

TK-C205 DOME CAMERA

JVC®

DOME CAMERA
CAMÉRA À DÔME
CÁMARA DOMO

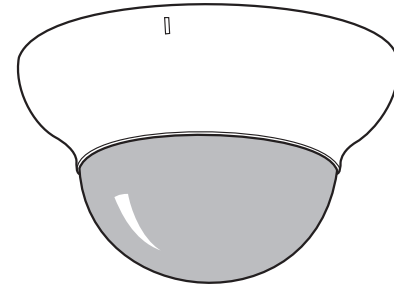
TK-C205

INSTRUCTIONS
MODE D'EMPLOI
INSTRUCCIONES
(A)

English

Français

Español



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LWT0216-001A-H

For Customer Use:

Enter below the Serial No. which is located on the body. Retain this information for future reference.

Model No. TK-C205

Serial No. _____

LWT0216-001A-H

These are general IMPORTANT SAFEGUARDS and certain items may not apply to all appliances.

IMPORTANT SAFEGUARDS

1. Read all of these instructions.
2. Save these instructions for later use.
3. All warnings on the product and in the operating instructions should be adhered to.
4. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
6. Do not use this appliance near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
7. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance.
Use only with a cart or stand recommended by the manufacturer, or sold with the appliance. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer. An appliance and cart combination should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
8. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface.
This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
9. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions.
10. This appliance system is equipped with a 3-wire grounding type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding plug.
11. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
12. Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.



PORTABLE CART WARNING
(symbol provided by RETAC)



13. Follow all warnings and instructions marked on the appliance.
14. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
15. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
16. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
17. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
 - c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
 - e. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance - this indicates a need for service.
18. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
19. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

Safety Precautions

FOR USA AND CANADA

	CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN		
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



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.

Due to design modifications, data given in this instruction book are subject to possible change without prior notice.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

AVERTISSEMENT:
POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER L'APPAREIL A L'HUMIDITE OU A LA PLUIE.

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR CANADA)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Class B est conforme à la norme NMB-003 du Canada.

INFORMATION FOR USA

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Introduction

Thank you for purchasing this product.
(These instructions are for TK-C205U and TK-C205E)

Features

- The camera uses a high-resolution 380,000 pixel (U type) / 440,000 pixel (E type), high-sensitivity CCD to realize high picture quality with horizontal resolution of 535 TV lines and S/N 50dB.
- Dome-type design allows application in various locations.
- Built-in backlight compensation feature to improve the quality of video taken under backlight conditions.
- A 4inch square electrical box compatible
- The camera can be set to automatically switch the image to black and white mode when the brightness of the subject decreases. This feature is useful for monitoring in darkness.

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Introduction

Safety Precautions

- Installation of this unit requires expertise. Please contact your dealer for details.
- The ceiling to mount the camera has to be strong enough to support the weight of this product.
If the ceiling is not strong enough, make sure to apply reinforcement to the ceiling before installation.
- Be sure to tighten the screws and nuts securely. Insufficient tightening may cause the unit to fall from its mount.
- The unit is to be powered by a DC 12 V or an AC 24 V power supply.
The AC 24 V power supply should conform to the following:
Class 2 only (U type)
Isolated power supply only (E type)
- The rating label is displayed on the underside of the body.
- JVC will not be liable for any damage resulting from the camera dropping due to incomplete installation by not following the installation instructions. Take caution when performing installation.
- Before starting an important recording, be sure to perform a test recording in order to confirm that a normal recording is possible.
- We do not accept liability for the loss of a recording in the case of it becoming impossible to record due to a problem in the video camera, VCR or video tape.
- We do not accept liability for any damage to the camera in cases when it is dropped because of incomplete installation due to not observing the installation instructions correctly. Please be careful when installing the camera.

