

INSTRUCTION MANUAL BEDIENUNGSANLEITUNG MANUEL D'INSTRUCTIONS 使用说明书

COLOUR CCD camera CCD-Farbkamera Caméra CCD COULEUR 彩色CCD摄像机



About this manual

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for later reference.

Über diese Bedienungsanleitung

Lesen Sie bitte vor der Montage und dem Inbetriebnehmen der Kamera zuerst diese Bedienungsanleitung sorgfältig durch und bewahren Sie sie zum späteren Nachschlagen auf.

A propos de ce manuel

Avant d'installer et d'utiliser la caméra, veuillez lire ce manuel attentivement. Gardez-le à portée de main pour toute référence ultérieure.

关于本说明书

在安装和使用摄像机之前,请仔细阅读本使用说明书, 并务必保存好本使用说明书,以备今后查阅。 Depending on the conditions of use, installation and environment, please be sure to make the appropriate settings and adjustments. If you need help with installation and/or settings, please consult your dealer.

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FEATURES

- Built-in interline transfer method 1/4" CCD, approx. 320,000 picture elements
- Equipped with a DSP (Digital Signal Processor) function
- · Horizontal resolution, more than 350 TV lines
- High sensitivity, minimum required illumination is 0.9 lux (F1.2)
- Two types of backlight compensation functions (multi-spot photometry and center focus photometry)
- Low smear, anti-blooming, low lag, no burning and no geometric distortion using the CCD solid state image device.
- 100% solid state components giving excellent immunity to shock and vibration
- Not subject to interference from magnetic or electrostatic fields
- Power supply: 24 V AC and 12 V DC operation
- Use a DC type auto-iris lens.



PRECAUTIONS

In case of problem

Do not use the camera if smoke or a strange odour comes from the unit, or if it seems not to function correctly. Disconnect the power cord immediately, and consult your dealer (or a Sanyo Authorized Service Centre).

Do not open or modify

Do not open the cabinet, as it may be dangerous and cause damage to the unit. For internal settings and repairs, consult your dealer (or a Sanyo Authorized Service Centre).

Do not put objects inside the unit

Make sure that no metal objects or flammable substance get inside the camera. If used with a foreign object inside, it could cause a fire, short-circuits or damages.

If water or a liquid gets inside the camera, disconnect the power cord immediately, and consult your dealer (or a Sanyo Authorized Service Centre). Be careful to protect the camera from rain, sea water, etc.

Be careful when handling the unit

To prevent damages, do not drop the camera or subject it to strong shock or vibration.

Install away from electric or magnetic fields

If installed close to a TV, radio transmitter, magnet, electric motor, transformer, audio speakers the magnetic field they generate will distort the image.

Protect from humidity and dust

To prevent damages to the camera, do not install it where there is greasy smoke or steam, where the dampness may get too high, or where there is a lot of dust.

Protect from high temperatures

Do not install close to stoves, or other heat generating devices, such as spotlights, etc., or where it could be subject to direct sunlight, as that could cause deformation, discoloration or other damages.

Be careful when installing close to the ceiling, in a kitchen or boiler room, as the temperature may raise to high levels.

Install where the temperature range will stay between -10° C and 50° C. (no condensation)

Cleaning

- Dirt can be removed from the cabinet by wiping it with a soft cloth. To remove stains, wipe with a soft cloth moistened with a soft detergent solution and wrung dry, then wipe dry with dry soft cloth.
- Do not use benzine, thinner or other chemical product on the cabinet, as that may cause deformation and paint peeling. Before using a chemical cloth, make sure to read all accompanying instructions. Make sure that no plastic or rubber material comes in contact with the cabinet for a long period of time, as that may cause damage or paint peeling.



PARTS NAMES



Plange-back adjustment dial

C Lens mount cap

The cap is installed to protect the lens mount section.

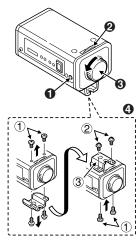
Remove the lens mount cap before installing a lens (sold separately).

