

DOME CAMERA

TK-C215VP4 TK-C215VP12

INSTALLATION PRECAUTIONS

To installation contractor

: Be sure to read the followings beforehand for proper installation. Pass the manual to user after reading.

To user

: Please be sure to keep together with the instruction manual after reading.

LST0474-001B

Safety Precautions

Precautions regarding fall prevention

warning

Mounting to a firm place.

When mounting this unit to the ceiling or wall, mount it to a secure location where it can support the mass of this unit. When mounting to an insecure location, make sure to carry out reinforcement of the ceiling or wall before installation.

The camera unit may fall if the mounting screw or piping is not properly tightened. Ensure that the screws and nuts are properly tightened.

Mounting the fall prevention wire

Connect the fall prevention wire to prevent this unit from falling accidentally. The camera unit may fall if this wire is not connected.

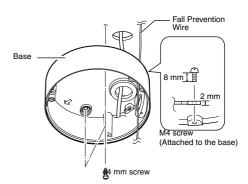
Mounting screws for the base

Be sure to use M4 screw.

Mounting the fall prevention wire

Note:-

- Pay attention to the length, strength, routing and material (insulation properties) of the fall prevention wire used.
- The internal diameter of the rounded portion on the camera unit to which the fall prevention wire is to be mounted shall be at least Ø 4.1 mm and not larger than Ø 6.5 mm, and its external diameter shall not be larger than Ø12 mm.
- When mounting the fall prevention wire to the base, be sure to use the M4 screws mounted on the base.



Handling camera

Note:-

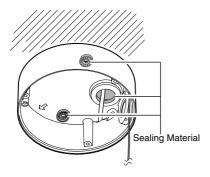
 When mounting the base to the ceiling, or when connecting the cable of the camera unit, pay enough attention to the fall of each part.

Precautions for proper installation

Precautions regarding water-proof and dust-proof

Fill the hole with sealing material

Fill the piping hole as well as the 2 mounting holes mounted with screws using a sealing material.



Memo:-

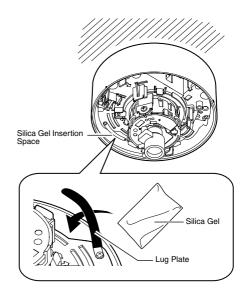
• Use GE silicon or its equivalents as the sealing material.

Note:-

 If the piping hole and the 2 mounting holes mounted with screws are not filled with sealing material completely, water or vapor may enter the holes causing the lens and dome cover to fog. Make sure that these holes are completely filled.

Inserting the silica gel supplied

Take out the silica gel from the aluminum package, insert it into the silica gel insertion space of the camera unit and fasten using the lug plate.



Memo:-

- During reconnection or re-installation after repair or maintenance, make sure to replace the silica gel with a new one.
- Consult your nearby JVC's dealer on the replacement procedures. Serial number of part to be replaced: Use a LW40500-001A silica gel.

Note:-

- When mounting is performed on a rainy day, make sure that rain water does not enter this unit.
- Make sure to use the silica gel supplied. Failure to do so may cause the camera lens and dome cover to fog.
- If the angle of view is not adjusted immediately after mounting the camera, insert the silica gel after adjustment is completed. The silica gel loses its effect if it is exposed to the air for a prolonged period of time.

Precautions for proper installation (continued)

Precautions regarding water-proof and dust-proof (continued)

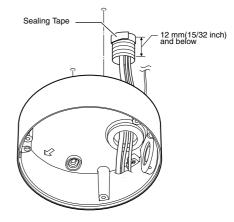
- Precautions when mounting the dome cover
- Make sure that the dome cover is firmly fastened.
 Otherwise, the humidity level may rise, which may result in fogging and even falling of the cover.
- Ensure that the fall prevention wire of the dome cover is not caught in the space between the dome cover and base. Failing to do so may cause the dust-proof and water-proof features to malfunction.



Binding the sealing tape.

(When mounting the camera using the pipe)

Bind at least 2 layers of the sealing tape to the joint of the pipe (point where the thread of the piping hole coincides with the screw hole of the pipe).



Dust-proof performance

 Although this unit is IP66-compliant, waterproof under all kinds of environment is not guaranteed.

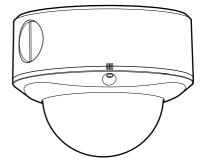
JVC



DOME CAMERA

TK-C215VP4

INSTRUCTIONS



For Customer Use:

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

Model No. TK-C215VP4

Serial No.

LST0509-001A

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Safety Precautions





Attention:

This symbol is only valid in the European Union.

Information for Users on Disposal of Old Equipment [European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

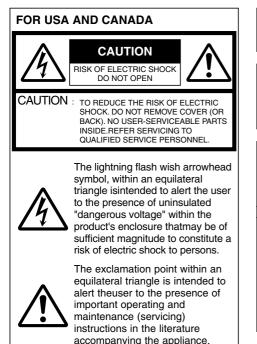
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users)

If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

[Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.



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 numerique de la Class Best conforme a 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 UNDESIRED OPERATION.

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Commany of Japan Limited.is: JVC Technology Centre Europe GmbH P.O.Box 10 05 52 61145 Friedberg Germany

Safety Precautions (continued)

- The unit is to be powered by a DC 12 V or an AC 24 V power supply.
- The unit is to be powered by a UL Listed DC 12 V or an AC 24 V power supply. (For U type)
- The AC 24 V and 12 V DC power supply shall conform to the following: Class 2 only (For USA), Isolated power supply only (For Europe).
- This installation should be made by a qualified service person and should conform to all local codes.
- This installation shall be in accordance with the National Electrical Code, ANSI/NFPA 70.
- Any Mention in this manual of Alarm inputs have not been evaluated by UL to be used for Burglar Alarm Functionality.
- When mounting this unit to the ceiling or wall, mount it to a secure location where it can support the mass of this unit. When mounting to an insecure location, make sure to carry out reinforcement of the ceiling or wall before installation.
- The rating label is adhered to the bottom surface of the camera unit.
- The camera unit may fall if the mounting screw or piping is not properly tightened. Ensure that the screws and nuts are properly tightened.
- 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.
- Do not install the camera near lighting equipment with a high temperature, such as spotlights. Doing so may cause malfunction or fire.