Operating Precautions

- To save energy, when it is not being used turn the system's power off.
- This camera has been designed for indoor use. It cannot be used outdoors.
- Do not install or use the camera in the following places.
 - In a place exposed to rain or moisture.
 - In a place with vapor or oil soot, for example in a kitchen.
 - In a temperature outside the operating temperature range (-10°C to 50°C).
 - Near a source of radiation, X-rays, strong radio waves or magnetism.
 - In a place where corrosive gasses are generated.
 - In a place subject to vibration.
 - In a place with excessive dirt.
- If this camera and the cables connected to this camera are used where there are strong electromagnetic waves or where there is magnetism present, for example near a radio or TV transmitter, power transformer or an electric motor, the picture may produce noise and the colors may be affected.
- This camera incorporates an AGC circuit. As a result, when it is used under low light conditions, the camera sensitivity is automatically boosted and the picture may look uneven. This is not a malfunction however.
- When this camera is used in the ATW mode, the recorded colors may be slightly different from the actual colors due to the operational principles of the auto-tracking white balance circuit. This is however not a malfunction.
- If a high-intensity object (such as a lamp) is shot, the image on the screen may have vertical lines (smear) or blur (blooming) at its periphery. This is a characteristic of the CCD, and is not a defect.
- Observe the following when carrying out camera maintenance.
 - Turn the power OFF before proceeding to carry out maintenance.
 - Clean the dome cover lens using a lens wiper cloth (or a tissue).
If it is contaminated seriously, clean the contaminated part with a cloth (or a tissue) which has been soaked in a solution of water and a neutral detergent.
- Do not install the unit in an environment where there is cold air or near the air outlet of an air conditioner. The dome cover will cloud as a result.
- If the D/N switch is turned on, the mode changes automatically to black and white in dark places. As the sensitivity increases, the image may look grainy and white spots may appear. When changing modes, bright portions of image may be emphasized but this is not a failure of the camera.

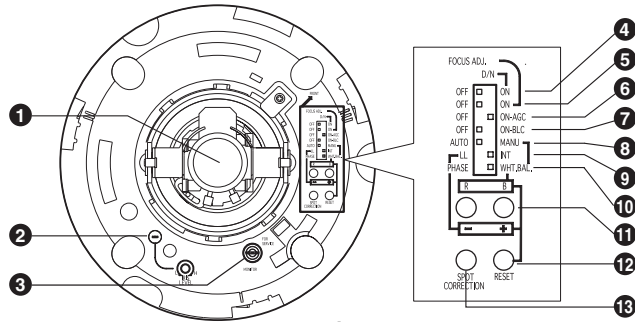
Introduction

Names and Operations of Parts

■ Body Surface

View when the dome cover is removed.

For instructions on removing the dome cover, see step 4 of "Mounting the Camera to the Ceiling". (☞ page 11)



1 Head

For adjusting the lens, focus, or camera angle.

(☞ page 14 ~ 15)

2 [IRIS LEVEL] Iris level adjustment

For adjusting the level of the automatic aperture control lens. This adjustment only needs to be made when required. Use this to accommodate particular shooting conditions.

	Turning direction of level
To darken image	Counterclockwise (L side)
To brighten image	Clockwise (H side)

MEMO

- When adjusting the iris level, set the AGC switch to "OFF". Otherwise, when the level is turned too far toward L, the AGC function activates increasing sensitivity and the picture may look uneven.

3 MONITOR terminal (RCA pin)

For connecting a monitor when mounting the camera for adjusting the lens or determining the camera angle. (High impedance)

4 [D/N - ON/OFF] Easy Day & Night switch

To capture a subject with continually changing brightness (day/night), set this switch to "ON." The camera automatically captures the image in color when the subject is bright, and in black and white mode when it is dark.

(Default setting: OFF)

CAUTION

The Easy Day & Night feature on this camera uses a sensitized black and white mode unlike other black and white surveillance cameras that use infra-red lighting.

5 [FOCUS ADJ. - ON/OFF] focus adjustment switch

When adjusting the focus during installation, setting this switch to "ON" will open the iris.

(Default setting: OFF)

(☞ page 15)

6 [AGC - ON/OFF] Auto-gain control switch

Setting this switch to "ON" automatically increases the sensitivity even when the brightness of the subject is insufficient. (Default setting: ON)

7 [BLC - ON/OFF] Backlight compensation switch

Setting this switch to "ON" opens the iris even in backlight conditions, making the subject easier to view.

(Default setting: OFF)

8 [AUTO/MANU] Auto/manual selection switch

For selecting whether to adjust the white balance automatically or manually. (Default setting: AUTO)

9 [INT/LL] Synchronization system selection switch

This switch sets the synchronizing system for the camera.

