *Shutter speed, aperture, etc. Not displayed when device is in landscape orientation.*

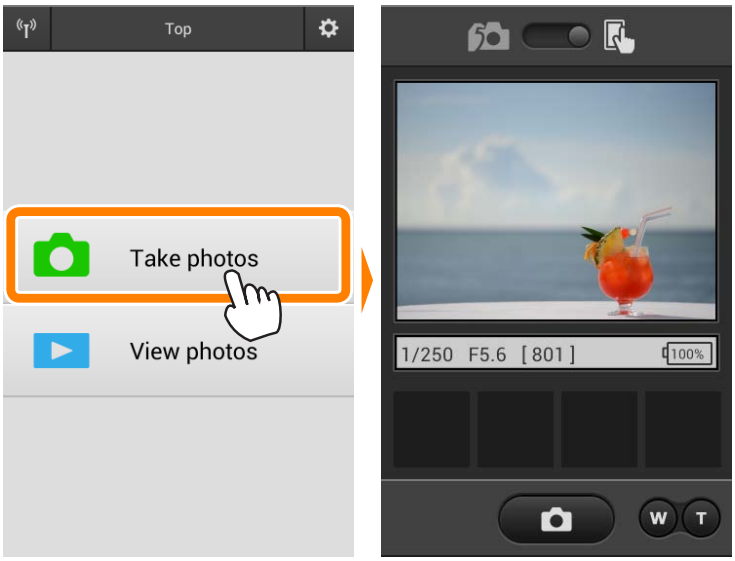
Optical zoom: *Tap* **T** *to zoom in,* **W** *to zoom out.*

Thumbnail area: *Downloaded pictures.*

Downloading Photos as They Are Taken (Supported Cameras Only)

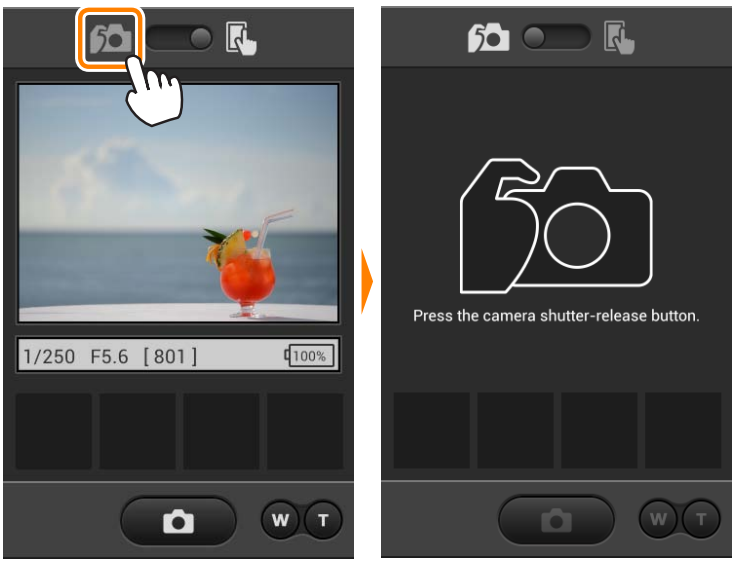
If the camera supports photo capture, the icon shown at right will appear in the shooting display. When photo capture is enabled by tapping the icon, photos will be downloaded to the smart device as they are taken.

1 Tap **Take photos.**



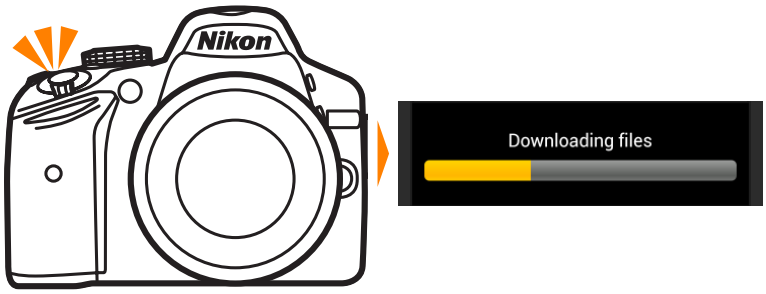
2 Tap .

