7

Wi-Fi Functions

Send images wirelessly from the camera to a variety of compatible devices, and use the camera with Web services

Available Wi-Fi Features

You can send and receive images and control the camera remotely by connecting it to these devices and services via Wi-Fi.

- Smartphones and Tablets
  Send images to smartphones and tablet computers that have Wi-Fi functions. You can also shoot remotely and geotag your shots from a smartphone or tablet.
  For convenience in this manual, smartphones, tablets, and other compatible devices are collectively referred to as "smartphones".
- Computer
  Use software to save camera images to a computer connected via Wi-Fi.
- Web Services
  Add your account information to the camera for CANON iMAGE GATEWAY online photography service or other Web services to send camera images to the services. Unsent images on the camera can also be sent automatically to a computer or Web service via CANON iMAGE GATEWAY.
- Printers
  Send images wirelessly to a PictBridge-compatible printer (supporting DPS over IP) to print them.
- Another Camera
  Send images wirelessly between Wi-Fi compatible Canon cameras.

Sending Images to a Smartphone

Connect the camera to a smartphone and send images in either of these ways.

- Connect to a device assigned to the [⬜] button (□123)
  Simply press the [⬜] button to connect the devices. This simplifies importing images from a smartphone (□123). Note that only one smartphone can be assigned to the [⬜] button.
- Connect via the Wi-Fi menu (□125)
  You can connect the camera to a smartphone as you would connect it to a computer or other device. Multiple smartphones can be added.

Before connecting to the camera, you must install the free dedicated CameraWindow app on the smartphone. For details on this application (supported smartphones and included functions), refer to the Canon website.

> 🖉
> - No matter how you connect the devices, you can also use the smartphone to geotag (□141) camera images and shoot remotely (□142).

Sending to a Smartphone Assigned to the Button

Once you have connected to a smartphone initially by pressing the [⬜] button, you can simply press the [⬜] button after that to connect again for viewing and saving camera images on connected devices.
These steps show how to use the camera as an access point, but you can also use an existing access point (□126).
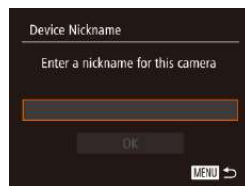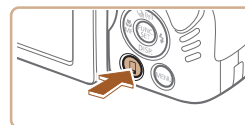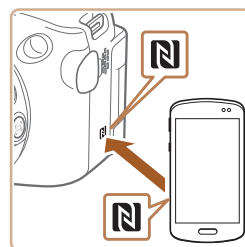
1 Install CameraWindow.
- For an NFC-compatible Android smartphone (OS version 4.0 or later), activating NFC and touching the smartphone against the camera's N-Mark (ℕ) will start Google Play on the smartphone. Once the CameraWindow download page is displayed, download and install the app.
- For other Android smartphones, find CameraWindow in Google Play and download and install the app.
- For an iPhone, iPad, or iPod touch, find CameraWindow in the App Store and download and install the app.

2 Press the [⬜] button.
- Press the [⬜] button.

Device Nickname
Enter a nickname for this camera

- When the [Device Nickname] screen is displayed, press the [⬜] button. Use the keyboard displayed to enter a nickname (□31). On the [Device Nickname] screen, press the [▲][▼] buttons to choose [OK], and then press the [⬜] button.

3 Choose [ ].

- Press the [◀][▶] buttons to choose [ ], and then press the [ ] button.
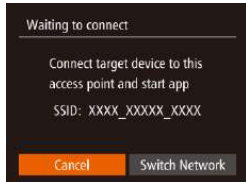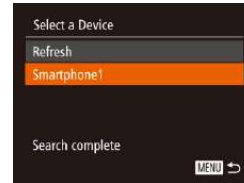
- The camera's SSID is displayed.

4 Connect the smartphone to the network.

- In the smartphone's Wi-Fi setting menu, choose the SSID (network name) displayed on the camera to establish a connection.

5 Start CameraWindow.

- For an NFC-compatible Android smartphone (OS version 4.0 or later), activating NFC and touching the smartphone against the camera's N-Mark (N) will start CameraWindow on the smartphone.

- For other smartphones, start CameraWindow on the smartphone.

- After the camera recognizes the smartphone, a device selection screen is displayed.

6 Choose a smartphone to connect to.

- Press the [▲][▼] buttons to choose the smartphone, and then press the [ ] button.

- After a connection is established with the smartphone, the smartphone name is displayed on the camera. (This screen will close in about one minute.)

7 Import images.

- Use the smartphone to import images from the camera to the smartphone.

- Use the smartphone to end the connection; the camera will automatically turn off.

> ● When using NFC, keep the following points in mind.
> - Avoid strong impact between the camera and smartphone. This may damage the devices.
> - Depending on the smartphone, the devices may not recognize each other immediately. In this case, try holding the devices together in slightly different positions.
> - Do not place other objects between the camera and smartphone. Also, note that camera or smartphone covers or similar accessories may block communication.
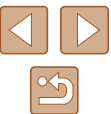
● Connections require that a memory card be in the camera.
● A message is displayed if the nickname you enter begins with a symbol or space. Press the [ ] button and enter a different nickname.
● For better security, you can require password input on the screen in step 3 by accessing MENU (30) and choosing [ ] tab ► [Wi-Fi Settings] ► [Password] ► [On]. In this case, in the password field on the smartphone in step 4, enter the password displayed on the camera.
● One smartphone can be registered to the [ ] button. To assign a different one, first clear the current one in MENU (30) ► [ ] tab ► [Mobile Device Connect Button].
● Not all NFC-compatible smartphones have an N-Mark ( ). For details, refer to the smartphone user manual.
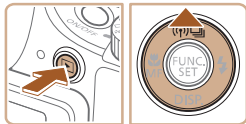
Adding a Smartphone Using the Wi-Fi Menu

These steps show how to use the camera as an access point, but you can also use an existing access point (126).
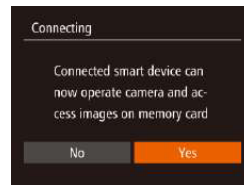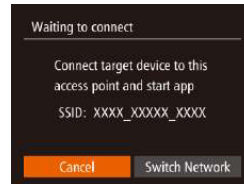
1 Install CameraWindow.