INT:

This is set for internal synchronization

LL (Line Lock):

The camera's vertical synchronization is locked to the AC 24 V power line frequency.

When switching between multiple cameras using a switcher, selecting this mode and adjusting the vertical phase can reduce the monitor sync disturbances occur that when the camera image is switched.

(Default setting: INT)

10 [WHT.BAL/PHASE] adjustment selection switch

Switch to select the function of the 11 [R/B, +/-] adjustment button.

■ When setting to WHT.BAL:

When the 8 [AUTO/MANU] switch is set to MANU, the white balance can be adjusted using the [R/B, +/-] button.

■ When setting to PHASE:

When the 9 [INT/LL] switch is set to LL, the vertical phase of the line lock can be adjusted using the [R/B, +/-] button.

(Default setting: WHT.BAL)

11 [R/B, +/-] adjustment button

This button is pressed when manually adjusting the white balance or when adjusting the vertical phase of the line lock.

The function of this button is selected using the 10 [WHT.BAL/PHASE] switch.

■ When manually adjusting the white balance:

Press the R button to increase the red tint and decrease the blue tint.

Press the B button to increase the blue tint and decrease the red tint.

■ When adjusting the phase:

Press the + or - button to adjust the phase.

12 [RESET] Reset button

When this button is pressed, the value of the white balance or phase adjusted manually is reset to the default value.

When the 10 [WHT.BAL/PHASE] switch is set to WHT.BAL, the white balance is reset to the default value. When the switch is set to PHASE, the phase is reset to the default value.

13 [SPOT CORRECTION] White-spot correction button

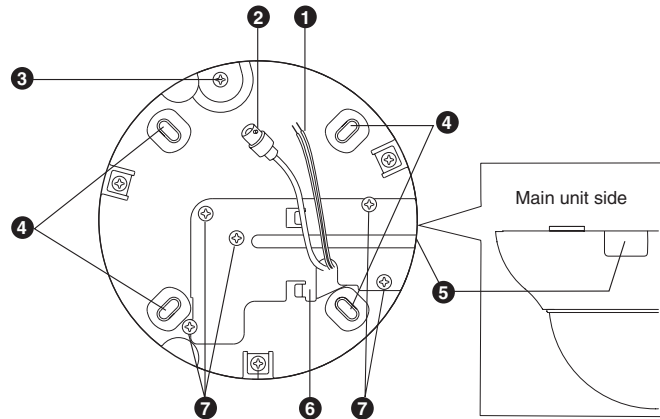
When this button is pressed, white spots are corrected.

For instructions on correcting white-spots, see "About White-spot correction". (☞ page 16)

Introduction

Names and Operations of Parts (continued)

■ Body Underside



1 Power Supply cable

To input DC 12 V or AC 24 V power.

The AC 24 V power supply should conform to the following:

U-type: Class 2 only

E-type: Isolated power supply only

2 Video signal output connector (BNC)

This BNC connector outputs a composite video signal. Connect this to the video input connector of a video monitor, switcher, etc.

3 Safety cable

This wire is mounted to the ceiling slab or channel. (Safety cable not included.)

CAUTION:

To avoid unforeseen accidents, attach the safety cable. Otherwise, there is nothing to prevent the camera from falling should it come loose.

4 Mounting holes

These holes are used to mount the camera body to the ceiling. When using a 4 inch square electrical box, the 2 holes diagonally across are used to fix the box in place.
(☞ page 13)

5 Cable extraction hole

This hole is used to extract cables from the side of the camera without opening holes in the ceiling.

