

Color CCTV Cameras Operating Instructions

Model No. **WV-CW474AF**
WV-CW474AS

Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

N0204-1034 3TR002376BAA Printed in Japan

Caution:

Before attempting to connect or operate this product, please read the marking on the top.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To prevent fire or electric shock hazard, do not expose this appliance to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

PREFACE

Panasonic's WV-CW474AF/CW474AS series color digital camera introduces a new level of high picture quality and high resolution through the use of a 1/3-inch interline transfer CCD image sensor having 768 horizontal pixels (picture elements), and digital signal processing LSIs. This model offers cutting-edge technology for advanced video surveillance.

PRECAUTIONS

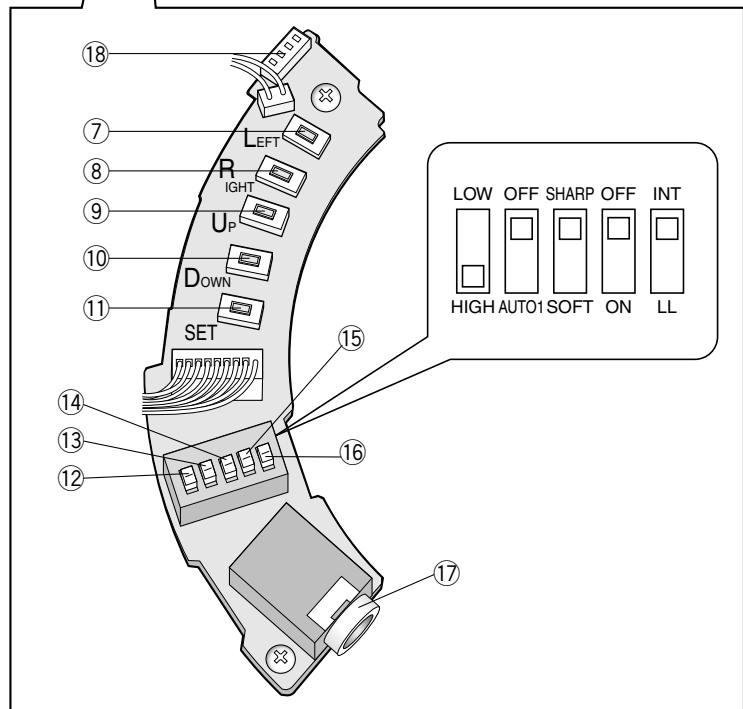
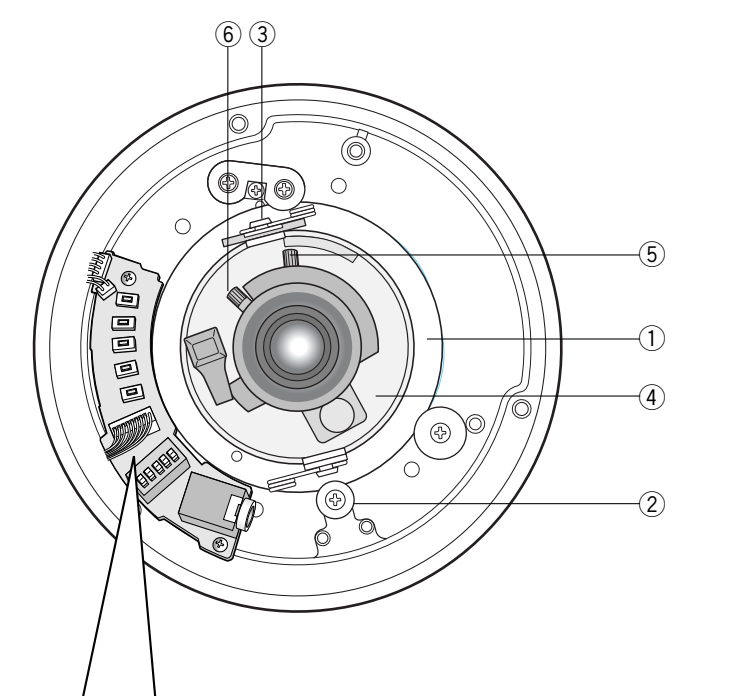
- Do not attempt to disassemble the camera.**
To prevent electric shock, do not remove screws or covers. There are no user-serviceable parts inside. Ask qualified service personnel for servicing.
- Handle the camera with care.**
Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.
- The installation should be made by qualified service personnel or system installers.**
- Do not use strong or abrasive detergents when cleaning the camera body.**
Use a dry cloth to clean the camera when dirty. When the dirt is hard to remove, use a mild detergent and wipe gently. Then wipe off the remaining detergent with a dry cloth.
- Clean the lens with care.**
Do not clean the lens with strong or abrasive detergents. Use lens tissue or a cotton tipped applicator and ethanol.
- Never face the camera towards the sun.**
Do not aim the camera at bright objects. Whether the camera is in use or not, never aim it at the sun or other extremely bright objects. Otherwise, blooming or smear may be caused.
- Do not operate the camera beyond the specified temperature, humidity or power source ratings.**
Use the camera at temperatures within -10 °C to +50 °C (14 °F - 122 °F), and humidity below 90 %. The input power source is 24 V AC or 12 V DC.
- Turn the circuit breaker off which supplies the camera with the power when abnormal conditions are encountered.**