The dialog shown below at right will be displayed (page 105).



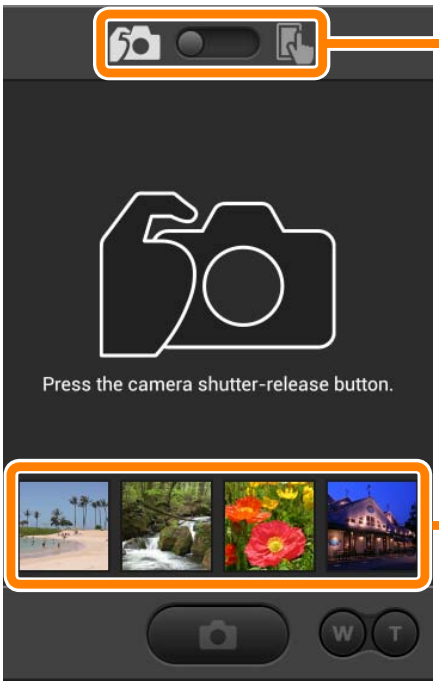
3 Take photos.

Use the camera to frame and shoot photos. Photos are downloaded to the smart device after being saved to the camera memory card.



The Photo Capture Display

The photo capture display is shown below.



Mode selection: *Tap* to select remote shooting mode (page 101).

Thumbnail area: *Downloaded pictures.*

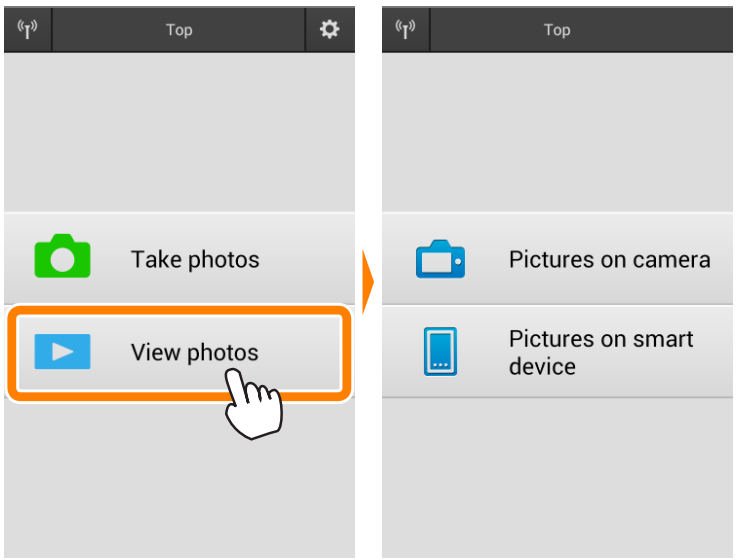
Viewing Photos

Tap **View photos** to view the pictures stored on the smart device. You can also view the pictures on the camera memory card and download selected images to the smart device.

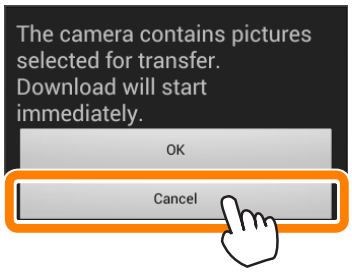
Viewing Pictures

View the pictures in camera memory or on the smart device.