O Camera installation bracket

The bracket can be fixed at the top or bottom of the camera. When fixing the bracket, be sure to use the longer screws and install the shorter screws on the opposite side to seal the openings.

CAUTION:

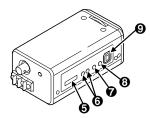
When installing the camera support, select a location that can support the total weight of the camera and accessories.



- 1 Shorter screws: M3 x 4
- ② Longer screws: M3 x 6
- ③ Camera mounting screw hole: 1/4"-20 UNC



PARTS NAMES



- G Camera setup section
- **(b)** White balance adjustment volume (R or B)
- Line phase adjustment volume (PHASE)
- O Lens iris adjustment volume
- Lens iris output connector (LENS)

This 4-pin connector is used to send the DC control signal and power supply to an auto-iris type lens.

Wideo output connector (VIDEO OUT: BNC type)

Connect this connector to a device such as a VCR or monitor with a VIDEO IN connector.

24 V AC or 12 V DC input terminal (AC24V, DC12V, GND)

Power indicator (POWER)

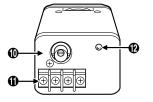
Comes on when the power to the camera is on.

Power supply connections

Use a 3 wire grounded cable (22 AWG or more), and connect as shown by the illustration.

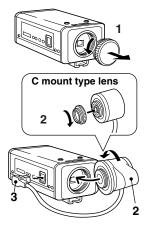
CAUTION:

- To prevent camera and/or AC adaptor failure, pay close attention to polarity when making the connections.
- To prevent fire hazard any UL listed wire rated VW-1, should be used for the 24 V AC cable input terminal.





MOUNTING THE LENS



CS mount type lens

Please use a DC type auto-iris lens (sold separately).

Check the lens mount

Do not use a lens if the length "L" is more than ${\bf 5}$ mm. That may damage the camera and prevent proper installation.



Remove the lens mount cap from the camera.

2 Install the auto-iris lens.

CS mount type lens

Carefully align the lens mount with the camera opening, then turn the lens slowly to install it.

C mount type lens

To allow for flange-back adjustment, install the C-mount adaptor (option) on the lens mount, then carefully align the lens mount with the camera opening and turn the lens slowly to install it.

3 Connect the lens plug to the lens iris output connector (LENS) on the side of the camera.

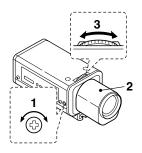
When using lenses from other makers, the plug shape may not correspond to the terminal on the camera. In such a case, remove the original plug and using a soldering iron, connect the supplied **lens iris plug** according to the diagram. (Refer to page **6**.)



MOUNTING THE LENS

Pin layout





	DC type lenses			
1	1 Brake coil (-)			
2	Brake coil (+)			
3	Drive coil (+)			
4	Drive coil (-)			

Flange-back adjustment

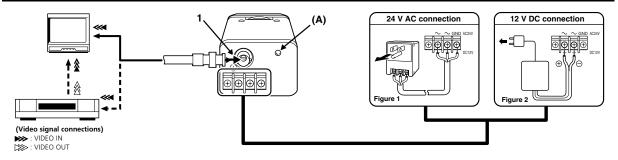
If the pick-up surface is not correctly positioned with relation to the lens focal point, the picture will be out of focus (in particular when using auto-iris power zoom lenses, sold separately). If that is the case, adjust the flange-back position as described below.

Using a + screwdriver, loosen the flange-back lock screw (M2:+).

- **2** Set the zoom lens to the maximum telephoto position, set the focus using the focus ring on the lens.
- **3** Set the zoom lens to the maximum wide angle position, set the focus using the **flange-back adjustment dial**.
- **4** Repeat steps 2 and 3, until the image stays in focus when changing from a telephoto shot to a wide angle shot. When the setting is complete, tighten the **flange-back lock screw**.



CONNECTIONS



Basic connection for monitoring or recording

The peripheral devices (VCR, monitor, lens, etc.), AC adaptor and cables are sold separately.

