About the Wi-Fi connection lamp

- **Wi-Fi connection lamp**
  - Lit blue: The Wi-Fi connection is on standby. Blinking blue: Sending/receiving data through the Wi-Fi connection.

We strongly recommend that you set an encryption to maintain information security.

- When sending images on a mobile network, high packet communication fees may be incurred depending on the details of your contract.
- Do not remove the memory card or battery or move to an area without any reception while sending images.
- Wi-Fi®, Wi-Fi Protected Setup®, Wi-Fi Direct®, WPA® and WPA2® are trademarks or registered trademarks of the Wi-Fi Alliance.

Electronic waves from the camera can affect instruments and meters. In airplane cabins or in other restricted areas, set [Airplane Mode] to [ON].

Press [Wi-Fi] button
Camera
Smartphone/tablet
Connect to Wi-Fi
Wireless access point
Compatible devices, etc., on network
Wi-Fi-compatible device

Preparation:
- May be required to configure settings on applicable devices depending on the connecting device or WEB service.
- Operating this unit
- Press the [Wi-Fi] button
- Start up “Image App” on your smartphone/tablet
- Place your smartphone/tablet to the side of this unit
- Press [Wi-Fi Setup] to select [New Connection] and press [MENU/SET]
- Place your smartphone/tablet over this area of the camera
- Press [Wi-Fi] button
- Start up “Image App” on your smartphone/tablet
- Place your smartphone/tablet to the side of this unit
- Press [Wi-Fi Setup] to select [New Connection] and press [MENU/SET]
- Place your smartphone/tablet over this area of the camera
- Press [Wi-Fi] button

Sequence of connecting operation

The operation to connect this unit to other devices by Wi-Fi differs by function, connection method, etc. Perform operation by following the screen display and refer to the manual, etc. for the connecting device or WEB service.

Preparation:
- You may be required to configure settings on applicable devices depending on the connecting device or WEB service.

1. Press [Wi-Fi] button

2. Press ▲ ▼ ▶ to select [Remote Shooting] and press [MENU/SET]

   [New Connection]: Configure settings for a new Wi-Fi connection with Wi-Fi compatible devices or WEB services. ([Remote Shooting] / [Playback on TV] / [Send Images While Recording] / [Send Images Stored in the Camera])

   [Favorite Connection]: Connect to compatible devices or WEB services using the same setting as before when connecting with Wi-Fi.

   [Wi-Fi Setup]: Configure various Wi-Fi settings.

3. Connect to Wi-Fi

   Operating this unit
   Press the [Wi-Fi] button
   Place your smartphone/tablet over this area of the camera
   Press [Wi-Fi Setup] to select [Remote Shooting] and press [MENU/SET]

   Place your smartphone/tablet over this area of the camera
   Press the [Wi-Fi] button
   Place your smartphone/tablet over this area of the camera
   Press the [Wi-Fi] button

Recording/viewing pictures with a smartphone/tablet [Remote Shooting]

This section describes how to make a Wi-Fi connection between this unit and a smartphone/tablet to record pictures using the smartphone/tablet and to transfer pictures to the smartphone/tablet.

Installing “Panasonic Image App”
The “Panasonic Image App” is an application provided by Panasonic that allows your smartphone/tablet to perform the following operations of a Wi-Fi-compatible LUMIX. (“Panasonic Image App” is indicated as “Image App” in the text.)

- **Version**
  - 1.2 or above

- **Supported OS**
  - Android 2.2 - Android 4.2
  - iOS 4.3 - iOS 6.0

- **Installation procedure**
  - Connect your smartphone/tablet to the Internet and please install “Panasonic Image App” from the following site.
    - Google Play™ Store (for Android)
    - App Store™ (for iOS)

  - The service may not be able to be used properly depending on the type of smartphone/tablet being used. For compatible devices, see the following support site.

- Place over this area (5 cm (0.2 in) or more)
  - Do not bump your smartphone/tablet strongly against this unit.
  - The SSID displayed differs depending on the connection method.
  - You can also select it by touch operations.

- Place your smartphone/tablet over this area of the camera
  - When the connection is complete, live images captured by the camera will be displayed on your smartphone/tablet.
  - You can remotely operate the camera using a smartphone/tablet. You need to install “Image App” on your smartphone/tablet.
  - This section describes how to make a Wi-Fi connection between this unit and a smartphone/tablet to record pictures using the smartphone/tablet and to transfer pictures to the smartphone/tablet.

- Place your smartphone/tablet over this area of the camera
  - When the connection is complete, live images captured by the camera will be displayed on your smartphone/tablet.

- Place your smartphone/tablet over this area of the camera
  - When the connection is complete, live images captured by the camera will be displayed on your smartphone/tablet.

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  - When the connection is complete, live images captured by the camera will be displayed on your smartphone/tablet.