- Before starting an important recording, be sure to perform a test recording in order to confirm that a normal recording is possible.
- We will not provide any compensation whatsoever for the contents to be recorded or loss of opportunities when recording is not properly performed due to malfunction of the video camera, VTR, hard disk recorder or video tape.
- Before touching the camera unit, make sure to touch the metal surface of the [MONITOR] terminal to discharge any static electricity from your body. Static electricity may cause the camera to malfunction.

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.
- 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. (subse 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.



Slots and openings in the cabinet and the back or bottom are pro-vided 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.**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 form the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 11.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.
- 12. Follow all warnings and instructions marked on the appliance.
- 13.Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 14. 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.
- 15.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.
- **16.**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.
- 17. 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.
- **18.**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.

PORTABLE CART WARNING (symbol provided by RETAC)

Introduction

Thank you for purchasing this product. (These instructions are for: TK-C215VP4U/TK-C215VP4E.)

Before beginning to operate this unit, please read the instruction manual carefully in order to make sure that the best possible performance is obtained.

Characteristics

Excellent dust-proof and water-proof performance

With the dust-proof and water-proof structure, it can be installed outdoor directly as it will not be affected by the rain. (IP66 specification)

(IP66 specification)

Realizing a High Picture Quality

This camera realizes 540 TV lines and S/N50 dB by employing a highly sensitive CCD with 380,000 pixels (U type)/440,000 pixels (E type) and a high-resolution video processing circuit.

Enlarged Shooting Range

The adjustment range of the shooting direction is wide and mounting of the camera to the wall is possible with the employment of 3 axis rotation mechanism.

Non Camera-Like Design

Dome-type design allows application in various locations.

■ High Magnification Varifocal/Zoom Lens

The built-in x3.6 varifocal lens enables detailed supervision.

Easy DAY & NIGHT Feature

A Easy DAY & NIGHT feature is available, which switches automatically to a black-and-white image when the object is dark. This is useful for supervision in a dark environment. This instruction manual covers total 2 different models in common as follows: TK-C215VP4U/TK-C215VP4E

In this manual, each model number is described without the last letter (U/E) which means the shipping destination. (U: NTSC, E: PAL)

Only "U"models (TK-C215VP4U) have been evaluated by UL.

How to Use This Manual

Characters and symbols used in this manual

- Note : Points to pay attention to during operation.
- Memo : Details for reference, such as functions or constraints during use.
- Pages or items to refer to.
- All product names that appear in this document are the trademarks or registered trademarks of their respective companies. Marks and symbols such as [™], [®] and [©] do not appear in this document.

Table of Contents

Introduction

Safety Precautions
Characteristics
Table of Contents
Precautions for proper use of this product
Name of Parts
Camera
Camera (Interior)1
Setting the Lens and Switches 12

Installation and Connection

System Example 14
About Connection Cables 15
Video signal cables 15
DC 12 V or AC 24 V
power supply cable 15
Procedures from Connection to Setting 16
Setting the switches 17
Mounting the base 17
Cable Connection 19
Mounting the camera unit 20
Adjusting the video image
Mounting the test monitor 22
Adjusting the shooting direction of the
camera 22
Adjusting the angle of view,
focus and brightness 23
Mounting the inner dome 24
Mounting the dome cover 24
Mounting the camera using
the electrical box 25
Mounting the camera using the pipe 26
Mounting the camera using the piping hole at the bottom surface of the base 26
Mounting the camera using the piping hole at the side surface of the base 27
White-spot correction
Others

Specifications	 20
Specifications	 29

Precautions for proper use of this product

Storage and Location of Use

- Do not install this unit at the following locations.
- Places that are exposed to vapor or oil, such as kitchens.
- Places that exceed the ambient temperature (-10 °C to 50 °C)
- Places at which corrosive gases are emitted
- Places at which radiation or X-rays and strong radio waves or magnetism are emitted
- Places that are subject to vibration
- Using this unit or cables connected to this unit at places at which strong radio waves and magnetism are emitted (e.g. near a radio, TV, transformer or motor) may give rise to noises in the image and changes in its color.
- Do not install this unit at a place that is directly exposed to cold air or near the outlet of an air-conditioner. The dome cover may become foggy when there is a drastic change in temperature.
- Although this unit is IP66-compliant, waterproof under all kinds of environment is not guaranteed.

Others

- This unit comes with a built-in AGC circuit. When using this unit with the AGC function turned on, the sensitivity increases automatically at a dark place and the screen may appear grainy. This is not a malfunction.
- When using this unit in the White Balance ATW (automatic tracking) mode, the color tone may differ slightly from the actual color according to the condition of the object due to the principle of the automatic tracking white balance circuit. This is not a malfunction.
- When shooting an object with high brightness (lamps, etc.), vertical lines may appear in the image on the screen (smear phenomenon) and bleeding may be found around the high brightness object (blooming phenomenon). These are due to the characteristics of the CCD and not malfunctions.
- Turning "ON" the simple DAY & NIGHT switch switches the image to black-and-white at a dark place. Sensitivity increases in the case of black-and-white images. The screen may

therefore appear grainy and white spots may increase. When switching between colored and black-and-white images, the bright portions of the screen are enhanced and the clarity of the screen may deteriorate. This is not a malfunction.