1 Tap **View photos**.

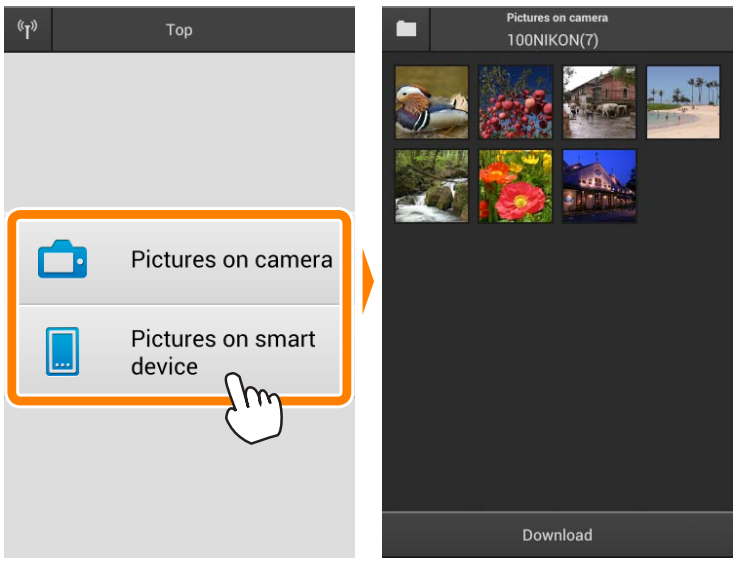


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **Cancel** to view pictures.



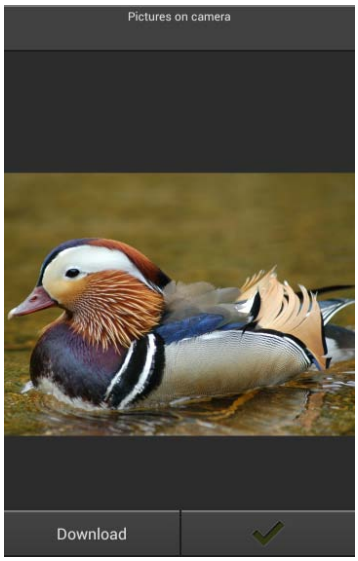
2 Choose a device.

Tap **Pictures on camera** to view the pictures on the camera memory card, **Pictures on smart device** to view the pictures stored on the smart device. The pictures will be displayed as small "thumbnail" images (in some cases, a folder list may be displayed; tap a folder to view the pictures it contains).



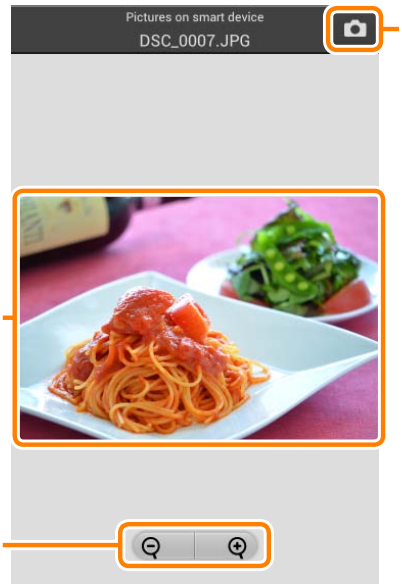
3 View pictures.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to view additional pictures.



The Full-Frame Display

The full-frame display is shown below.



Return to shooting mode (available only if display was accessed by tapping thumbnail in shooting display)