● Follow step 1 in "Sending to a Smartphone Assigned to the Button" (123) to install CameraWindow on a smartphone.

2 Access the Wi-Fi menu.

● Press the [ ] button to turn the camera on.

● Press the [▲] button.

● If a screen requesting the device nickname is displayed, enter the nickname (123).

3 Choose [ ].

● Press the [◄][►] buttons to choose [ ], and then press the [ ] button.

4 Choose [Add a Device].

● Press the [▲][▼] buttons to choose [Add a Device], and then press the [ ] button.

● The camera's SSID is displayed.

● Choose a smartphone to connect to, as described in steps 4 – 6 of "Sending to a Smartphone Assigned to the Button" (123).

5 Adjust the privacy setting.

● Press the [◄][►] buttons to choose [Yes], and then press the [ ] button.

● You can now use the smartphone to browse, import, or geotag images on the camera or shoot remotely.
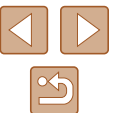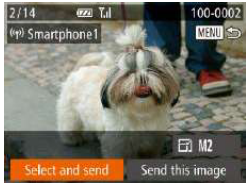
6 **Send images.**

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [⊛] button.

- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [⊛] button to mark it as selected ([✓]), and then press the [MENU] button.

- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [⊛] button.

- Image transfer will begin. The screen darkens during image transfer.

- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.

- To cancel the connection, press the [MENU] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [⊛] button. You can also use the smartphone to end the connection.

- To add multiple smartphones, repeat the above procedures starting from step 1.

- All images in the camera can be viewed from the connected smartphone when you choose [Yes] in step 5. To keep camera images private, so that they cannot be viewed from the smartphone, choose [No] in step 5.
- Once you have registered a smartphone, you can change privacy settings for it on the camera (￼143).

- Connections require that a memory card be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [⊛] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (￼30) ▶ [￼] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- You can also send multiple images at once and change the image size before sending (￼138).
- You can send the current image by choosing [Send this image] on the screen in step 6.

Using Another Access Point

When connecting the camera to a smartphone with the [￼] button or through the Wi-Fi menu, you can also use an existing access point.

1 **Prepare for the connection.**

- Access the [Waiting to connect] screen. Either follow steps 1 – 3 in "Sending to a Smartphone Assigned to the Button" (￼123) or steps 1 – 4 in "Adding a Smartphone Using the Wi-Fi Menu" (￼125).

2 **Connect the smartphone to the access point.**
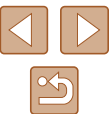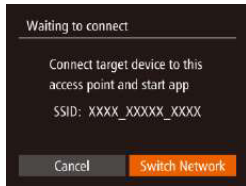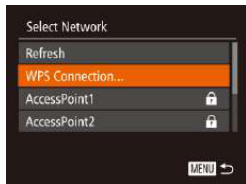
3 Choose [Switch Network].
- Press the [◀][▶] buttons to choose [Switch Network], and then press the [⬤] button.
- A list of detected access points will be displayed.

4 Connect to the access point and choose the smartphone.
- For WPS-compatible access points, connect to the access point and choose the smartphone as described in steps 5 – 8 in "Using WPS-Compatible Access Points" (📖130).
- For non-WPS access points, follow steps 2 – 4 in "Connecting to Listed Access Points" (📖132) to connect to the access point and choose the smartphone.

5 Configure the privacy settings and send images.
- Follow steps 5 – 6 in "Adding a Smartphone Using the Wi-Fi Menu" (📖125) to configure the privacy settings and send images.

Previous Access Points

To reconnect to a previous access point automatically, follow step 3 in "Sending to a Smartphone Assigned to the Button" (📖123) or step 4 in "Adding a Smartphone Using the Wi-Fi Menu" (📖125).
- To use the camera as an access point, choose [Switch Network] on the screen displayed when you establish a connection, and then choose [Camera Access Point Mode].
- To reconnect to a previous access point, follow the procedure from step 5 in "Using Another Access Point" (📖126).
- To switch access points, choose [Switch Network] on the screen displayed when you establish a connection, and then follow the procedure in "Using Another Access Point" (📖126) from step 4.

Saving Images to a Computer

Preparing to Register a Computer

Checking Your Computer Environment

The camera can connect via Wi-Fi to computers running the following operating systems. For detailed system requirements and compatibility information, including support in new operating systems, visit the Canon website.
- Windows 8/8.1
- Windows 7 SP1
- Mac OS X 10.9
- Mac OS X 10.8.2 or later

⚠
- Windows 7 Starter and Home Basic editions are not supported.
- Windows 7 N (European version) and KN (South Korean version) require a separate download and installation of Windows Media Feature Pack.
  For details, check the following website.
  http://go.microsoft.com/fwlink/?LinkId=159730

Installing the Software

Windows 7 and Mac OS X 10.8 are used here for the sake of illustration.