1 Make the video signal connection between the camera and the monitor or time lapse VCR.

2 Connect the power supply.

- If using a commercially-available 24 V AC adapter, always be sure to connect the ground wire (18AWG or higher) to the ground terminal. (Figure 1)
- If using a 12 V DC power supply, make the connections as shown in Figure 2.

Note:

 In order to avoid any problems with the camera and the power supply, take sufficient care to ensure that the polarities are correct when connecting the power supply.

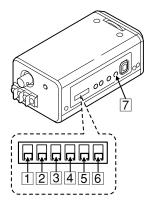
- **3** Insert the plug of this power cord into a wall outlet. The **POWER** indicator (**A**) will light. Adjust the picture on the monitor using the Brightness and Contrast controls etc.
- Coaxial cable type and maximum length
- Cable type RG-59U (3C-2V), 250 m maximum.
- Cable type RG-6U (5C-2V), 500 m maximum.
- Cable type RG-11U (7C-2V), 600 m maximum.

CAUTION:

- The RG-59U type cable should not be run through electrical conduits or through the air.
- Use CCTV/Video-grade coaxial cable.



Camera setup section



No.	Settings	Position
1	Electronic Iris (EI)/Auto iris (AI) setting	AI
2	Aperture compensation setting	SHRP
	SHRP (sharp)/NORM (normal)	SHAP
3	Backlight compensation mode setting (BLC)	OFF
	• MULTI (Multi)/OFF	UFF
4	Backlight compensation mode setting (BLC)	OFF
	CENT (Center)/OFF	UFF
5	White balance setting	ATW
	 MANU (manual)/ATW (auto tracing white balance) 	
6	Syncronisation (SYNC) setting	INT
	LL (Line lock)/INT (Internal sync)	1111
7	Lens iris adjustment	—



Iris function setting 1

This should normally be set to the down (AI) position.

Use a manual or fixed iris lens and set the lens aperture to the shortest F stop. Set the switch 1 to the up (**EI**) position.



Note:

Please refer to the specifications for dynamic range of the electronic iris.

CAUTION:

- The electronic iris is suitable for normal indoor use. When the switch 1 is set to the up (**EI**) position, do not use an auto-iris lens.
- If used under fluorescent light, the image may flicker. In such a case, change to incandescent lighting or set the switch 1 to the down (AI) position and use an auto-iris lens.
- When shooting bright subjects, pay attention to the light angle in order to avoid or minimize the smear phenomenon effect.

When using an auto-iris lens (for indoor/ outdoor use)

Set the switch 1 to the down (AI) position.

CAUTION:

If conditions are outside the electronic iris operation range or more than the maximum illumination, it will cause saturation of the CCD. In that case, use a manual iris lens.

Aperture 2

If you would like to emphasize the contours of the object, set the switch $\boxed{2}$ to the up (SHRP) position.





Backlight compensation setting 3 4

This camera has two different backlight

correction functions: multi-spot photometry (**MULTI**) and center focus photometry (**CENT**). The normal setting (switch 3 and 4) is the down position, but you can change the switch 3 or 4setting in accordance with the backlight conditions.

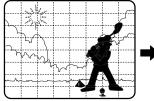
IULTI	CENT
3	4

- MULTI mode: Use this position when applying backlight compensation to the whole of the screen.
- CENT mode: Use this position when applying backlight compensation to only the central portion of the screen.

Note:

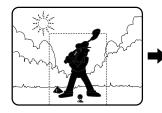
- When using the backlight compensation function, set the switch 3 or 4 to the up position. When not using the function, set the switch 3 and 4 to the down (OFF) position.
- When **MULTI** mode is set, scenes with no backlighting may appear extremely dark and the object may appear overexposed. If this happens, move the switch 4 to the up (**CENT**) position.

(MULTI mode: 64 sections)





(CENT mode)







White balance adjustment 5

Normally the switch [5] is set to the down (**ATW**: auto white balance) position and the white balance is adjusted automatically. If a manual white balance adjustment is necessary, follow the steps below.

Set the switch \fbox to the up (MANU) position, then adjust the colour.