Tap picture to hide or view icons

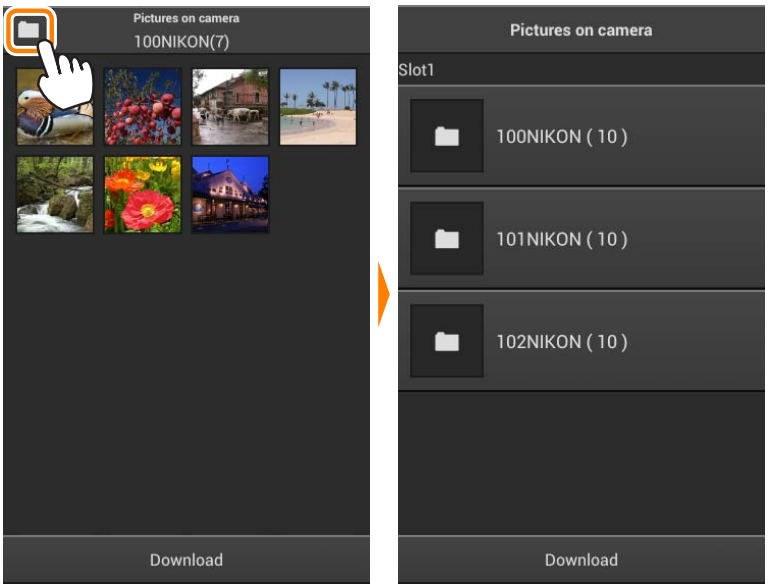
Zoom in or out

Movies

Movies can not be viewed using the Wireless Mobile Utility, but movies can be played back by tapping the movie or playback icon in the thumbnail list to display a list of movie apps and choosing an app from the list.

Folders

Downloaded pictures are stored in folders with names consisting of "C" (for new photos downloaded during shooting) or "D" (for existing pictures downloaded during playback) followed by the date, an underscore, and a 3-digit folder number. A new folder is created each time you launch the Wireless Mobile Utility and either capture new photos or download existing pictures. To view pictures in other folders, tap the folder icon at the top of the display and tap a folder to display its contents.

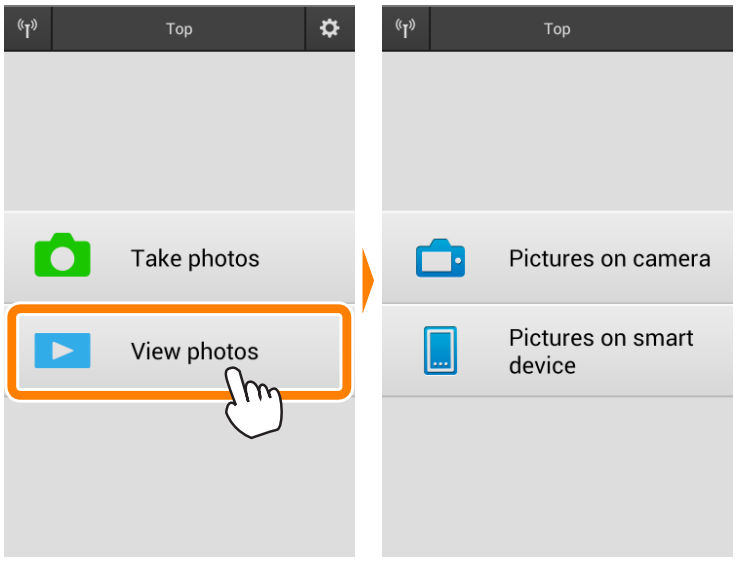


On the smart device, the path to folders created for new photos downloaded during shooting is "/sdcard/Nikon_WU/Capture", while the path to those created for existing pictures downloaded during playback is "/sdcard/Nikon_WU/Card".

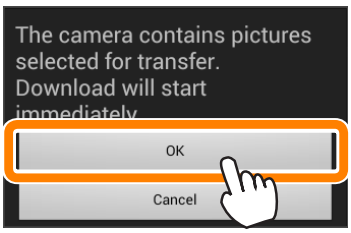
Downloading Existing Pictures

Download pictures from the camera memory card. Note that 3D images are downloaded as 2D JPEG images.