What you will need:

- Computer
- USB cable (camera end: Mini-B)*
* A USB cable is not included. Although you can install the software without using a cable, some features will not be added.

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1 **Download the software.**

- With a computer connected to the Internet, access http://www.canon.com/icpd/.
- Access the site for your country or region.
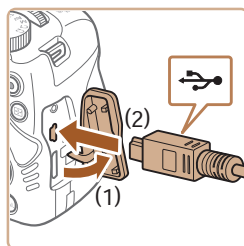- Download the software.

2 **Begin the installation.**

- Click [Easy Installation] and follow the on-screen instructions to complete the installation process.
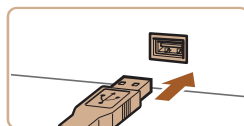
3 **When a message is displayed prompting you to connect the camera, choose whether to connect or not.**

When Connecting the Camera to the Computer

- With the camera turned off, open the cover (1). With the smaller plug of the USB cable in the orientation shown, insert the plug fully into the camera terminal (2).

- Insert the larger plug of the USB cable in the computer's USB port. For details about USB connections on the computer, refer to the computer user manual.
- Turn the camera on, and follow the on-screen instructions to complete the installation process.

Without Connecting the Camera

- Select [Install without connecting the device] and follow the on-screen instructions to complete the installation process.

4 **Install the files.**

- Installation may take some time, depending on computer performance and the Internet connection.
- Click [Finish] or [Restart] on the screen after installation.
- After installation when the camera is connected to the computer, turn the camera off before disconnecting the cable.

- Because the content and functions of software vary according to the camera model, if you have several cameras, you must use each camera to update to its latest version of the software.
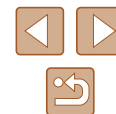
■ Configuring the Computer for a Wi-Fi Connection (Windows Only)

On a computer running Windows, configure the following settings before connecting the camera to the computer wirelessly.

1 Confirm that the computer is connected to an access point.

● For instructions on checking your network connection, refer to the computer user manual.

2 Configure the setting.

● Click in the following order: [Start] menu ► [All Programs] ► [Canon Utilities] ► [CameraWindow] ► [Wi-Fi connection setup].

● In the application that opens, follow the on-screen instructions and configure the setting.

● The following Windows settings are configured when you run the utility in step 2.
  - Turn on media streaming.
    This will enable the camera to see (find) the computer to access via Wi-Fi.
  - Turn on network discovery.
    This will enable the computer to see (find) the camera.
  - Turn on ICMP (Internet Control Message Protocol).
    This allows you to check the network connection status.
  - Enable Universal Plug & Play (UPnP).
    This will enable network devices to detect each other automatically.
● Some security software may prevent you from completing the settings as described here. Check the settings of your security software.

Saving Images to a Connected Computer

Connect to your access point via Wi-Fi as follows.
Also refer to the access point user manual.

■ Confirming Access Point Compatibility

Confirm that the Wi-Fi router or base station conforms to the Wi-Fi standards in "Wi-Fi" (□196).
Connection methods vary depending on whether the access point supports Wi-Fi Protected Setup (WPS, □130) or not (□132). For non-WPS access points, check the following information.

● Network name (SSID/ESSID)
  The SSID or ESSID for the access point you use. Also called the "access point name" or "network name".
● Network authentication / data encryption (encryption method / encryption mode)
  The method for encrypting data during wireless transmission. Check which security setting is used: WPA2-PSK (AES), WPA2-PSK (TKIP), WPA-PSK (AES), WPA-PSK (TKIP), WEP (open system authentication), or no security.
● Password (encryption key / network key)
  The key used when encrypting data during wireless transmission. Also called the "encryption key" or "network key".
● Key index (transmit key)
  The key set when WEP is used for network authentication / data encryption. Use "1" as the setting.

● If system administrator status is needed to adjust network settings, contact the system administrator for details.
● These settings are very important for network security. Exercise adequate caution when changing these settings.

● For information on WPS compatibility and for instructions on
  checking settings, refer to the access point user manual.
● A router is a device that creates a network (LAN) structure for
  connecting multiple computers. A router that contains an internal
  Wi-Fi function is called a "Wi-Fi router".
● This guide refers to all Wi-Fi routers and base stations as "access
  points".
● If you use MAC address filtering on your Wi-Fi network, be sure
  to add the camera's MAC address to your access point. You can
  check your camera's MAC address by choosing MENU (📖30)
  ▶ [⍓] tab ▶ [Wi-Fi Settings] ▶ [Check MAC Address].

◼ Using WPS-Compatible Access Points

WPS makes it easy to complete settings when connecting devices over
Wi-Fi. You can use either Push Button Configuration Method or PIN
Method for settings on a WPS supported device.

**1 Confirm that the computer is
   connected to an access point.**

● For instructions on checking the
  connection, refer to the device and
  access point user manuals.