- When the source voltage cuts off or drops during lightning or upon turning on the airconditioner, distortion or noise may occur in the image.
- When this unit is moved from a cold to a warm place, dew condensation may occur, which may result in malfunctioning. In this case, leave this unit at room temperature for about 1 hour before turning on the power.
- The rotation angle of this unit has been enlarged to enable installation at a wide variety of locations. When the zoom function of the lens is set to Wide and the tilt angle set close to ±70°, a portion of this unit may be visible on the shooting screen depending on the rotation angle.
 When this occurs, adjust the angle of view accordingly. (Imp. Pa. 22)
- To prevent fogging due to changes in temperature, make sure to insert the supplied silica gel into the designated location.
 (IN) Pg. 21)
- When the supply voltage of the camera is low, the input protection circuit within the camera may be triggered and the power of the camera may turn off automatically. Make sure to use a power supply and voltage for the camera that is within -10 % of the rated voltage.
- All Interconnecting Equipment must be UL Listed.

Maintenance

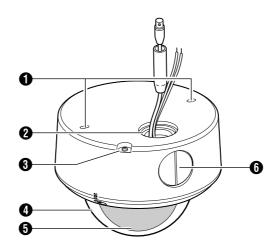
- Turn off the power before performing maintenance.
- Clean the dome cover using a lens cleaning cloth (or soft cloth). Wiping it with thinner or benzene may melt the surface or cause it to fog. For tough stains, wipe using a cloth that is dipped into a neutral detergent diluted with water, followed by wiping with a dry cloth.

Energy Conservation

• When not in use, turn off the power of the system to save energy.

Name of Parts

Camera



$\textcircled{1} Mounting hole \times 2$

Use these when mounting the camera to the ceiling, wall or electrical box. (INF Pg. 17)(INF Pg. 25)

Note:-

• To mount the camera using the electrical box, consult the dealer from which this product is purchased or any nearby JVC dealer.

Hole for Connecting Cable and Piping

This is a hole for drawing out the connecting cable.

This hole can also be used to mount directly to pipes. (Piping hole: G3/4-14UNC) (INGROUPS Pg. 26)

3 Mounting Screw for Fall Prevention Wire

Use this screw when mounting the fall prevention wire to this unit. (Fall prevention wire is not supplied with this product.)

Note:-

• Connect the fall prevention wire to prevent this unit from falling accidentally. The camera unit may fall if this wire is not connected.

Dome Cover

Inner Dome

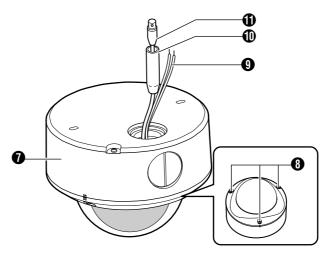
Set the switches as well as angle of view before mounting the camera. (INP Pg. 17)

Plug for Piping Hole and Piping Hole (Side)

Use this plug when mounting directly to pipes from the side. The plug for piping hole is mounted to this hole by default. (I Pg. 27)

Name of Parts (continued)

Camera (continued)



Base

Mount the base to the ceiling, wall or electrical box before mounting the camera. (ING Pg. 17)(ING Pg. 25)

Fastening Screw for Dome Cover

This is a fastening screw for the dome cover. Use a supplied wrench to fasten/unfasten the screw.

AC 24 V/DC 12 V Power Supply Wire

DC 12 V Input: Red (+12 V), Black (GND) AC 24 V Input: Nonpolar

Note:-

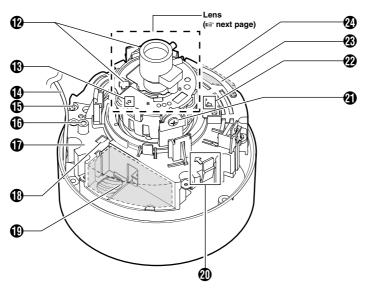
- To mount a heater (sold separately: KA-ZH215) to this unit, make sure to connect to an AC 24 V supply during use.
- The AC 24 V power supply should conform to the following: U-type: Class 2 only E-type: Isolated power supply only
- For inquiries on the heater, consult your nearby JVC dealer.

Protection Cover

Upon connecting the coaxial cable, protect it by insulating the metal part of the BNC connector **①** from the ceiling structure.

Video signal output connector (BNC)
 Pg. 15)

Camera (Interior)



Rotation Knob

Rotate the lens unit to adjust the inclination of the image. (ISP Pg. 22)

(B) Rotation Center Mark (187 Pg. 22)

Fall Prevention Wire

Use this to connect the base () to the dome cover ().

Camera Unit Fastening Screw × 2

Use this to fasten the camera unit $\mathbf{0}$ to the base $\mathbf{0}$.

To remove (🖙 Pg. 17)

[MONITOR]Monitor Terminal (Pin Jack)
 (1) Pg. 22)

Camera

Connector for Power Supply of Heater

This is a power connector for use when the heater (sold separately: KA-ZH215) is mounted.

Space for Heater

Camera Unit Fastening Lug × 2

This lug is used for fastening the camera unit to the base. When removing the base, press toward the direction indicated by the arrow to release. (INF Pg. 17)

Tilt Fastening Screw

Upon adjusting the angle of view, tighten the screw to ensure that camera's angle of view does not go out of alignment when it is used at a location with strong vibration. (For Pg. 22)

Shooting Direction Mark

Install the camera by aligning the shooting direction with the arrow mark.