6 Cover

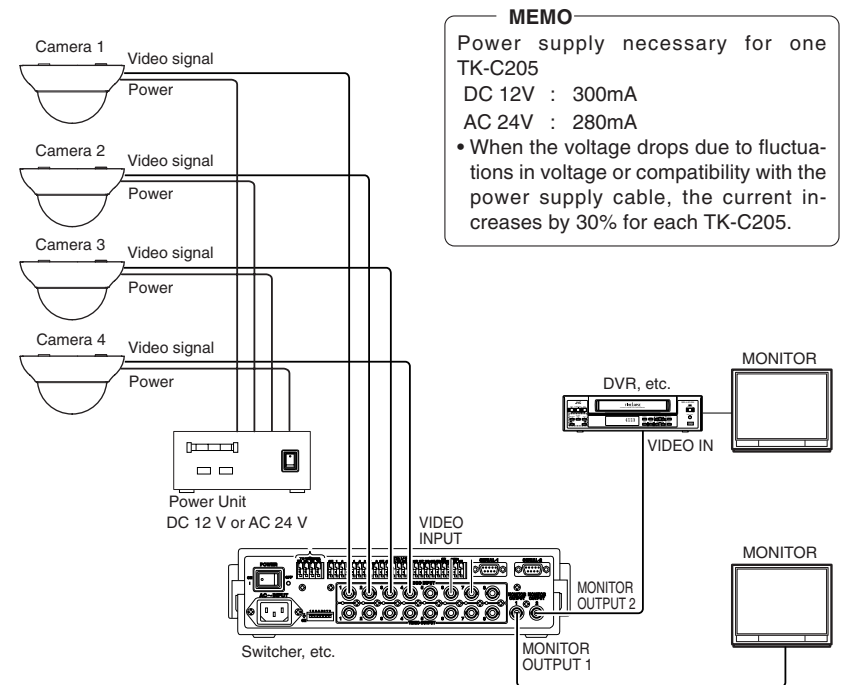
This cover is removed to pull the cables through the 5 cable extraction hole. Replace the cover after pulling the cables.

7 Cover locking screw

This screw is removed when removing the 6 cover.

Installation and connection

System diagram



- Turn OFF the power supply to all equipment to be used before making connections.
- Read the Instruction Manual for each piece of equipment to be used before making connections.

Installation and connection

About Connection Cables

Be careful of the following items when connecting the cables.

- Turn OFF the power supply to all components before making connections.

■ Video signal cables

Connect the coaxial cables (BNC) to the video signal output connector (BNC).

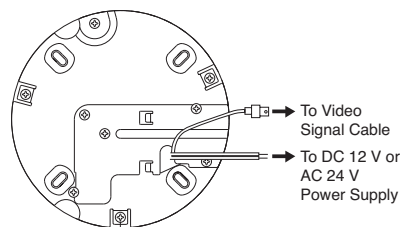
Cable	Maximum extension (No cable compensator)
RG-59	200m
RG-6	350m
RG-11	450m

■ DC 12 V or AC 24 V power supply cable

Connect the DC 12 V or the AC 24 V power supply to the DC 12V/AC 24V terminals on the terminal board. To prevent connection errors or a cable disconnection, we recommend the use of lug plates for the connections.

The following table shows the connection distances and connection cables provided that 2-conductor VVF cables (vinyl-insulated vinyl sheath cables) are used.

Conductor diameter (mm)		ø1.0mm (AWG18)	ø1.6mm (AWG14)	ø2.0mm (AWG12)
Maximum extension (m)	DC 12V	60m (200ft)	160m (520ft)	250m (820ft)
	AC 24V	150m (490ft)	400m (1300ft)	600m (2000ft)

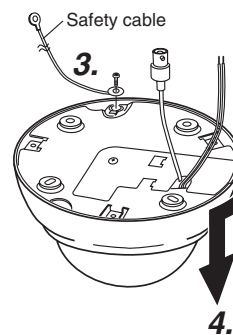
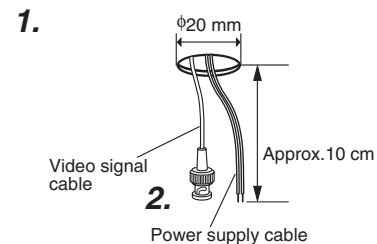


CAUTION:

- If thin cables are used (i.e. with a high resistance), a significant voltage drop will occur when the unit is at its maximum power consumption. Either use a thick cable to restrict the voltage drop at the camera side to below 10%, or place the power supply near to the camera. If voltage drop occurs during operation, the performance will be unstable.
- Do not allow input from both a DC 12 V and AC 24 V power supply at the same time.
- When using a DC 12 V power supply, ensure that the polarities of the cable are correct.
- The AC 24 V power supply should conform to the following:
U-type: Class 2 only
E-type: Isolated power supply only

Mounting the Camera to the Ceiling

Open hole in ceiling, connect cables and mount camera to ceiling.



Preparations

1. Open a hole in the ceiling.

Use the template and open a hole in the ceiling for the cables.