2 Access the Wi-Fi menu.

● Press the [▶] button to turn the camera
  on.
● Press the [▲] button.
● When the [Device Nickname] screen is
  displayed, press the [⬤] button. Use the
  keyboard displayed to enter a nickname
  (📖31). On the [Device Nickname]
  screen, press the [▲][▼] buttons to
  choose [OK], and then press the [⬤]
  button.
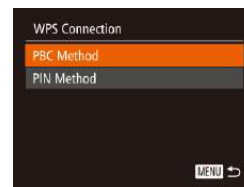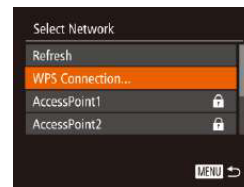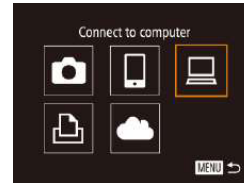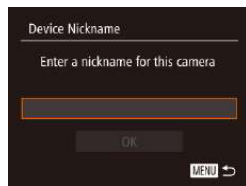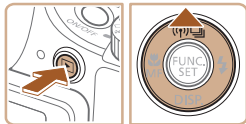
3 Choose [🖥].

● Press the [▲][▼][◀][▶] buttons to choose
  [🖥], and then press the [⬤] button.

4 Choose [Add a Device].

● Press the [▲][▼] buttons to choose [Add
  a Device], and then press the [⬤] button.

5 Choose [WPS Connection].

● Press the [▲][▼] buttons to choose
  [WPS Connection], and then press the
  [⬤] button.

6 Choose [PBC Method].

● Press the [▲][▼] buttons to choose [PBC
  Method], and then press the [⬤] button.
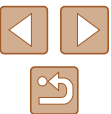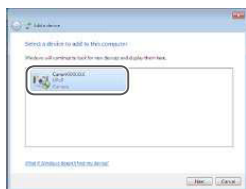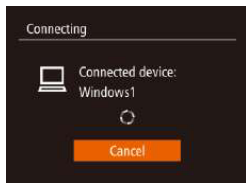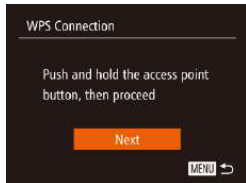
7 Establish the connection.

- On the access point, hold down the WPS connection button for a few seconds.

- On the camera, press the [⊛] button to go to the next step.

- The camera connects to the access point and lists devices connected to it on the [Select a Device] screen.

8 Choose the target device.

- Press the [▲][▼] buttons to choose the target device name, and then press the [⊛] button.

9 Install a driver (first Windows connection only).

- When this screen is displayed on the camera, click the Start menu on the computer, click [Control Panel], and then click [Add a device].

- Double-click the connected camera icon.

- Driver installation will begin.

- After driver installation is complete, and the camera and computer connection is enabled, the AutoPlay screen will be displayed. Nothing will be displayed on the camera screen.
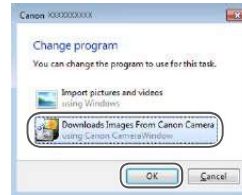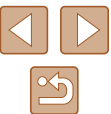
10 Display CameraWindow.

- Windows: Access CameraWindow by clicking [Downloads Images From Canon Camera].

- Mac OS: CameraWindow is automatically displayed when a Wi-Fi connection is established between the camera and computer.

11 Import images.

- Click [Import Images from Camera], and then click [Import Untransferred Images].

- Images are now saved to the Pictures folder on the computer, in separate folders named by date.

- Click [OK] in the screen that is displayed after image import is complete. For instructions on viewing images on a computer, refer to "Software Instruction Manual" (📖164).

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✎
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [⊕] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (☐30) ▶ [ʸ¹] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- A message is displayed if the nickname you enter begins with a symbol or space. Press the [⊕] button and enter a different nickname.
- When the camera is connected to a computer, the camera screen is blank.
- Mac OS: If CameraWindow is not displayed, click the [CameraWindow] icon in the Dock.
- To disconnect from the camera, turn off the camera.
- If you chose [PIN Method] in step 6, a PIN code will be displayed on the screen. Be sure to set this code in the access point. Choose a device in the [Select a Device] screen. For further details, refer to the user manual included with your access point.

■ **Connecting to Listed Access Points**

1 View the listed access points.

- View the listed networks (access points) as described in steps 1 – 4 of "Using WPS-Compatible Access Points" (☐130).
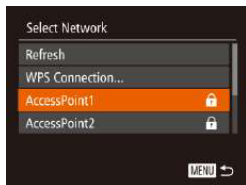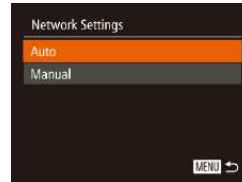
2 Choose an access point.

- Press the [▲][▼] buttons to choose a network (access point), and then press the [⊕] button.

3 Enter the access point password.

- Press the [⊕] button to access the keyboard, and then enter the password (☐31).
- Press the [▲][▼] buttons to choose [Next], and then press the [⊕] button.

4 Choose [Auto].

- Press the [▲][▼] buttons to choose [Auto], and then press the [⊕] button.
- To save images to a connected computer, follow the procedure from step 8 in "Using WPS-Compatible Access Points" (☐130).

✎
- To determine the access point password, check on the access point itself or refer to the user manual.
- Up to 16 access points will be displayed. If no access points are detected even after you choose [Refresh] in step 2 to update the list, choose [Manual Settings] in step 2 to complete access point settings manually. Follow on-screen instructions and enter an SSID, security settings, and a password.
- When you use an access point that you have already connected to for connecting to another device, [*] is displayed for the password in step 3. To use the same password, press the [▲][▼] buttons to choose [Next], and then press the [⊕] button.

■ **Previous Access Points**

You can reconnect to any previous access points automatically by following step 4 in "Using WPS-Compatible Access Points" (☐130).