• Turn **R** to set the red ratio and/or **B** to set the blue ratio.



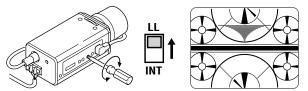
Line phase adjustment 6

When using a camera switcher to connect 2 cameras or more to one monitor, there may be a vertical roll of the images when switched. In such a case, set as described below.

Set the switch 6 to the up (LL) position.

2 Switch the display on the monitor from camera 1 to camera 2. Adjust the Line **PHASE** volume on camera 2 until the vertical roll of the image stops.

If more than two cameras are used, please repeat this procedure for all the cameras.



CAUTION:

If the vertical roll cannot be corrected by setting the Line **PHASE** volume on camera 2, try setting the Line **PHASE** volume on camera 1. If it still cannot be corrected, please check that the polarity of the power cords of all connected devices is correct.



Lens iris adjustment 7

If using a DC type auto-iris lens, you will need to set the **LEVEL** volume when shooting in the conditions described below.



L (counterclockwise): To decrease the contrast

H (clockwise): To increase the contrast

- If shooting simultaneously in a dark room and through a bright window.
- If the subject background is extremely bright or dark.
- If the brightness of the picture on the monitor is not correct.



TROUBLESHOOTING

Before taking the camera for repairs, please check below to make sure that the camera is used correctly. If it still does not perform correctly, please consult your dealer or a Sanyo Authorized Service Centre.

No picture on the monitor screen

- · Is the power turned on to all connected devices? Is the voltage correct?
- Are all the signal connecting cables correctly connected?
- Is the lighting sufficient?
- Has the lens cap been removed?
- Is the iris control correctly set?

The picture is not clear

- Is the monitor correctly adjusted?
- · Is the flange-back position correctly set?
- · Is the lens focus correctly adjusted?
- Are the lens surfaces clean?

If there is dust or finger prints on the lens, the image quality will deteriorate. To clean the lens use a soft cloth or a commercially available lens cleaning set.

SERVICE

This camera is a precision instruments and if treated with care, will provide years of satisfactory performance. However, in the event of a problem, the owner is advised not to attempt to make repairs or open the cabinet. Servicing should always be referred to your dealer or Sanyo Authorized Service Centre.

SPECIFICATIONS

Camera:

oounning oyote
Interlace
Image device

Scanning system

Picture elements : 537 (H) x 597 (V) Effective picture elements : 500 (H) x 582 (V) Synchronizing system : Internal sync, Line

Resolution

Video output level Video S/N ratio Minimum required illumination (incandescent lighting) Backlight compensation

Iris function Electronic iris range

Flange-back White balance Lens mount

- : PAI standard (625 TV lines, 25 frames/sec.) : PLL 2:1 interlace : 1/4 inch solid state image device CCD : 537 (H) x 597 (V) : Internal sync, Line lock manually switchable : 350 TV lines horizontally, 400 TV lines vertically : 1.0 Vp-p/75 ohms, composite : More than 48 dB : Approx. 0.9 lux with a F 1.2 lens : MULTI/OFF switching, **CENT/OFF** switching
- : Manual EI/AI switching
- : 0.9 lux to 45,000 lux (F 1.2 lens)
- : 12.5 mm ± 0.5 mm
- : ATW/Manual switching
- : CS mount

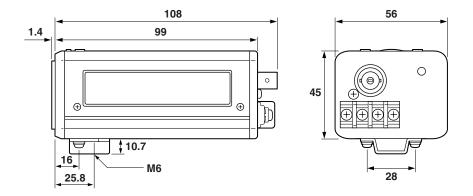
Environmental conditions	:	Temperature: -10°C - +50°C Humidity: less than 90% (no condensation)
Power supply	:	24 V AC, 50 Hz/12 V - 15 V DC
Power consumption	:	Approx. 2.8 W (with AI, lens) Approx. 2.2 W (without AI, lens)
Weight	:	Approx. 280 g (without lens)

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SPECIFICATIONS

Dimensions



Features and specifications are subject to change without prior notice or obligations.

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