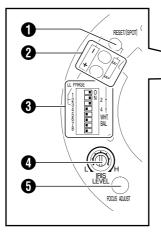
Lug Plate

This plate is used for fastening the silica gel. (Provide the selica gel.)

Space for Silica Gel (187 Pg. 21)

Setting the Lens and Switches

Set the video setting switches on the camera unit before mounting it. To set the switches, use a fine-tipped screwdriver.



[RESET/SPOT] RESET/SPOT button

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

• When the 2 [SELECT] 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.

 When setting to SPOT: When this button is pressed, white spots are corrected.

For instructions on correcting white spots, see "White-spot correction" (R Pg. 28).

[R/B,+/-] 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 2 [SELECT] 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.

Function selection switches

Function Selection Switch Settings Chart (Characters in bold indicate factory settings)

OFF I

1 AGC

3 SYNC

5 BLC

4 WHT.BAL

6 DAY/NIGHT

8 RESET/SPOT

RESERVED

2 SELECT OFF

PHASE

11

ATW

OFF

OFF

RESET

1. [AGC] 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)

ON

ON

WHT.BAL.

INT

MANU

ON

ON SET TO OFF

SPOT

6

2. [SELECT] WHT.BAL./PHASE setting switch.

WHT.BAL.:

The **2** [R/B,+/-] buttons are used as [R/B] adjustment buttons. PHASE:

The 2 [R/B,+/-] buttons are used as [+/-] adjustment buttons. (Default setting: WHT.BAL.)

3. [SYNC] 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 60 Hz or 50 Hz 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.

U type: 60 Hz only E type: 50 Hz only (Default setting: INT)

4. [WHT.BAL.] ATW/MANUAL selection switch.

For selecting whether to adjust the white balance automatically or manually. When the setting is changed from manual to ATW, the setting values in the manual mode will be reset. The camera switches to the same mode as with pressing the [RESET] button.

(Default setting: ATW)

Memo:-

 The white balance of this camera is preset to use under sunlight or halogen lamps, and may not be properly adjusted when used under artificial lights such as fluorescent lights.

5. [BLC] Backlight compensation switch.

When the object is placed against the light, setting this to "ON" increases the iris aperture by 1 stop and the object will appear clearer.

(Default setting: OFF)

6. [DAY/NIGHT] 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)

Memo:-

- When this item is set to "ON", the AGC feature will automatically be set to "ON" regardless of the [AGC] Switch 1 setting.
- 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.

• Sensitivity increases in the case of blackand-white images. The screen may therefore appear rougher and white spots may increase.

7. [RESERVED]

Not used. Ensure to set this to "OFF" before using the camera. (Default setting: OFF)

8. [RESET/SPOT] RESET/SPOT CORRECTION selection switch.

RESET:

The [RESET/SPOT] button is used as a [RESET] button.

SPOT:

The [RESET/SPOT] button is used as a [SPOT] button. (# Pg. 28) (Default setting: RESET)

[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. To darken image: Counterclockwise (L side) To brighten image: Clockwise (H side)

Memo:-

 Prior to adjusting the aperture level, ensure to set the [AGC] Switch 1 of the function selection switch (3) to "OFF". Otherwise, when the level is turned too far toward L, the AGC function activates increasing sensitivity and the picture may look uneven.

[FOCUS ADJUST] focus adjustment button

Use this to adjust the lens focus. Upon pressing, the lens aperture will open up for about 30 seconds such that the depth of field becomes shallower, thus enabling focus to be easily adjusted. (I Pg. 23)

Memo:-

• The electronic shutter functions automatically upon pressing the focus adjustment button and the screen may flicker. However, this is not a malfunction.

6 Focus adjustment ring

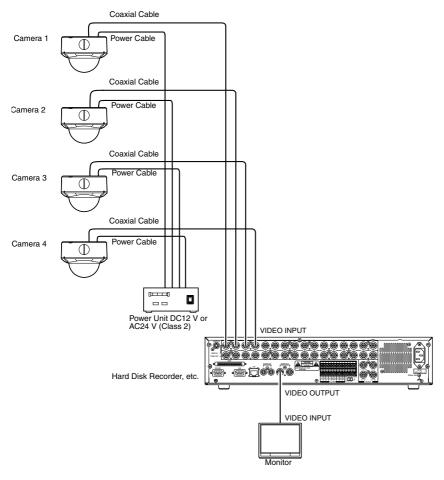
Move this to the left/right to adjust the focus.

Zoom adjustment ring

Move this to the left/right to adjust the field angle.

System Example

- Turn off the power of devices to be used before connecting the cables.
- Read through the "Instruction Manual" of the devices to be used carefully before connecting.



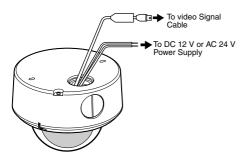
Memo:-

- When mounting the heater (sold separately: KA-ZH215), make sure to connect the wire to an AC 24 V power supply during use.
- The AC 24 V power supply should conform to the following: U-type: Class 2 only E-type: Isolated power supply only

About Connection Cables

The maximum connection distance varies with the type of cable used. Please refer carefully to the table for each cable during connection.

* Be sure to turn off the power of devices before connecting cables.



Note:-

• When mounting the heater (sold separately: KA-ZH215), make sure to connect the wire to an AC 24 V power supply during use.

Video signal cables

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

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

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 12 V/AC 24 V 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)		ø 1.0 mm (AWG18)	ø 1.6 mm (AWG14)	ø 2.0 mm (AWG12)
Maximum extension (Without heater)	DC12V	50 m (160ft)	140 m (450ft)	220 m (720ft)
	AC24V	130 m (420ft)	350 m (1100ft)	550 m (1800ft)
Maximum extension (With heater)	AC24V	40 m (130 ft)	120 m (390 ft)	180 m (590 ft)

Note:-

 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. When the voltage is low, the protection circuit within the camera may be triggered and the power of the camera may turn off automatically.