- To reconnect to the access point, confirm that the target device is already connected to it, and then follow the procedure from step 8 in "Using WPS-Compatible Access Points" (☐130).
- To switch access points, choose [Switch Network] on the screen displayed after connection, and then either follow the procedure in "Using WPS-Compatible Access Points" (☐130) from step 5 or the procedure in "Connecting to Listed Access Points" (☐132) from step 2.

Sending Images to a Registered Web Service

Registering Web Services

Use a smartphone or computer to add to the camera Web services that you want to use.

- A smartphone or computer with a browser and Internet connection is required to complete camera settings for CANON iMAGE GATEWAY and other Web services.
- Check the CANON iMAGE GATEWAY website for details on browser (Microsoft Internet Explorer, etc.) requirements, including settings and version information.
- For information on countries and regions where CANON iMAGE GATEWAY is available, visit the Canon website (http://www.canon.com/cig/).
- You must have an account with Web services other than CANON iMAGE GATEWAY if you desire to use them. For further details, check the websites for each Web service you want to register.
- Separate ISP connection and access point fees may be applicable.

Registering CANON iMAGE GATEWAY

After linking the camera and CANON iMAGE GATEWAY, add CANON iMAGE GATEWAY as a destination Web service on the camera.
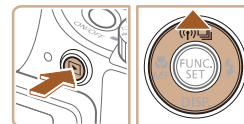
1 **Log in to CANON iMAGE GATEWAY and access the camera web link settings page.**

- From a computer or smartphone, access http://www.canon.com/cig/ to visit CANON iMAGE GATEWAY.
- Once the login screen is displayed, enter your user name and password to log in. If you do not have a CANON iMAGE GATEWAY account, follow the instructions to complete member registration (free of charge).
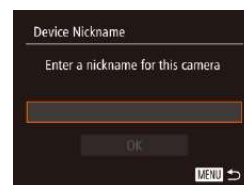
2 **Choose the type of camera.**

- On this camera model, [☁] is displayed in the Wi-Fi menu.
- Once you choose [☁], a page is displayed for entering the authentication code. On this page in step 7, you will enter the authentication code displayed on the camera after steps 3 – 6.

3 **Access the Wi-Fi menu.**

- Press the [▶] button to turn the camera on.
- Press the [▲] button.

- When the [Device Nickname] screen is displayed, press the [⊛] button. Use the keyboard displayed to enter a nickname (=31). On the [Device Nickname] screen, press the [▲][▼] buttons to choose [OK], and then press the [⊛] button.
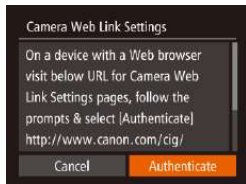
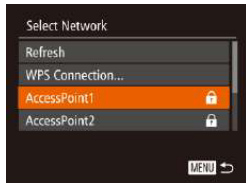Device Nickname
Enter a nickname for this camera

OK
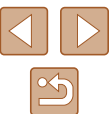
MENU ↩

4 Choose [ ].

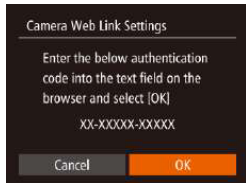- Press the [▲][▼][◀][▶] buttons to choose [ ], and then press the [ ] button.

5 Choose [Authenticate].

- Press the [◀][▶] buttons to choose [Authenticate], and then press the [ ] button.

6 Establish a connection with an access point.

- Connect to the access point as described in steps 5 – 7 in "Using WPS-Compatible Access Points" (📖130) or in steps 2 – 4 in "Connecting to Listed Access Points" (📖132).
- Once the camera is connected to CANON iMAGE GATEWAY via the access point, an authentication code is displayed.

7 Enter the authentication code.

- On the smartphone or computer, enter the authentication code displayed on the camera and go to the next step.
- A six-digit confirmation number is displayed.
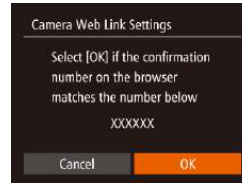
8 Check the confirmation numbers and complete the setup process.

- Make sure the confirmation number on the camera matches the number on the smartphone or computer.
- Press the [◀][▶] buttons to choose [OK], and then press the [ ] button.
- Complete the setup process on the smartphone or computer.

- [ ] (📖139) and CANON iMAGE GATEWAY are now added as destinations, and the [ ] icon changes to [ ].
- A message is displayed on the smartphone or computer to indicate that this process is finished. To add other Web services, follow the procedure in "Registering Other Web Services" (📖135) from step 2.

- Connections require that a memory card with saved images be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the menu. Press the [◀][▶] buttons to access the device selection screen and choose a device.
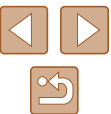
■ Registering Other Web Services

You can also add Web services besides CANON iMAGE GATEWAY to the camera. Note that CANON iMAGE GATEWAY must be registered on the camera first (📖133).
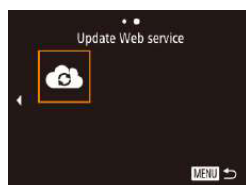
1 Access the Web service settings screen.

● Follow step 1 in "Registering CANON iMAGE GATEWAY" (📖133) to log in to CANON iMAGE GATEWAY, and then access the Web service settings screen.

2 Configure the Web service you want to use.

● Follow the instructions displayed on the smartphone or computer to set up the Web service.

3 Choose [🗺].

● In Playback mode, press the [▲] button to access the Wi-Fi menu.

● Press the [▲][▼][◀][▶] buttons to choose [🗺], and then press the [🇼] button.

● The Web service settings are now updated.

> ● If any configured settings change, follow these steps again to update the camera settings.