1 Tap **View photos.**

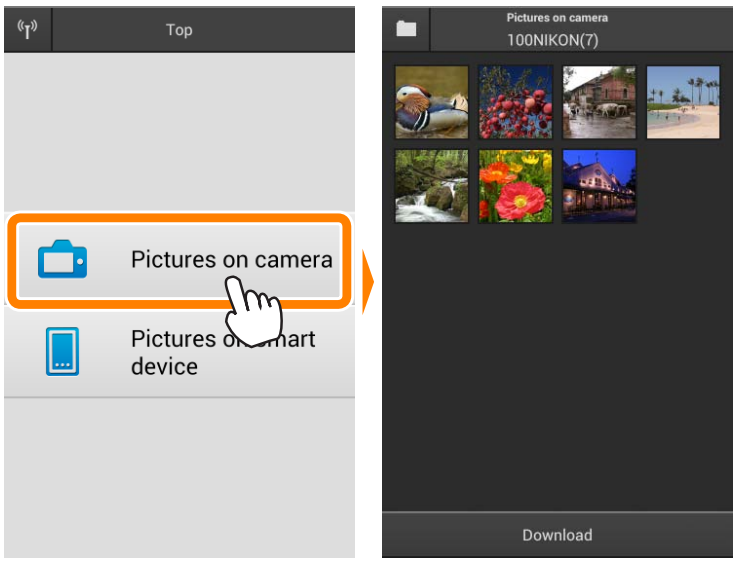


If the camera has an option that can be used to select pictures for transfer, a confirmation dialog will be displayed if any images are currently selected. Tap **OK** to begin download.



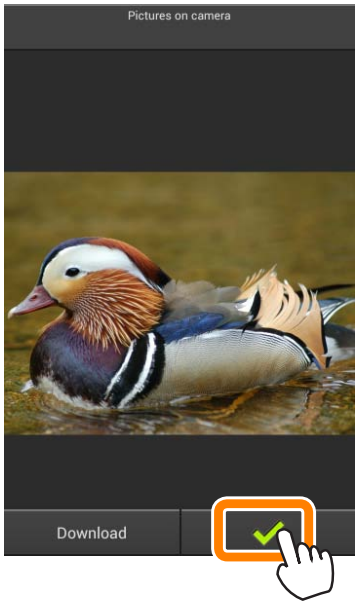
2 Tap **Pictures on camera.**

Tap **Pictures on camera** to view the pictures on the camera.

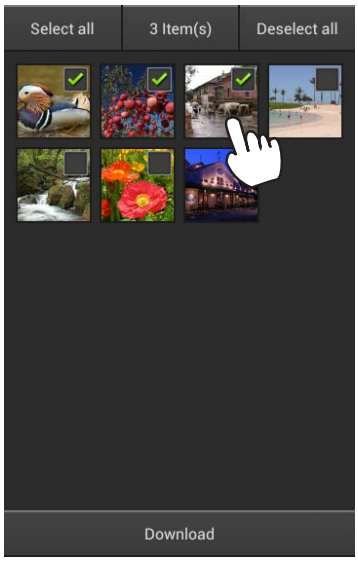


3 Select pictures for download.

Tap a thumbnail to display the picture full frame. You can then swipe left or right to display the desired picture and tap the check mark to select or deselect. Press the back button on the smart device to return to the thumbnail list.



Alternatively, you can select multiple pictures by touching and holding a thumbnail until check boxes are displayed at the top right corner of each picture and then tapping thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.

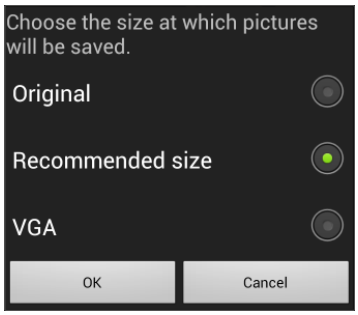


Folders

To select all images in a folder, tap the folder icon at the top of the display and then touch and hold the folder in the folder list.

4 Tap Download.

If only one picture is selected, you will be prompted to choose the size at which the picture will be copied to the smart device.



If multiple pictures are selected, a confirmation dialog will be displayed; tap **Download** to download the pictures at the size selected for **Image size** in the **Settings** menu (page 119).

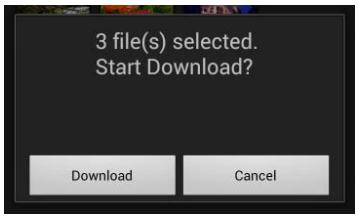
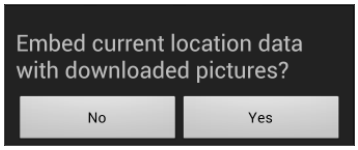


Image Size

Regardless of the size selected, pictures may sometimes be downloaded at their original size.