Caution:
To prevent fire or electric shock hazard, use a UL listed cable (VV-1, style 1007) for the 24 V AC Input Cable.

FEATURES

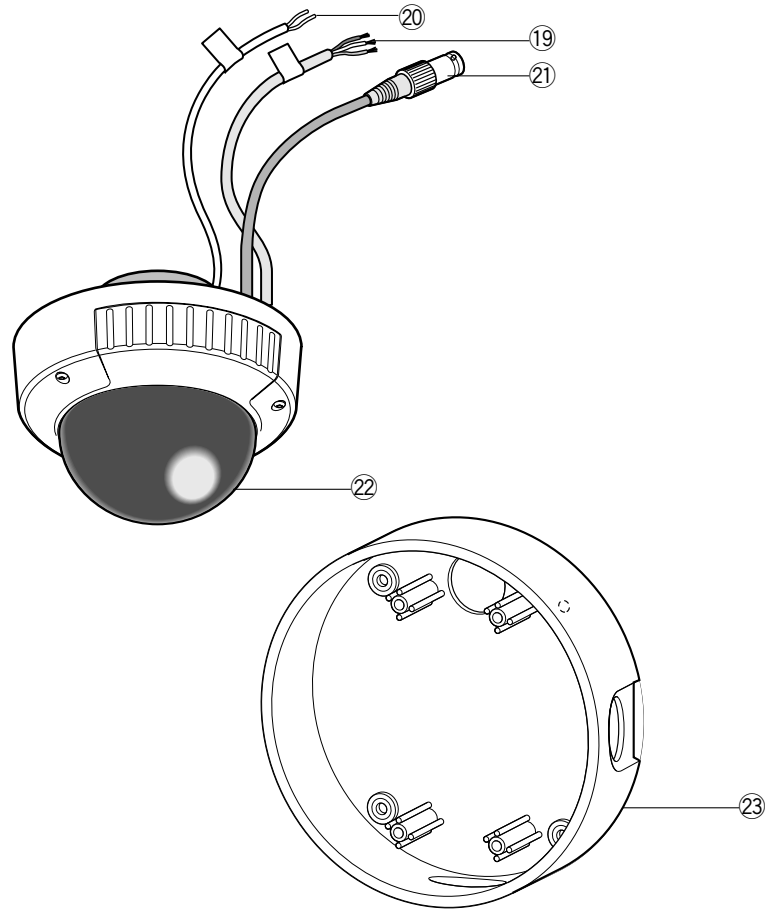
- The following functions are built in.
 - Auto Light Control (ALC)
 - The SUPER-D II function eliminates interference by strong background lighting which makes the camera picture dark, such as a spotlight. Dynamic range of 46 dB (Typ)
 - Internal, Line-Locked, Multiplexed Vertical Drive (VD2) Sync
 - Auto/Manual White Balance Function
 - Electronic Shutter Function
- Signal-to-noise ratio of 50 dB (Equivalent to AGC Off)
- Minimum illumination of 2.0 lx (0.20 footcandle) (WIDE) (Color mode)
Minimum illumination of 0.2 lx (0.02 footcandle) (WIDE) (Black-and-white mode)
Minimum illumination of 0.8 lx (0.08 footcandle) (WIDE) with the WV-CW2C optional dome cover (Color mode)
Minimum illumination of 0.1 lx (0.01 footcandle) (WIDE) with the WV-CW2C optional dome cover (Black-and-white)
- 480 lines of horizontal resolution (Color normal mode)
510 lines of horizontal resolution (Color High Resolution mode)
570 lines of horizontal resolution (Black-and-white mode)
- High quality picture:
 - 2H type vertical enhancer for greater picture sharpness
 - Chroma averaging circuit for better color signal-to-noise ratio
 - Minimum of aliasing on fine objects
 - Expanded dynamic range by use of knee circuit
 - Highlight aperture correction for greater picture detail of bright objects
- Selectable electronic sensitivity enhancing modes including AUTO, MANUAL and OFF
- Built-in Digital Motion Detector
- Auto black-and-white mode enables the camera to switch between color and black-and-white picture in response to Light input.
- Electronic zoom function magnifies a scene 2-fold and changes the angle of view.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



- Panning table**
Adjusts the panning angle of the camera.
- Pan lock screw**
Fixes the panning position.
- Tilting lock screw**
Fixes the tilting position.
- AZIMUTH (Angle adjuster)**
Shoots in a straight-angle field of view when aiming at an object in a slanting direction even if the tilt angle has been set.
- Zoom lock lever**
Fixes the zoom position.
- Focus lock lever**
Fixes the focus position.
- LEFT button (L)**
Moves the cursor to the left, selects the mode and adjusts some levels.

