

# Stand-alone SD Memory Card Recording Guide

## Network Camera

**Panasonic Network Camera Website:** <http://panasonic.net/pcc/ipcam/>  
• This document can be found on the included CD-ROM. English, French, German, Italian, Spanish, Russian, Simplified Chinese, Korean, Danish and Swedish versions are included.  
**Please read the included Important Information and Installation Guide before following the procedures in this document.**

### Abbreviations

- The Network Camera is referred to as “the camera” in this document.
- The Setup CD-ROM is referred to as “the CD-ROM” in this document.
- The term “SD memory card” is used in this document to refer to SD memory cards and SDHC memory cards.

### Trademarks

- SDHC Logo is a trademark.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- All other trademarks identified herein are the property of their respective owners.

### Description

You can record camera images to an SD memory card without connecting the camera to a network and without configuring the camera using a PC. 6 pre-programmed image recording triggers are available, allowing you to choose the conditions during which images will be recorded. You can view recorded images by removing the SD memory card from the camera and accessing it with a PC. In order to adjust the camera’s pan, tilt, zoom, etc., you must access the camera with a PC.

**Note**

- For information on camera software and model requirements for using this feature, see the Panasonic Network Camera support site (<http://panasonic.net/pcc/support/netwkcaml/support/info.html>).
- If the camera supports audio features, audio can be recorded when recording MPEG-4 images.
- To pan or tilt the camera lens, configure the camera for ceiling installation, or otherwise change camera settings, you must access the camera with a PC. See the Setup Guide and Operating Instructions for connection and operation information.

### Preparation

**SD Memory Card**

In order to use this feature, the SD memory card must be either:

- A card that has been used to record camera images before
- A card that has been formatted with the SD Memory Card Formatting Software (<http://panasonic.net/pcc/support/netwkcaml/support/info.html>).

**Playback Software**

To view recorded JPEG images on a PC, Network Camera SD Viewer must be installed on the PC. This software can be found on the included CD-ROM, and can be installed by following the instructions in the “Read Me” file (CD-ROM Drive:\NCV\SDVIEWER\_README.txt). You can also download this software from the Panasonic Network Camera website (<http://panasonic.net/pcc/support/netwkcaml/support/info.html>). To view recorded MPEG-4 files, Windows Media® Player and the G.726 audio codec (for cameras with audio features) must be installed on the PC.

**Note**

- See the Panasonic Network Camera website (<http://panasonic.net/pcc/support/netwkcaml/support/info.html>) for information on the G.726 audio codec.

**Image Confirmation During Installation**

To confirm the camera image while installing the camera, connect an external video device, such as a TV, to the camera. Refer to the Installation Guide for more information.

### Setup

Follow the procedure below to configure the camera to record images. Refer to the included Installation Guide for button location.

1

Disconnect the LAN cable from the camera, remove the SD memory card, then turn the camera on

If the camera is not in the factory default state, press and hold the FACTORY DEFAULT RESET button for about 1 second. It takes about 1 minute for the camera to be reset.

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Refer to the table below and press the FUNCTION button to select the desired recording trigger

The selected recording trigger (1 to 6) corresponds to the number of times the FUNCTION button is pressed. The selected trigger repeats if the button is pressed more than 6 times (e.g., pressing the button 8 times selects trigger number 2).

**Note**

- If the FUNCTION button is not pressed within 90 seconds of turning the camera on, the trigger cannot be selected and you must repeat from step 1.

Trigger No./ No. of Times FUNCTION is Pressed	FUNCTION Button Indicator	Camera Indicator	Parameters	Approx. Recording Capacity (2 GB SD Memory Card)
1	Flashing green	Orange	Timer, JPEG, buffer 2 images every 1 second	15.3 hours
2	Green	Orange	Timer, JPEG, buffer 1 image every 1 second	30.6 hours
3	Off	Orange	Timer, MPEG-4	9 hours
4	Green	Green	Motion detection, JPEG Pre-trigger: buffer 5 images every 1 second, total of 20 images Post-trigger: buffer 5 images every 1 second, total of 50 images	6.1 hours
5	Off	Green	Motion detection, MPEG-4, buffer 10 seconds after detection	9 hours
6	Green	Flashing green	Trigger no. 2 and 4 are both active	Trigger No.2: 15.3 hours Trigger No.4: 3.1 hours

**Note**

- The images recorded using this feature are recorded at 320×240 resolution, standard quality, and new images overwrite old images when the card is full.
- When recording images in MPEG-4 format, recording capacity varies depending on the environment and object.

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Insert the SD memory card

The FUNCTION indicator turns green and the camera is ready to record when the SD memory card is inserted.

While recording, the camera indicator lights orange or flashes orange.

If the camera indicator lights red, images cannot be recorded. In this case, confirm the following.

- The SD memory card is not write-protected
- The SD memory card has been formatted using the camera or the SD Memory Card Formatting Software

If the camera indicator still lights red, the SD memory card may be damaged.

**Note**

- If the SD memory card is not inserted within 20 minutes of selecting the desired trigger, this feature will not be activated. Repeat from step 1.
- When the SD memory card is inserted while using this feature, the camera’s analog video output is enabled.



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Install the camera by referring to the Installation Guide

To view images from the camera image while installing the camera (i.e., to confirm that the camera lens is aimed in the desired direction), connect an external video device, such as a TV, to the camera. Refer to the Installation Guide for more information.

You may also connect the camera to a network and configure the camera or view images using a PC. Refer to the Setup Guide for more information.

**Note**

- When mounting a BB-HCM580 or BB-HCM581 on a ceiling, you must configure the camera to be accessed by a PC, then access the camera and change the mounting type setting; otherwise images will be displayed upside down.
- To ensure that the desired camera settings (pan, tilt, white balance, etc.) are used for recording, we recommend accessing the camera with a PC, adjusting the settings as desired, and saving the new settings as the home position.

- Note**
- The trigger selected for use with this feature is assigned as trigger number 1 or 2 of the camera’s image buffer/transfer feature.
  - To change the selected trigger after inserting the SD memory card, press the FUNCTION button to stop recording, confirm that the FUNCTION indicator is not lit, and then remove the card. Reset the camera and repeat from step 1.
  - See the Installation Guide for information on connecting external microphones.

## Confirming and Viewing Recorded Images