Location Data

The options shown at right will be displayed if **Settings** > **Embed location data** > **Pictures on camera** is enabled (page 119).



Dropped Connections

If the wireless connection is lost while a picture is being downloaded, the picture will not be saved to the smart device (connection loss may occur if, for example, the camera turns off during download). Any pictures downloaded before the connection was interrupted are unaffected.

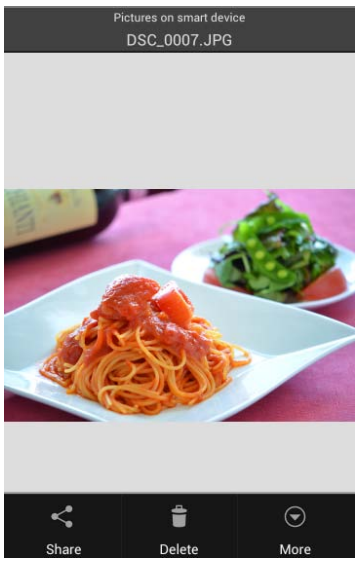
Sharing Pictures

Connect to the Internet before sharing pictures via third-party apps or social networking sites or other services. If you are currently connected to the camera via Wi-Fi, end the connection and connect to a network with Internet access.

Sharing Pictures One at a Time

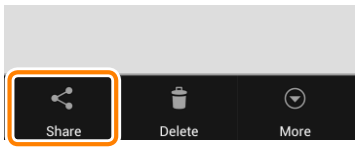
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.



2 Tap Share.

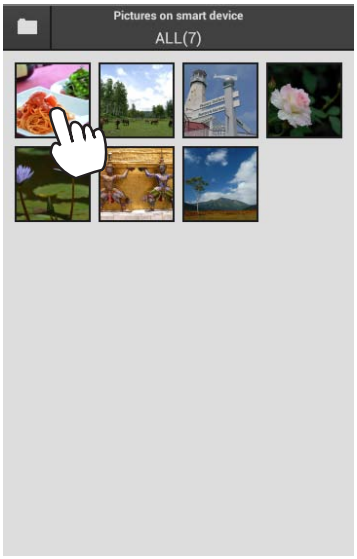
Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Multiple Pictures

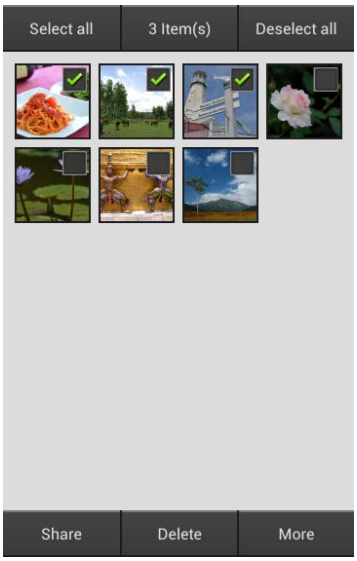
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to share until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



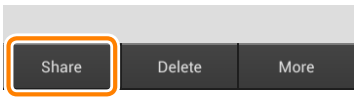
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



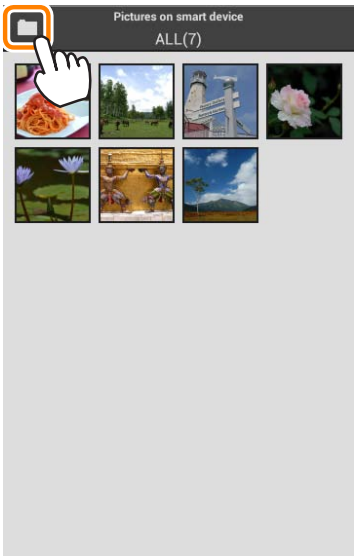
3 Tap Share.