- 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 product shall be powered by Class 2 only.
- The AC 24 V power supply should conform to the following:

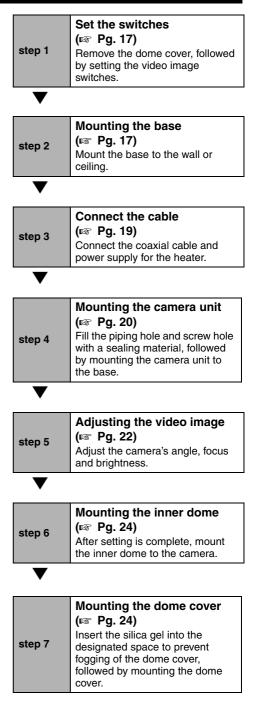
U-type: Class 2 only E-type: Isolated power supply only

Procedures from Connection to Setting

Follow the procedures below to connect/set this unit.

Turn off the power of devices to be used before connecting the cables.

- Before touching the camera unit, make sure to touch the metal surface of the [MONITOR] terminal to discharge any static electricity from your body. Static electricity may cause the camera to malfunction.
- When mounting the base to the ceiling, or when connecting the cable of the camera unit, pay enough attention to the fall of each part.



Setting the switches

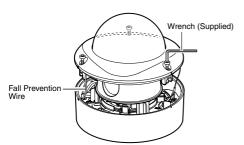
Remove the dome cover, followed by setting the video image switches.

1. Removing the dome cover

Remove the dome cover by unfastening the 3 fastening screws using the wrench supplied.

Memo:-

• The dome cover and base are connected with fall prevention wire.



2. Removing the inner dome

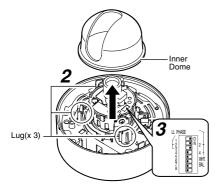
The inner dome is fastened using lugs at 3 different positions. Grasp the inner dome and remove it from the lugs.

Note:-

 Before touching the camera unit, make sure to touch the metal surface of the [MONITOR] terminal to discharge any static electricity from your body. Static electricity may cause the camera to malfunction.

3. Setting the switches

Set the switches for video images. (\mathbb{R} Pg. 12)

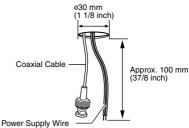


Mounting the base

Remove the camera unit from the base and mount the base to the ceiling or wall. When mounting to a wall, follow the procedures by replacing areas indicated as [ceiling] by [wall] accordingly.

Setup

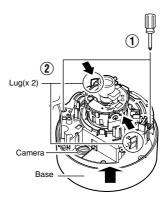
Drill mounting holes (ø30 mm, 1 1/8 inch) using the template supplied when necessary.



(AC 24 V only when heater is in use)

1. Removing the camera unit from the base

- (1) Unfasten the 2 fastening screws from the camera unit using a screwdriver.
- (2) Press the 2 lugs inwards to remove the camera unit from the base.



Mounting the base (continued)

2. Mounting the fall prevention wire to the base (fall prevention wire is not supplied)

Remove the fastening screw for the fall prevention wire and mount the fall prevention wire.

Note:-

- Pay attention to the length, strength, routing and material (insulation properties) of the fall prevention wire used.
- The internal diameter of the rounded portion on the camera unit to which the fall prevention wire is to be mounted shall be at least ø 4.1 mm and not larger than ø 6.5 mm, and its external diameter shall not be larger than ø12 mm.

3. Mounting the fall prevention wire to a firm place

To prevent the camera from falling, mount the base to a firm place using the fall prevention wire.

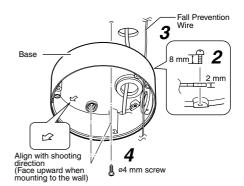
4. Mounting the base

Mount the base by aligning the shooting direction mark on the inner side of the base (\hat{v}) to the shooting direction.

When mounting to the wall, mount it with the shooting direction mark($\hat{1}$) facing upward. Do so by using 2 Ø4 mm mounting screws.

Note:-

- When mounting to the wall, make sure to mount it with the shooting direction mark (¹)facing upward. Failure to do so may cause the fall prevention wire of the dome cover to come off easily.
- ø4 mm screws are not supplied with this product. Use appropriate type of screw according to the material of the mounting place.



Cable Connection

1. Connecting the coaxial cable (Pg. 15)

Lower the protection cover and connect the connectors. Upon connecting, cover the connectors using the protection cover.

2. Connecting the AC 24 V/DC 12 V power supply wires

Note:-

 To mount a heater (sold separately) to this unit, make sure to connect it to an AC 24 V supply during use.

3. Binding the AC 24 V/DC 12 V power supply wires with insulating tape

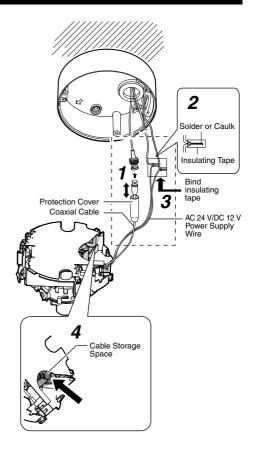
Make sure to bind the connecting portions of AC 24 V/DC 12 V power supply wires with insulating tape.

4. Storing cables

Upon connecting, push the connector into the cable storage space of the camera unit.

Note:-

- When mounting the camera to the electrical box, push the connector into the electrical box.
- While the camera unit is disconnected from the base, be extremely careful not to drop the camera unit.