Uploading Images to Web Services
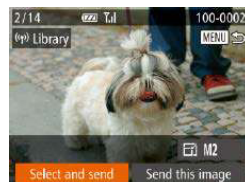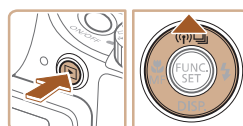
1 Access the Wi-Fi menu.

● Press the [▶] button to turn the camera on.

● Press the [▲] button.

2 Choose the destination.

● Press the [▲][▼] buttons to choose the icon of the Web service for sharing, and then press the [🇼] button.

● If multiple recipients or sharing options are used with a Web service, choose the desired item on the [Select Recipient] screen by pressing the [▲][▼] buttons, and then press the [🇼] button.

3 Send images.

● Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [🇼] button.

● Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [🇼] button to mark it as selected ([✓]), and then press the [MENU] button.

● Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [🇼] button.

● When uploading to YouTube, read the terms of service, choose [I Agree], and press the [🇼] button.

● Image transfer will begin. The screen darkens during image transfer.

● After the images are sent, [OK] is displayed. Press the [🇼] button to return to the playback screen.

> ● Connections require that a memory card with saved images be in the camera.
> ● You can also send multiple images at once and resize images or add comments before sending (138).
> ● You can send the current image by choosing [Send this image] on the screen in step 3.

Printing Images Wirelessly from a Connected Printer

Connect the camera to a printer via Wi-Fi to print as follows.
These steps show how to use the camera as an access point, but you can also use an existing access point (136).
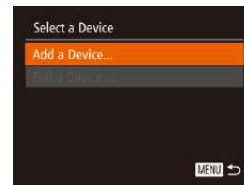
1 Access the Wi-Fi menu.

● Access the Wi-Fi menu as described in step 2 in "Adding a Smartphone Using the Wi-Fi Menu" (125).

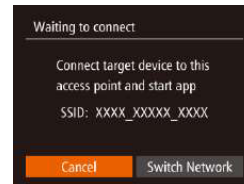### 2 Choose [ ].

● Press the [▲][▼][◄][►] buttons to choose [ ], and then press the [ ] button.

3 Choose [Add a Device].

● Press the [▲][▼] buttons to choose [Add a Device], and then press the [ ] button.
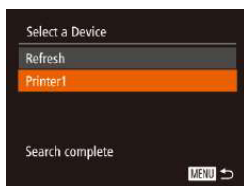
● The camera's SSID is displayed.

4 Connect the printer to the network.

- In the printer's Wi-Fi setting menu, choose the SSID (network name) displayed on the camera to establish a connection.

5 Choose the printer.

- Press the [▲][▼] buttons to choose the printer name, and then press the [⊛] button.

6 Choose an image to print.

- Press the [◀][▶] buttons to choose an image.
- Press the [▲][▼] buttons to choose [Print], and then press the [⊛] button.
- For detailed printing instructions, see "Printing Images" (□166).
- To cancel the connection, press the [▲] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [⊛] button.

- Connections require that a memory card with saved images be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [⊛] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (□30) ▶ [⌂] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- To use another access point, follow steps 3 – 4 in "Using Another Access Point" (□126).

Sending Images to Another Camera

Connect two cameras via Wi-Fi and send images between them as follows.

- Only Canon-brand cameras equipped with a Wi-Fi function can be connected to wirelessly. Even Canon-brand cameras that support Eye-Fi cards cannot be connected to if they do not have a Wi-Fi function. You cannot connect to PowerShot SD430 DIGITAL ELPH WIRELESS/ DIGITAL IXUS WIRELESS cameras with this camera.

1 Access the Wi-Fi menu.

- Access the Wi-Fi menu as described in step 2 in "Adding a Smartphone Using the Wi-Fi Menu" (□125).

2 Choose [▢].

- Press the [▲][▼][◀][▶] buttons to choose [▢], and then press the [⊛] button.

3 Choose [Add a Device].

- Press the [▲][▼] buttons to choose [Add a Device], and then press the [⊛] button.
- Follow steps 1 – 3 on the target camera too.
- Camera connection information will be added when [Start connection on target camera] is displayed on both camera screens.

4 **Send images.**

- Press the [▲][▼][◀][▶] buttons to choose [Select and send], and then press the [⬜] button.
- Press the [▲][▼][◀][▶] buttons to choose an image to send, press the [⬜] button to mark it as selected ([✓]), and then press the [MENU] button.
- Press the [▲][▼][◀][▶] buttons to choose [Send], and then press the [⬜] button.
- Image transfer will begin. The screen darkens during image transfer.
- [Transfer completed] is displayed after the image is sent, and the image transfer screen is displayed again.
- To cancel the connection, press the [MENU] button, press the [◀][▶] buttons on the confirmation screen to choose [OK], and then press the [⬜] button.

- Connections require that a memory card be in the camera.
- Once you have connected to devices via the Wi-Fi menu, recent destinations will be listed first when you access the Wi-Fi menu. You can easily connect again by pressing the [▲][▼] buttons to choose the device and then pressing the [⬜] button. To add a new device, display the device selection screen by pressing the [◀][▶] buttons, and then configure the setting.
- If you prefer not to display recent target devices, choose MENU (🔲30) ▶ [📳] tab ▶ [Wi-Fi Settings] ▶ [Target History] ▶ [Off].
- You can also send multiple images at once and change the image size before sending (🔲138).
- You can send the current image by choosing [Send this image] on the screen in step 4.