Tap **Share** and choose from a list of picture-sharing apps and functions (the specific contents of the list vary from device to device).



Sharing Folders

To share all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be shared by tapping **Share** as described in Step 3.



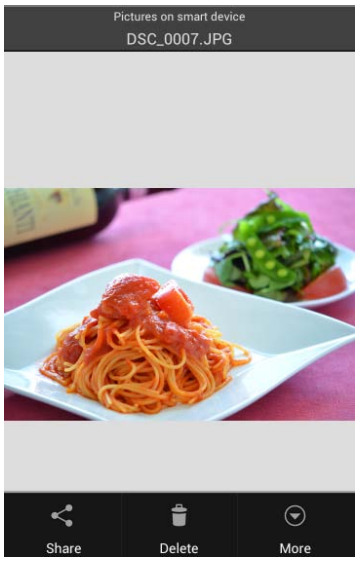
Deleting Pictures

Downloaded pictures can be deleted from the smart device one at a time or in groups. The Wireless Mobile Utility can not be used to delete pictures from the camera memory card.

Deleting Pictures One at a Time

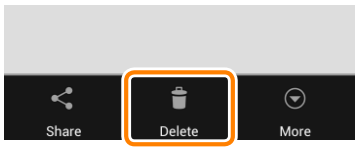
1 Display the smart device menu.

Display a picture full-frame and tap the menu button on the smart device to view menu options.

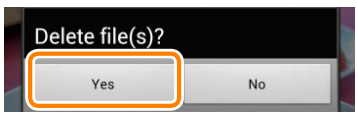


2 Tap Delete.

Tap **Delete**.



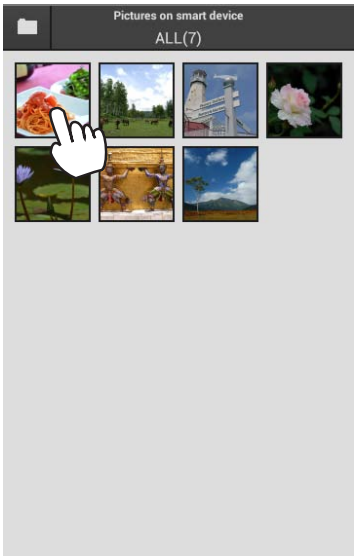
A confirmation dialog will be displayed; tap **Yes**.



Deleting Multiple Pictures

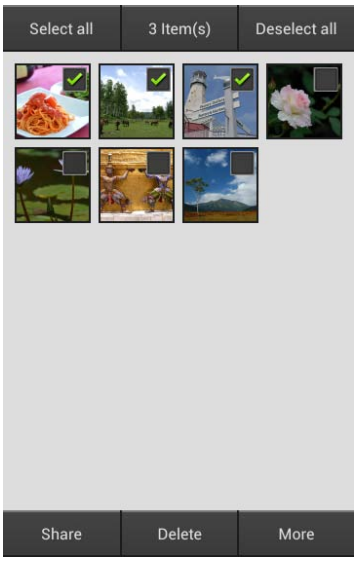
1 Display check boxes.

In the thumbnail list, touch and hold any of the pictures you want to delete until a check mark is displayed in the top right corner and check boxes appear on the remaining images.



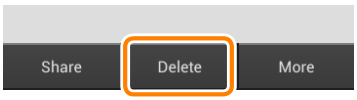
2 Select pictures.

Tap thumbnails to select or deselect. You can also tap **Select all** in the smart device menu to select all images or **Deselect all** to deselect all images.



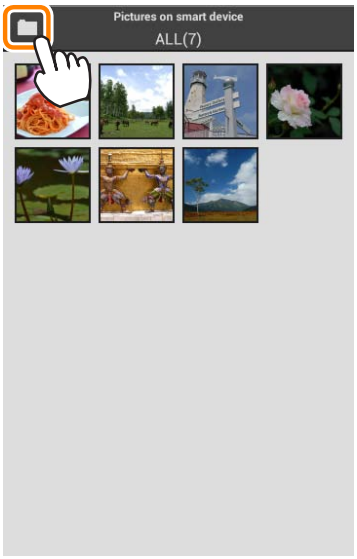
3 Tap Delete.