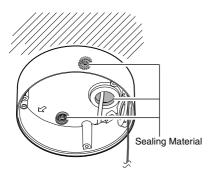


Mounting the camera unit

Fill the piping hole and mounting hole with a sealing material, mount the camera unit to the base, and insert the silica gel.

1. Fill the hole with sealing material

Fill the piping hole as well as the 2 mounting holes mounted with screws using a sealing material.



Memo:-

• Use GE silicon or its equivalents as the sealing material.

Note:-

 If the piping hole and the 2 mounting holes mounted with screws are not filled with sealing material completely, water or vapor may enter the holes causing the lens and dome cover to fog. Make sure that these holes are completely filled.

2. Mounting the camera unit to the base

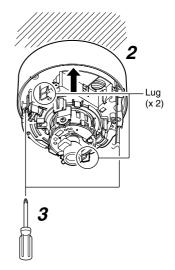
Press the 2 lugs until a "click" sound is heard.

Note:-

 Mount such that the cables and fall prevention wire of the dome cover are not clamped.

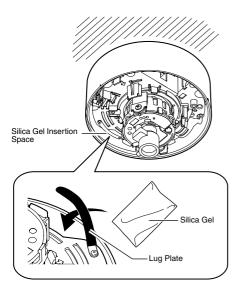
3. Fastening the 2 fastening screws of the camera unit

Tighten the 2 fastening screws of the camera unit using a screwdriver to fasten the camera.



4. Inserting the silica gel supplied

Take out the silica gel from the aluminum package, insert it into the silica gel insertion space of the camera unit and fasten using the lug plate.



Memo:-

- During reconnection or re-installation after repair or maintenance, make sure to replace the silica gel with a new one.
- Consult your nearby JVC's dealer on the replacement procedures.
 Serial number of part to be replaced: Use a LW40500-001A silica gel.

Note:-

- When mounting is performed on a rainy day, make sure that rain water does not enter this unit.
- Make sure to use the silica gel supplied. Failure to do so may cause the camera lens and dome cover to fog.
- If the angle of view is not adjusted immediately after mounting the camera, insert the silica gel after adjustment is completed. The silica gel loses its effect if it is exposed to the air for a prolonged period of time.

Adjusting the video image

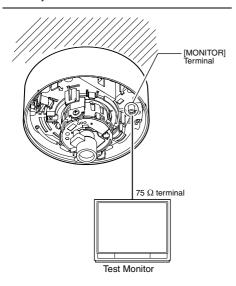
Upon mounting the camera, adjust the images while checking the actual image.

Mounting the test monitor

Connect the [MONITOR] terminal of this unit to the test monitor to adjust the camera's shooting direction, angle of view and focus.

Memo:-

 Before setting, ensure to turn on the power of the system.

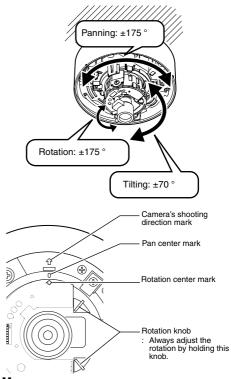


Adjusting the shooting direction of the camera

The camera unit can be panned, tilted or rotated. Adjust the camera in the direction of the object.

Note:-

- Before touching the camera unit, make sure to touch the metal surface of the [MONITOR] terminal to discharge any static electricity from your body. Static electricity may cause the camera to malfunction.
- Before adjusting the shooting direction of the camera, ensure that the pan fastening screw is loosened. Moving the lens unit without loosening the pan fastening screw may damage the lens unit.



Memo:

- Panning/rotation of ±175 ° is possible from each of the camera unit's shooting direction mark, pan center mark and rotation center mark. When adjusting the rotation, do not hold the lens unit. Always adjust by holding the rotation knob.
- When using the camera at locations with strong vibration after the angle of view is adjusted, stabilize by tightening the tilt fastening screw to prevent the camera's angle of view from going out of alignment. (INST Pg. 11)

Note:

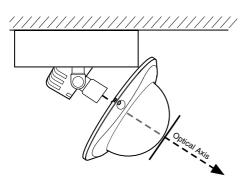
- Moving the camera beyond its adjustable range may cause failure in maintaining the performance of this camera.
- As this camera has a wide tilt/rotation range, a part of this camera may appear on the screen depending on the angle of view and orientation.
- Do not hold the lens unit when adjusting the direction of the camera. Applying force on the lens unit may damage it.

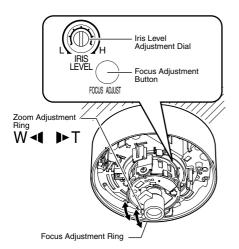
Adjusting the angle of view, focus and brightness

Upon determining the imaging direction, adjust the angle of view, focus and brightness accordingly.

Note:-

- When adjusting the focus, make sure to cover the dome cover over the lens. The dome cover of this unit is thick. Therefore, if the focus is not adjusted with the dome cover covered, this may cause the lens to go out of focus when the dome cover is mounted.
- When adjusting the focus, cover the dome cover such that its center is perpendicular to the light axis of the lens, and make sure that the image is not distorted. (See illustration below)





Adjusting the angle of view

Loosen the fastening screw for the zoom adjustment ring and move the ring to the left/ right to adjust the image.

Adjusting the focus

Press the focus adjustment button. The iris will be released for about 30 seconds. Loosen the fastening screw for the focus adjustment ring and move the ring to the left/right to align the focus.

Memo:-

- Set by repeating [Adjusting the angle of view] and [Adjusting the focus] for 2 to 3 times. After adjustment is completed, fasten by tightening each of the fastening screws.
- The electronic shutter functions automatically upon pressing the focus adjustment button and the screen may flicker. However, this is not a malfunction.