Image Sending Options

You can choose multiple images to send at once and change the image resolution (size) before sending. Some Web services also enable you to annotate the images you send.

Notes on Sending Images

- Keep your fingers or other objects off the Wi-Fi antenna area (🔲3). Covering this may decrease the speed of your image transfers.
- Depending on the condition of the network you are using, it may take a long time to send movies. Be sure to keep an eye on the camera battery level.
- Up to 50 images can be sent together at once. One movie up to five minutes (or one digest movie up to 13 minutes) can be sent. However, Web services may limit the number of images or length of movies you can send. For details, refer to the Web service you are using.
- For movies that you do not compress (🔲121), a separate, compressed file is sent instead of the original file. Note that this may delay transmission, and the file cannot be sent unless there is enough space for it on the memory card.
- When sending movies to smartphones, note that the supported image quality varies depending on the smartphone. For details, refer to the smartphone user manual.
- On the screen, wireless signal strength is indicated by the following icons.
[Yıl] high, [Yıl] medium, [Yı] low, [Y] weak
- Sending images to Web services will take less time when resending images you have already sent that are still on the CANON iMAGE GATEWAY server.

Choosing the Image Resolution (Size)

On the image transfer screen, choose [⬚] by pressing the [▲][▼] buttons, and then press the [⬛] button. On the screen displayed, choose the resolution by pressing the [▲][▼] buttons, and then press the [⬛] button.

- To send images at original size, select [No] as the resizing option.
- Choosing [M2] or [S] will resize images that are larger than the selected size before sending.
- Movies cannot be resized.

📝 ● Image size can also be configured in MENU (□30) ▶ [⚙️] tab ▶ [Wi-Fi Settings] ▶ [Resize for Sending].

Adding Comments

Using the camera, you can add comments to images that you send to e-mail addresses, social networking services, etc. The number of characters and symbols that can be entered may differ depending on the Web service.
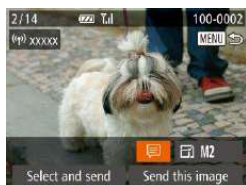
1 Access the screen for adding comments.

- On the image transfer screen, choose [💬] by pressing the [▲][▼][◀][▶] buttons, and then press the [⬛] button.

2 Add a comment (□31).

3 Send the image.

📝 ● When a comment is not entered, the comment set in CANON iMAGE GATEWAY is automatically sent.
● You can also annotate multiple images before sending them. The same comment is added to all images sent together.

Sending Images Automatically (Image Sync)

Images on the memory card that have not been transferred already can be sent to a computer or Web services via CANON iMAGE GATEWAY. Note that images cannot be sent only to Web services.

Initial Preparations

Preparing the Camera

Register [☁️] as the destination. You can also assign [☁️] to the [□] button, so that you can simply press the [□] button to send any unsent images on the memory card to a computer via CANON iMAGE GATEWAY.

1 Add [☁️] as a destination.

- Add [☁️] as a destination, as described in "Registering CANON iMAGE GATEWAY" (□133).
- To choose a Web service as the destination, follow the steps in "Registering Other Web Services" (□135) to update the camera settings.

2 Choose the type of images to send (only when sending movies with images).

- Press the [MENU] button and choose [Wi-Fi Settings] on the [⚙️] tab (□30).
- Press the [▲][▼] buttons to choose [Image Sync], and then press the [◀][▶] buttons to choose [Stills/Movies].

3 **Assign [⬚] to the [⬚] button (only when sending images by pressing the [⬚] button).**

- Clear the [⬚] button setting if a smartphone is already assigned to the button (&123).
- Access the mobile connection screen as described in step 2 in "Sending to a Smartphone Assigned to the Button" (&123), press the [◀][▶] buttons to choose [⬚], and then press the [⬚] button.

◼ Preparing the Computer

Install and configure the software on the destination computer.

1 **Install the software.**

- Install the software on a computer connected to the Internet (&127).

2 **Register the camera.**

- Windows: In the taskbar, right-click [⬚], and then click [Add new camera].
- Mac OS: In the menu bar, click [⬚], and then click [Add new camera].
- A list of cameras linked to CANON iMAGE GATEWAY is displayed. Choose the camera from which images are to be sent.
- Once the camera is registered and the computer is ready to receive images, the icon changes to [⬚].

Sending Images

Images sent from the camera are automatically saved to the computer. If the computer that you intend to send images to is turned off, the images will be stored temporarily on the CANON iMAGE GATEWAY server. Stored images are regularly erased, so make sure to turn on the computer and save the images.

1 **Send images.**

- If you have already assigned [⬚] to the [⬚] button, press the [⬚] button.
- If you have not assigned the button this way, choose [⬚] as described in steps 1 – 2 in "Uploading Images to Web Services" (&135).
- Once the connection is established, the images are sent. When the images have been sent successfully to the CANON iMAGE GATEWAY server, [⬚] is displayed on the screen.

2 **Save the images to the computer.**

- Images are automatically saved to the computer when you turn it on.
- Images are automatically sent to Web services from the CANON iMAGE GATEWAY server, even if the computer is off.

> ⚠ ● When sending images, you should use a fully charged battery pack or an AC adapter kit (sold separately, &155).
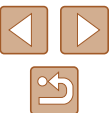
✎ ● Even if images were imported to the computer through a different method, any images not sent to the computer via CANON iMAGE GATEWAY will be sent to the computer.
● Sending is faster when the destination is a computer on the same network as the camera, because images are sent via the access point instead of CANON iMAGE GATEWAY. Note that images stored on the computer are sent to CANON iMAGE GATEWAY, so the computer must be connected to the Internet.