A confirmation dialog will be displayed; tap **Yes**.



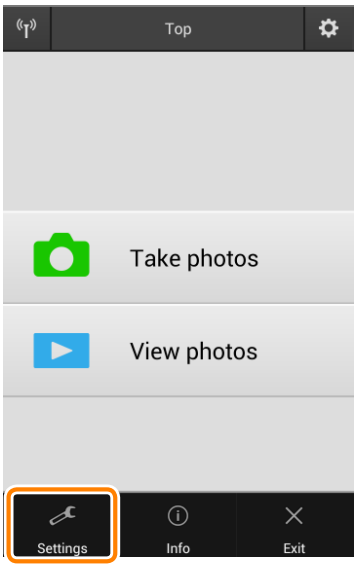
Deleting Folders

To delete all pictures in a folder, tap the folder icon at the top of the display to view folders, then touch and hold a folder to select all the pictures it contains. Selected pictures are indicated by check marks and can be deleted by tapping **Delete** as described in Step 3.



Wireless Mobile Utility Options

To access the options listed below, tap the ⚙ icon at the top right corner of the display or use the smart device menu in the Wireless Mobile Utility home display.



Settings

Option	Description
Synchronize clock	Choose whether to synchronize the camera clock with the smart device.
Battery options	Remote photography will end automatically when the camera or smart device battery reaches the selected level.
Thumbnails	Choose the size of the thumbnails in the playback display.
Embed location data	Choose whether to embed smart device location data in pictures not already containing location data provided by the camera. Note that devices not equipped with GPS or comparable location data functions may fail to supply the correct location.
Image size	When downloading multiple images, select **Recommended size** or **VGA** to copy images at sizes approximately equivalent to 1920 × 1080 or 640 × 480, respectively.
App auto launch	If **ON** is selected, the Wireless Mobile Utility will launch automatically when the smart device detects a signal from the camera.

Option	Description
Wireless Mobile Adapter settings	Adjust network settings for the wireless mobile adapter. Not available with cameras featuring built-in Wi-Fi.
SSID	Choose an SSID for the wireless mobile adapter. The smart device displays the SSID when you connect to the network manually.
Authentication/ encryption	Choose the authentication method used for connection to the network.
Password	Enter a password. The password type is selected using **Advanced settings** > **Password entry**: choose **ASCII** for an 8- to 63-character alphanumeric password, **HEX** for a 64-digit hexadecimal password.
Channel	Choose the wireless channel used by the network.
Auto power-off delay	Choose the delay before the wireless mobile adapter enters sleep when there is no wireless connection.
Advanced settings	• **WPS PIN**: Set the wireless mobile adapter WPS PIN. • **WPS mode**: Select the adapter WPS mode. • **Password entry**: Choose the password type. • **Sub-net mask**: Enter a subnet mask. • **DHCP server IP address**: Enter the wireless mobile adapter IP address. • **DHCP client IP address**: Enter the smart device IP address.
Current settings	View current wireless mobile adapter settings.
Format settings	Tap **Yes** to restore default settings.
Language	Choose the language in which the user interface for the Wireless Mobile Utility is displayed.

Info

Option	Description
Camera	The name of the camera currently connected.
Wireless Mobile Adapter	View information about the wireless connection. The serial number and firmware version are displayed only if the camera is connected via the wireless mobile adapter.
Link speed	View the transmission rate.
Serial number	View the product serial number.
Firmware version	View the current firmware version.
App	Select **About** to view Wireless Mobile Utility version information, **Check for updates** to connect to the Google Play service and check for updates, or **License Terms and Conditions** to view the terms of use for this application.

Exit

Exit the Wireless Mobile Utility.

Trademark Information

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