Adjusting the brightness

Usually, adjustment of the brightness is not required. When this is necessary, adjust the iris level accordingly.

To darken	: Anti-clockwise direction (L side)
To brighten	: Clockwise direction (H side)

Memo:-

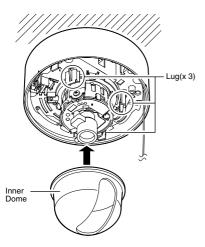
- Do not perform iris level adjustment within 30 seconds after pressing the focus adjustment button. (It cannot be adjusted correctly as the electronic shutter mode is activated.)
- Before adjusting the iris level, set the [AGC] switch of selection switch (3) to "OFF". If turning too much to L side when not set to "OFF", AGC feature will activate causing the sensitivity increases and the picture quality may appear grainy.

Mounting the inner dome

After setting is complete, mount the inner dome to the camera.

1. Mounting the inner dome

Mount the inner dome to the 3 lugs.



Note:-

- Mount the inner dome such that it does not cover the lens.
- When mounting the inner dome, make sure not to move the position of the lens. Doing so may cause the preset angle of view to go out of alignment.

Mounting the dome cover

1. Cleaning the dome cover

Before mounting, remove any dust or dirt from the dome cover.

Memo:-

• Dirt that is not removed from the cover before mounting may appear on the camera's image.

Memo:-

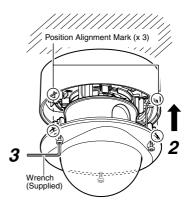
• Do not apply excessive force to the dome cover such as stretching it.

2. Mounting the dome cover to the base

Mount the dome cover by aligning the 3 position marks on the base with the dome cover.

3. Fastening the dome cover

Fasten by tightening the 3 fastening screws of the dome cover using the wrench supplied.



Note:-

- Make sure that the dome cover is firmly fastened.
 Otherwise, the humidity level may rise, which may result in fogging and even falling of the cover.
- Ensure that the fall prevention wire of the dome cover is not caught in the space between the dome cover and base. Failing to do so may cause the dust-proof and waterproof features to malfunction.



Mounting the camera using the electrical box

Mounting the base to the electrical box.

1. Setting the switches (187 Pg. 17)

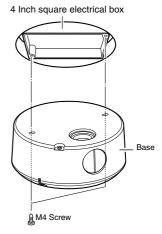
2. Removing the camera unit from the base (187 Pg. 17)

3. Mounting the base to the electrical box

Mount the base to the electrical box by using the 2 mounting holes and 2 M4 screws.

Memo:-

• M4 screws are not supplied with this product.



4. The following procedures are same as normal mounting

- Cable Connection (187 Pg. 19)
- Mounting the camera unit to the base
- (🖙 Pg. 20)
- Adjusting Images (187 Pg. 22)
- Mounting the inner dome (188 Pg. 24)
- Mounting the dome cover (
 Pg. 24)

Mounting the camera using the pipe

Use the piping hole to mount the camera.

Mounting the camera using the piping hole at the bottom surface of the base

1. Setting the switches (137 Pg. 17)

2. Removing the camera unit from the base. (INP Pg. 17, step 1)

3. Mount the fall prevention wire to the base (\mathbb{R} Pg. 18)

4. Binding the sealing tape

Bind at least 2 layers of the sealing tape to the joint of the pipe (point where the thread of the piping hole coincides with the screw hole of the pipe).

5. Mounting the base to the pipe

Screw the base into the pipe by turning the base in the clockwise direction. (Piping hole: G3/4-14 UNC)

Note:-

 When screwing in the pipe, make sure that not more than 12 mm (15/32 inch) of the pipe is being screwed in. Failure to do so may damage the internal components of this unit.

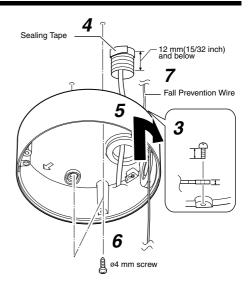
6. Fastening the base to the ceiling

Fasten the base to the ceiling firmly using 2 \wp M4 mm screws.

Note:-

- ø4 mm screws are not supplied with this product. Use appropriate type of screw according to the material of the mounting place.
- Check to ensure that there is no space between the ceiling and base.

7. Mounting the fall prevention wire to a firm place (\mathbb{IS} Pg. 18)



8. The following procedures are same as normal mounting

- Cable Connection (INP Pg. 19)
- Mounting the camera unit to the base (IPP Pg. 20)
- Adjusting Images (I Pg. 22)
- Mounting the inner dome (
 Pg. 24)
- Mounting the dome cover (
 Pg. 24)

Mounting the camera using the piping hole at the side surface of the base

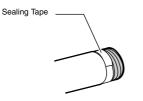
If the camera cannot be mounted directly to the ceiling, mount it to the pipe using the piping hole at the side surface of the base.

1. Setting the switches (Pg. 17)

2. Dismantle the camera unit from the base and mount the fall prevention wire (127 Pg. 17)(127 Pg. 18)

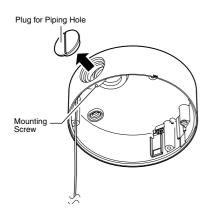
3. Binding the sealing tape

Bind at least 2 layers of the sealing tape to the joint of the pipe (point where the thread of the piping hole coincides with the screw hole of the pipe).



4. Removing the plug for the piping hole of the base

Loosen the mounting screw (M3 x 6 mm) using a slotted screwdriver and pull out the plug at the side of the base.



5. Mounting the removed plug for the piping hole to the piping hole at the bottom surface of the base

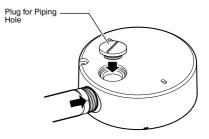
6. Mounting the base to the pipe

Screw the pipe into the piping hole at the side of the base.