Using a Smartphone to View Camera Images and Control the Camera

You can do the following with the dedicated smartphone app CameraWindow.

● Browse images on the camera and save them to the smartphone
● Geotag images on the camera (□141)
● Shoot remotely (□142)

⚠ ● In camera settings, the smartphone must be allowed to view camera images (□123, □125, □143).

Geotagging Images on the Camera

GPS data recorded on a smartphone using the dedicated CameraWindow application can be added to images on the camera. Images are tagged with information including the latitude, longitude, and elevation.

⚠ ● Before shooting, make sure the date and time and your home time zone are set correctly, as described in "Setting the Date and Time" (□20). Also follow the steps in "World Clock" (□146) to specify any shooting destinations in other time zones.
● Others may be able to locate or identify you by using location data in your geotagged still images or movies. Be careful when sharing these images with others, as when posting images online where many others can view them.

Shooting Remotely

As you check a shooting screen on your smartphone, you can use it to shoot remotely.

1 Secure the camera.

- Once remote shooting begins, the camera lens will come out. Lens motion from zooming may also move the camera out of position. Keep the camera still by mounting it on a tripod or taking other measures.

2 Connect the camera and smartphone (📖123, 📖125).

- In the privacy settings, choose [Yes].

3 Choose remote shooting.

- In CameraWindow on the smartphone, choose remote shooting.
- The camera lens will come out. Do not press near the lens, and make sure no objects will obstruct it.
- Once the camera is ready for remote shooting, a live image from the camera will be displayed on the smartphone.
- At this time, a message is displayed on the camera, and all operations except pressing the power button are disabled.

4 Shoot.

- Use the smartphone to shoot.

- The camera works in [**P**] mode during remote shooting. However, some FUNC. and MENU settings you have configured in advance may be changed automatically.
- Movie shooting is not available.

- Any jerky subject motion shown on the smartphone due to the connection environment will not affect recorded images.
- No AF frames are displayed. Capture a test image to check the focus.
- Captured images are not transferred to the smartphone. Use the smartphone to browse and import images from the camera.
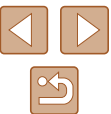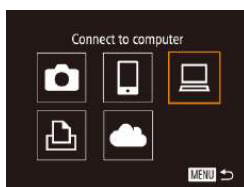
Editing or Erasing Wi-Fi Settings

Edit or erase Wi-Fi settings as follows.

Editing Connection Information

1 Access the Wi-Fi menu and choose the device to edit.

● Press the [▶] button to turn the camera on.
● Press the [▲] button.
● Press the [◀][▶] buttons to access the device selection screen, press the [▲][▼][◀][▶] buttons to choose the icon of a device to edit, and then press the [∘] button.

2 Choose [Edit a Device].

● Press the [▲][▼] buttons to choose [Edit a Device], and then press the [∘] button.

3 Choose a device to edit.

● Press the [▲][▼] buttons to choose the device to edit, and then press the [∘] button.

4 Choose an item to edit.

● Press the [▲][▼] buttons to choose an item to edit, and then press the [∘] button.
● The items you can change depend on what device or service the camera will access.

Configurable Items	Connection				
	📷	📱	💻	🖨	Web Services
[Change Device Nickname] (📖143)	O	O	O	O	–
[View Settings] (📖125)	–	O	–	–	–
[Erase Connection Info] (📖143)	O	O	O	O	–

O : Configurable   – : Not configurable

Changing a Device Nickname

You can change the device nickname (display name) that is displayed on the camera.
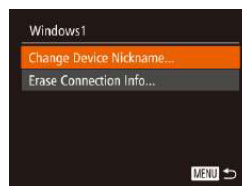
● Following step 4 in "Editing Connection Information" (📖143), choose [Change Device Nickname] and press the [∘] button.
● Select the input field and press the [∘] button. Use the keyboard displayed to enter a new nickname (📖31).

Erasing Connection Information

Erase connection information (information about devices that you have connected to) as follows.
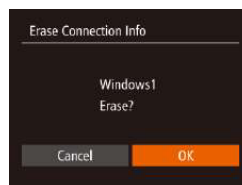
● Following step 4 in "Editing Connection Information" (📖143), choose [Erase Connection Info] and press the [∘] button.
● After [Erase?] is displayed, press the [◀][▶] buttons to choose [OK], and then press the [∘] button.
● The connection information will be erased.

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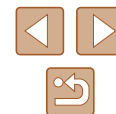
Returning the Wi-Fi Settings to Default

Return the Wi-Fi settings to default if you transfer ownership of the camera to another person, or dispose of it.
Resetting the Wi-Fi settings will also clear all Web service settings. Be sure that you want to reset all Wi-Fi settings before using this option.

1 Choose [Wi-Fi Settings].

● Press the [MENU] button and choose [Wi-Fi Settings] on the [ ] tab (□30).
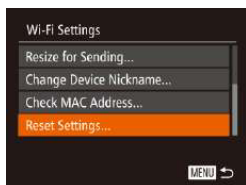
2 Choose [Reset Settings].

● Press the [▲][▼] buttons to choose [Reset Settings], and then press the [ ] button.

3 Restore the default settings.

● Press the [◀][▶] buttons to choose [OK], and then press the [ ] button.

● The Wi-Fi settings are now reset.

● To reset other settings (aside from Wi-Fi) to defaults, choose [Reset All] on the [ ] tab (□152).