- RIGHT button (R)**
Moves the cursor to the right, selects the mode and adjusts some levels.
- UP button (U)**
Moves the cursor upward and selects items in the CAM SET UP menu.
- DOWN button (D)**
Moves the cursor downward and selects items in the CAM SET UP menu.
- SET button (S)**
Activates an item selected in the CAM SET UP menu.
- BW AUTO1 LEVEL switch (SW5)**
Selects the illuminance level in LOW or HIGH mode for B/W. The factory default setting is HIGH.
- BW switch (SW4)**
Switches to AUTO1 between color and black-and-white picture in response to light input. The factory default setting is OFF.
- AP gain switch (SW3)**
Selects the aperture gain level to SHARP or SOFT. The factory default setting is SHARP.
- UPSIDE DOWN switch (SW2)**
Turns the picture upside down by selecting ON. The factory default setting is OFF.
- Sync switch (SW1)**
Switches internal sync (INT) mode or line-lock (LL) mode. The factory default setting is INT.
- Monitor output Jack (3.5 Diam. mini jack)**
Connects the LCD monitor and such devices with 3.5 diam. 2-pole L-type plug for checking images.
- Optional heater connector DC out**
When an optional heater unit is installed in the camera, the harness exiting from the unit will be connected to this.



19 Power cable (24 V AC or 12 V DC)

Cautions:
1. Connect to 12 V DC (10.5 - 16 V) or 24 V AC (19.5 V-28 V) class 2 power supply only. Make sure to connect the grounding lead to the GND terminal when the power is supplied from a 24 V AC power source.
2. To prevent fire or electric shock hazard, use a UL listed cable (VV-1, style 1007) for the Input Terminal.

20 Power cable for heater unit WV-CW3H (24 V AC)

Cautions:
1. Connect to 24 V AC (19.5 V-28 V) class 2 power supply only.
2. To prevent fire or electric shock hazard, use a UL listed cable (VV-1, style 1007) for the Input Terminal.

21 Video output cable with BNC connector

Connects with the video connector of the monitor.

22 Dome cover

Camera mounting bracket
The WV-CW474AS is supplied with a mounting bracket for ceiling installation.

SETUP

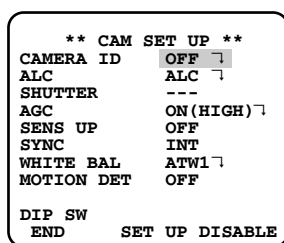
1. CAMERA SETUP MENU

This camera utilizes an on-screen user setup menu.

• Opening the Setup Menu

Press and hold down (S) for 2 seconds or more.

The CAM SET UP menu appears on the monitor as shown at right.
Check the current settings on the menu.



Refer to the following sections for a detailed description of menu items. If you decide not to make any changes after checking the current settings, move the cursor to END in the bottom line, and press (S) to close the setup menu.

Note: If no button is pressed for 5 minutes while a setup menu is being displayed on the monitor screen, it is automatically closed and the mode returns to the normal camera picture.

2. SETUP OPERATION

This camera utilizes an on-screen user setup menu (CAM SET UP). To set items on the CAM SET UP menu, use the following buttons on the side panel.

- Left Button (L): Moves the cursor to the left. Use this button to select or adjust the parameters of the selected item. The parameter changes each time this button is pressed.
- Right Button (R): Moves the cursor to the right. Use this button to select or adjust the parameters of the selected item. The parameter changes each time this button is pressed.
- Up Button (U): Moves the cursor upwards. Use this button to select an item or adjust the parameters.
- Down Button (D): Moves the cursor downwards. Use this button to select an item or adjust the parameters.
- Set Button (S): Executes selections and displays a submenu for an item with the mark.

- To reset the parameter to the factory default setting, move the cursor to the parameter to be reset and press (L) and (R) simultaneously.
- To return to the previous menu or page, move the cursor to RET and press (S).
- To close the setup menu, move the cursor to END and press (S).