(Piping hole: G3/4-14 UNC)

Note:-

 When screwing in the pipe, make sure that not more than 12 mm (15/32 inch) of the pipe is being screwed in. Failure to do so may damage the internal components of this unit.

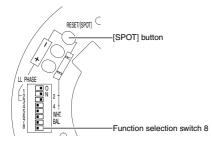


${\bf 7.}$ The following procedures are same as normal mounting

- Cable Connection (I Pg. 19)
- Mounting the camera unit to the base (IPS Pg. 20)
- Adjusting Images (187 Pg. 22)
- Mounting the inner dome (
 Pg. 24)
- Mounting the dome cover (188 Pg. 24)

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. 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. Set the function selection switch 8 to [SPOT]. (🖙 Pg. 13)

4. Press and hold the SPOT CORRECTION button for more than 2 seconds.

• White-spot correction will start. Correction may take several seconds for completion.

Memo:-

- Maximum correction: 32
- The white-spot correction feature of this unit does not guarantee the correction of all white 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

Camera

Signal system:

U type	: Based on NTSC standard
E type	: Based on PAL standard

Scanning frequencies

U type	: 15.734 kHz (Horizontal),
	59.94 Hz (Vertical)
E type	: 15.625 kHz (Horizontal),
	50 Hz (Vertical)

Image device: 1/4" IT CCD

Effective picture elements:

: 380,000 pixels,
768 (H) x 494 (V)
: 440,000 pixels,
752 (H) x 582 (V)

Sync system

: Line lock/Internal

Video S/N:

: 50 dB (AGC OFF, white 50 % output)

Horizontal resolution:

: 540 TV lines (Center, Typ.)

Minimum illumination: (Typical)

U type:

Color mode : 2.5 lx (Standard, AGC ON, 50 IRE, WIDE end) : 0.8 lx (Standard, AGC ON, 25 IRE, WIDE end)

Black and White mode

: 1.4 lx (Standard, AGC ON, 50 IRE, WIDE end) 0.4 lx (Standard, AGC ON, 25 IRE, WIDE end)

E type:

Color mode : 2.9 lx (Standard, AGC ON, 50 IRE, WIDE end) : 0.9 lx (Standard, AGC ON, 25 IRE, WIDE end)

Black and White mode

: 1.7 lx (Standard, AGC ON, 50 IRE, WIDE end) 0.6 lx (Standard, AGC ON, 25 IRE, WIDE end)

White balance:

: ATW/Manual (Switchable) Color temperature range 2,300 K to 10,000 K

Backlight compensation

: ON/OFF (Switchable)

Easy DAY & NIGHT

: ON/OFF (Switchable)

Lens

Focal length

: 2.8 mm to 10 mm (variable)

Zoom ratio

: Approx. 3.6

Maximum aperture

: F1.3 (f = 2.8 mm) to F3.0 (f = 10 mm)

Angle adjustment range

Pan	:±175 °
Rotation	:±175 °
Tilt	: ±70 °

Angle of vision

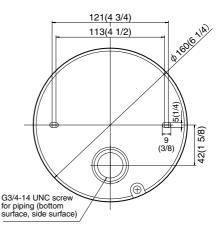
: f = 2.8 mm 73 ° (H) x 54 ° (V) f = 10 mm 20 ° (H) x 15 ° (V)

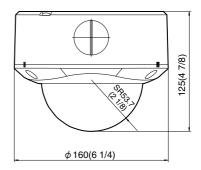
Specifications (continued) General Power supply : AC 24 V \sim 50 Hz/60 Hz DC 12 V **Power consumption** U type : 4.2 W : 23 W (When using KA-ZH215) : 340 mA E type : 1 A(When using KA-ZH215) Ambient temperature : -10 °C to 50 °C (14 °F to 122 °F) (Operation) : 0 °C to 40 °C (32 °F to 104 °F) (Recommended) When using KA-ZH215 : -30 °C to 50 °C (-22 °F to 122 °F) (Operation) : -20 °C to 40 °C (-4 °F to 104 °F) (Recommended) Dustproof/Waterproof : IP 66 Mass : Approx. 1250 g Accessories U type: Instructions 1 Installation Precautions 1 Warranty Card 1 Service Information Card...... 1 Silica gel 1 Wrench 1 Template 1

E type:	
Instructions	•
Installation Precautions	•
Silica Gel	1
Wrench	•
Template	•

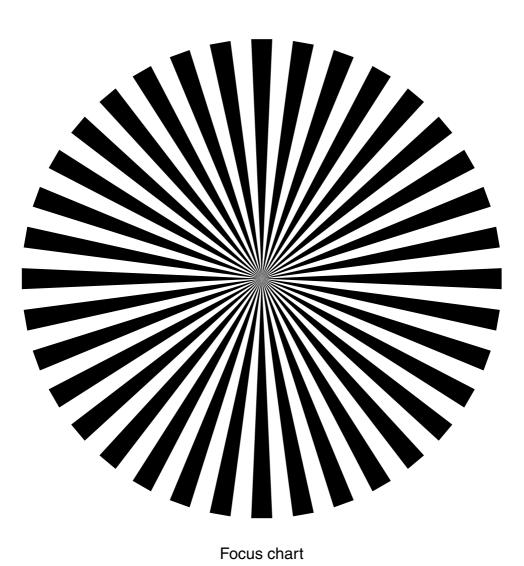
Dimensional Outline Drawing

[Unit: mm (inch)]





* Specifications and appearance of this unit and related products are subject to change for product improvement without prior notice.



Focus chart



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LST0509-001A

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