MEMO

There is no need to open a hole in the ceiling when using the cable extraction hole on the side of the camera.
(☞ page 8)

2. Pull out the cables from the ceiling.

Before connecting, pull out the power supply and video signal cables about 10 cm from the ceiling.

3. Attach the safety cable to the camera. (Safety cable not included)

Attach the safety cable to the back of the camera.

CAUTION:

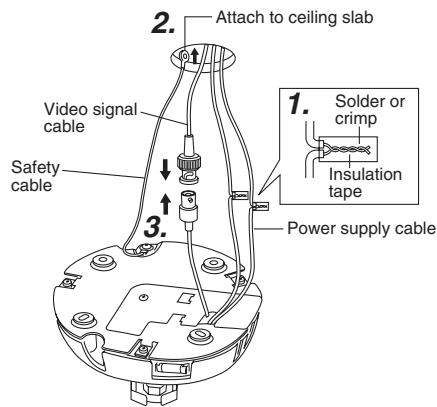
- To avoid unforeseen accidents, attach the safety cable.
- Select a suitable safety cable based on length, strength, location, material (insulation property), etc.
- Always use the M2.6 × 6 screws mounted on the unit.

4. Remove the dome cover.

Turn the dome cover counterclockwise and pull downwards to remove.

Installation and connection

Mounting the Camera to the Ceiling (continued)



Installation

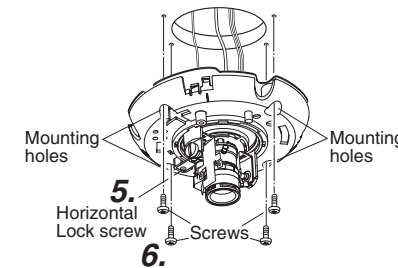
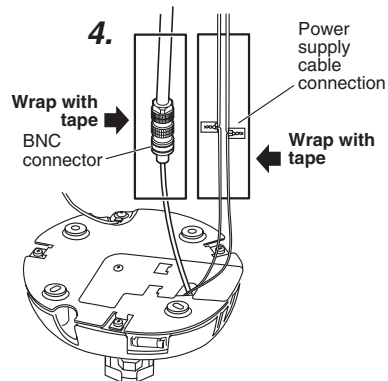
- 1. Connect the power supply cable.**
Connect the cable protruding from the ceiling to the power supply cable.

MEMO
The power supply cable uses materials similar to those of machinery wiring, so wrap the cable with insulation tape to prevent it from becoming damaged when mounting the camera. Use durable wiring for the power supply cable.

- 2. Attach the safety cable to the ceiling slab. (Safety cable not included)**
Attach the safety cable that has already been attached to the camera to the ceiling slab or channel. Make sure that the wire is attached securely.

- 3. Connect the video signal cable.**
- 4. Wrap insulation tape around cables.**
As shown in the diagram to the left, wrap insulation tape around the power supply cable connection and BNC connector. Insert the cables into the hole in the ceiling.

MEMO
Wrapping the wires with insulation tape improves handling as well as reducing interference.



- 5. Point the camera in the direction you wish to capture.**

Point the camera so that the Horizontal Lock screw is facing the direction you wish to capture. The camera can be adjusted $\pm 60^\circ$ horizontally to either side of the Horizontal Lock screw.

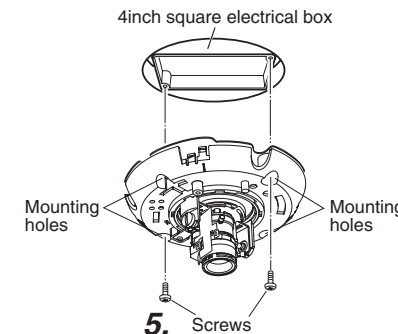
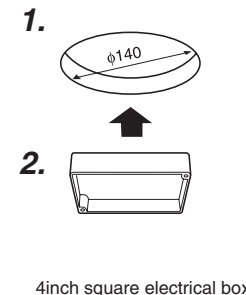
- 6. Mount the camera to the ceiling.**
Use M4 screws/bolts or wood screws ($\phi 4.1\text{mm}$) to secure the camera in four places when mounting to the ceiling or wall.

CAUTION:

Tighten all screws securely. Otherwise the camera may come loose and fall.