For details, refer to “Operating Instructions for advanced features.”
Connecting via a wireless access point / Connecting directly

Press ▲▼ to select connection method, and then press [MENU/SET]

<table>
<thead>
<tr>
<th>Connection method</th>
<th>[Via Network]</th>
<th>[Direct]</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Wi-Fi Direct]†*</td>
<td>![Wi-Fi Direct] Icon</td>
<td>![Select Wi-Fi Direct] Icon</td>
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<tr>
<td>[WPS (Push-Button)]</td>
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<td>[WPS (PIN code)]</td>
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</table>

1. Set the device to Wi-Fi Direct mode
2. Press ▲▼ to select [Wi-Fi Direct] and press [MENU/SET]
3. Press ▲▼ to select the device to connect to, and then press [MENU/SET]

†: Press [Wi-Fi] button

When sending images to PC

You can select and send recorded images. Prepare folders for receiving images on the PC before sending a picture to the PC.

1. To create a folder that receives images
   - Create a PC user account (account name up to 254 characters) and password (up to 32 characters) consisting of alphanumeric characters. An attempt to create a receive folder may fail if the account includes non-alphanumeric characters.

   When using "PHOTOfunSTUDIO"

   1. Install "PHOTOfunSTUDIO" to the PC
   2. Install "PHOTOfunSTUDIO" to the PC
   3. Create a folder that receives images with "PHOTOfunSTUDIO"
      - To create the folder automatically, select [Auto-create]. To specify a folder, create a new folder, or set a password to the folder, select [Create manually].
   4. For details, refer to the operating instructions of "PHOTOfunSTUDIO" (PDF)

   When not using "PHOTOfunSTUDIO"

   1. Enable sharing of the folder used for receiving data
      - For details, refer to the operating instructions of your PC or Help on the operating system.

2. Connecting to your PC

   1. Turn the computer on.
   2. If the standard settings are changed for the workgroup on the connected PC, you must change settings in [PC Connection] on this unit.

   Press [Wi-Fi] button

   1. Press ▲▼ to select [New Connection] and press [MENU/SET]
      - You can also select it by touch operations.
   2. Press ▲▼ to select [Playback on TV] and press [MENU/SET]
   3. Press ▲▼ to select connection method, and then press [MENU/SET]
   4. Press ▲▼ to select a device you want to connect, and then press [MENU/SET]
   5. Take or play back pictures on this unit

   1. To create a folder that receives images
   2. To select connection method, and then press [MENU/SET]

Playback on TV

You can use the Wi-Fi function [Playback on TV] to display pictures on a television that is compatible with a DLNA certified digital media renderer (DMR).

Preparations: Set the TV to DLNA waiting Mode.

1. Press [Wi-Fi] button
2. Press ▲▼ to select [New Connection] and press [MENU/SET]
3. Press ▲▼ to select [Playback on TV] and press [MENU/SET]
4. Press ▲▼ to select connection method, and then press [MENU/SET]
5. Press ▲▼ to select the folder you want to send, and then press [MENU/SET]
6. Take or play back pictures on this unit

   • DLNA, the DLNA Logo and DLNA CERTIFIED are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

Using the map data on the disc (supplied)

You can use "LUMIX Map Tool" to copy the map data on the disc (supplied) to a memory card. When the map data is copied to the memory card, detailed maps can be displayed on the camera.

Installing “LUMIX Map Tool”

1. Operating environment
   - Windows®: XP (32-bit) SP3
   - Windows®: Vista (32-bit/64-bit) SP2
   - Windows®: 7 (32-bit/64-bit)
   - Mac® OS X v10.4, v10.5, v10.6, v10.7, and v10.8
2. Windows®
   - Insert the disc
   - Click [Applications]
   - Click [Recommended Installation] or [LUMIX Map Tool]
   - Continue the installation procedure following the instructions displayed on the screen.
3. Mac®
   - Insert the disc
   - Double-click the recognised disc to open
   - Double-click the [Applications] folder to open
   - Double-click [LUMIX_Map_Tool] to open
   - Continue the installation procedure following the instructions displayed on the screen.

Copying detailed maps to a memory card

Since the map data size is large, be sure to check the free space on the memory card before copying the data. (A memory card at least 8 GB is needed to copy the map data for all the regions.)

When a memory card is formatted (initialised), all data, including the map data, is deleted.

Preparation: Insert the supplied disc in your computer drive before starting the copying procedure.

Instructions: Insert the memory card into a card reader/CF (commercially available)

1. Click "LUMIX Map Tool" installed in your computer Windows®
   - Click [Start] → [All Programs] → [Panasonic] → [LUMIX Map Tool] → [LUMIX Map Tool]
   - Mac®
   - Double-click [LUMIX_Map_Tool] in [Applications] (Applications)
   - Select a card from the pull-down menu
   - Click [Execute]

   Perform the rest of the steps in accordance with the instructions displayed on the computer screen.

If copying is finished, click [Close] and remove the memory card from the computer.