• All Reset Operation

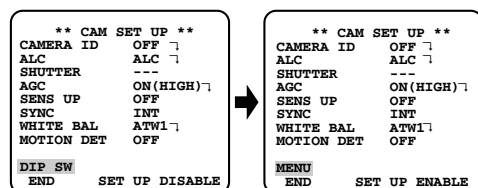
All Reset allows you to reset all setup menu items to the factory default settings if you are unsure about the correct settings. Proceed as follows:
(1) Make sure that the CAM SET UP menu is not displayed (a camera picture is displayed).
(2) While pressing both (L) and (R), press (S) for a few seconds. The message ALL RESET momentarily appears on the monitor screen.
This resets all adjustments and parameters to the factory default settings except for the PIX OFF setting.

• Editing the CAM SET UP Menu

Important Notice:
When SET UP DISABLE appears in the bottom line of the CAM SET UP menu, you cannot change the currently active settings. This is to prevent accidental changing of the settings.

To edit the CAM SET UP menu (change settings), press (U) and (D) or (L) and (R) to move the cursor to SET UP DISABLE in the bottom line.

Press (S). SETUP DISABLE changes to SETUP ENABLE. Move the cursor to DIP SW. Press (S). DIP SW changes to MENU. Then move the cursor to the item(s) you want to change.



Notes:

- When DIP SW is selected for CAM SET UP menu, five modes can be set with the DIP switches.
- To operate the camera functions with the system controller, select MENU in the CAM SET UP menu.

Important Notice:

When the setup menu is closed after changing the parameters in the menu, the new values are stored in the EEPROM (Electrically Erasable and Programmable Read-Only Memory). These values remain valid until new values are stored, even if the power of the camera is off.

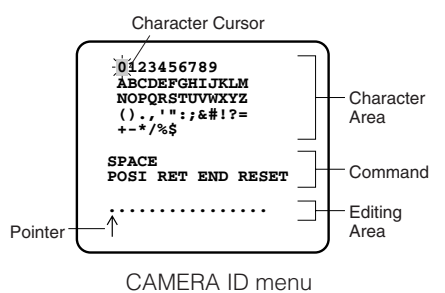
SETTING PROCEDURES

1. Camera Identification (CAMERA ID) Setting

You can use the camera identification (CAMERA ID) to assign a name to the camera. The camera ID consists of up to 16 alphanumeric characters. The camera ID display can be switched on or off on the monitor screen.

To edit the CAMERA ID

- Move the cursor to CAMERA ID. The factory default setting is OFF.
- Press (S). The CAMERA ID menu appears. The cursor on the letter "0" is highlighted.
- Move the cursor to the character you want to edit by pressing (L) / (R) / (U) / (D).
- After selecting the character, press (S). The selected character appears in the editing area. (The pointer in the editing area moves to the right automatically at this moment.)
- Repeat the steps above until all characters are edited.



To enter a blank space in the CAMERA ID

Move the cursor to SPACE and press (S).

To replace a specific character in the CAMERA ID

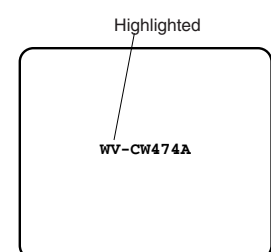
- Move the cursor to the editing area by pressing (D).
- Move the pointer to the character to be replaced by pressing (L) or (R). Then move the cursor to the character area and select a new character.
- Press (S) to determine the CAMERA ID.

To erase all characters in the editing area

Move the cursor to RESET and press (S). All characters in the editing area disappear.

To determine the display position of the CAMERA ID

- Move the cursor to POSI, and press (S). The display at right appears and the CAMERA ID is highlighted.
- Move the CAMERA ID to the desired position by pressing (L) / (R) / (U) / (D).
- Press (S) to fix the position of the CAMERA ID. The mode returns to the previous CAMERA ID menu.



Notes:

- The CAMERA ID stops at the edges of the monitor screen.
- The CAMERA ID moves faster if any of (L) / (R) / (U) / (D) is kept pressed for a second or more.

2. Light Control Setting (ALC)

2-1. ALC Mode with SUPER-D2 ON

Super Dynamic2 Function (SUPER-D2)

The important object in a scene is usually placed in the center of the monitor screen. In the SUPER-D2 mode, more photometric weight is given to the center of the screen (where the important object is located) than to the edge of the screen (where a bright backlight would most likely be located). The SUPER-D2 function eliminates interference by strong background lighting which makes the camera picture dark, such as a spotlight.

- Move the cursor to ALC and press (S). The ALC CONT menu appears.
- Move the cursor to SUPER-D2 and select ON.
- If you want to adjust the video output level, move the "I" cursor for LEVEL. Adjust to the desired level by pressing (L) or (R).