When installing the Dome camera to the electrical box

The camera can be mounted directly onto an electrical box.



- 1. Open a hole in the ceiling.**
Open a $\phi 140\text{mm}$ hole in the ceiling.
- 2. Mount the electrical box.**
The camera can be mounted on a 4-inch square electrical box. For instructions on mounting the electrical box, ask your dealer.
- 3. Follow steps 2 to 3 of "Mounting the Camera to the Ceiling (Preparations)".**
(page 11)
- 4. Follow steps 1 to 6 of "Mounting the Camera to the Ceiling (Installation)".**
(page 12)
- 5. Mount the camera to the electrical box.**
Secure the camera to the electrical box using two mounting holes.

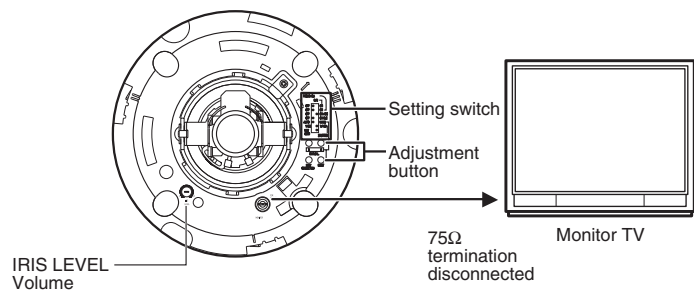
CAUTION:

Tighten all screws properly. Otherwise the camera may come loose and fall.

Installation and connection

Connection for Adjustment of the Camera

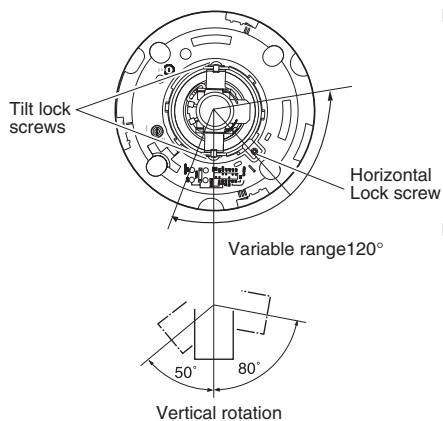
The MONITOR terminal is used when making various adjustments to the camera at installation.



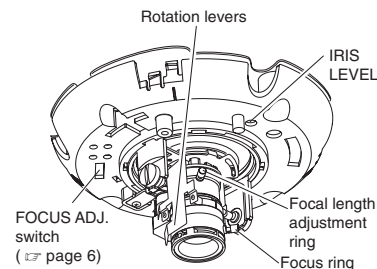
* The power to the camera body must be ON when adjustments are performed.

Adjusting the Lens and Camera Angle

Camera angle, zoom and focus are adjusted.



- Horizontal rotation (adjustable range: 120°)**
 1. Loosen the horizontal LOCK screw.
 2. Holding the both tilt lock screws, rotate horizontally.
 3. Tighten the horizontal LOCK screw.
- Vertical rotation (adjustable range: +80°, -50°)**
 1. Loosen the tilt lock screws.
 2. Holding the rotation levers, rotate vertically.
 3. Tighten the tilt lock screws.



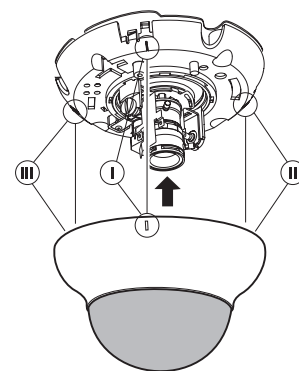
- Image inclination (adjustable range: ±15°)**
 Manipulate the rotation levers to adjust the inclination of the image.

- Adjusting the iris level**
 This adjustment only needs to be made when required. (page 6)

- Adjusting the image size**
 1. Turn the securing screw of the focal adjustment ring counterclockwise.
 2. Adjust the focal length.
 3. Turn the securing screw clockwise to secure the focal adjustment ring.

- Adjusting the focus**
 Adjust using the focus ring.
 1. Set the FOCUS ADJ. switch to "ON".
 The aperture is opened, decreasing the depth of field, making it easier to adjust the focus.
 2. Adjust the focus.

- * Repeat steps 1 to 3 of "Adjusting the image size" and "Adjusting the focus".
- 3. After adjustment is complete, set the FOCUS ADJ. switch to "OFF".



- Attach the dome cover.**
 Set the dome cover to the unit by aligning the 3 marks on the camera and dome cover (I, II and III). Be sure a click is heard.

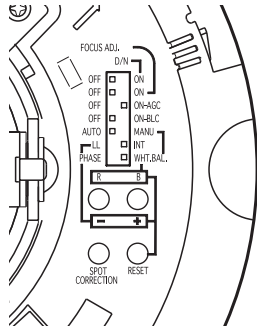
CAUTION:

Be sure that the dome cover is firmly attached. Improper attachment could result in the cover dropping down.

Others

About White-spot correction

As a general characteristic unique to CCDs, white-spots may appear on the screen with age. In order to reduce this phenomenon, this unit is equipped with a white-spot correction feature.



Usage

Switch on the camera power supply and wait for at least 30 minutes.

1. Remove the dome cover.
2. Cover the lens surface using a black sheet of paper, etc. so that light does not enter the lens.
3. Press and hold the SPOT CORRECTION button on the unit for more than 2 seconds.
 - White-spot correction will start. Correction may take several seconds for completion.

Memo:

- The white-spot correction feature of this unit does not guarantee the correction of all white spots.
Maximum correction: less than 16 ~ 32 spots
Depending on the characteristic of white spots, correction may not be possible.
- When performing white-spot correction, accurate data may not be achieved in case of highly-detailed pixels since correction is made using the information of surrounding pixels.
- The result of white-spot correction is maintained until the next correction is performed.

Specifications

Signal system:

U type based on NTSC standard
E type based on PAL standard

Image device: 1/4" IT CCD

Effective picture elements:

U type 380,000 pixels,
768 (H) × 494 (V)

E type 440,000 pixels,
752 (H) × 582 (V)

Sync system: Line lock/Internal

Video S/N: 50 dB (AGC OFF, Typ.)

Horizontal resolution:

535 TV lines (Typ.)

Minimum illumination:

U type Color mode:
3.0 lx (AGC ON, 50%,
WIDE end) (Typ.)
1.5 lx (AGC ON, 25%,
WIDE end)
Black and White mode:
2.0 lx (AGC ON, 50%,
WIDE end) (Typ.)
0.9 lx (AGC ON, 25%,
WIDE end)

E type Color mode:
4.8 lx (AGC ON, 50%,
WIDE end) (Typ.)
2.4 lx (AGC ON, 25%,
WIDE end)
Black and White mode:
3.2 lx (AGC ON, 50%,
WIDE end) (Typ.)
1.6 lx (AGC ON, 25%,
WIDE end)

White balance: ATW/Manual (switchable)
ATW: Color temperature range
2300K to 10000K.

Backlight compensation:

ON/OFF (Switchable)

Easy Day & Night:

ON/OFF (Switchable)

Lens:

Focal length: 2.6 mm to 6 mm (variable)

Max. aperture ratio:

F1.2 to F1.8

Angle of vision:

f = 2.6 mm

82° (H) × 59° (V)

f = 6 mm

35° (H) × 26° (V)

Angle adjustment range:

Horizontal: 120°

Vertical: +80°, -50°

Tilt: ±15°

Power requirement:

AC 24 V ~ 50 Hz/60 Hz
or DC 12 V ≒

Power consumption:

U type Approx. 4.2 W

E type Approx. 300 mA

Mass:

570 g

Operating temperature:

-10°C to 50°C (recom-
mended: 0°C to 40°C)

Dimensions:

Approx. 156 mm diam-
eter × 89 mm

Accessories:

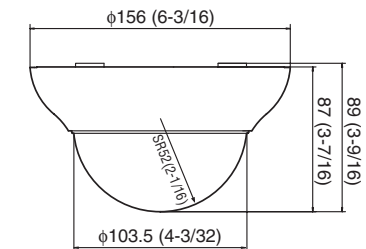
U type

- Instructions × 1
- Warranty card × 1
- Service information card × 1
- Template × 1

E type

- Instructions × 2
- Template × 1

External dimensions [Unit: mm (inches)]



- Design and specifications are subject to change without notice.

Template テンプレート

