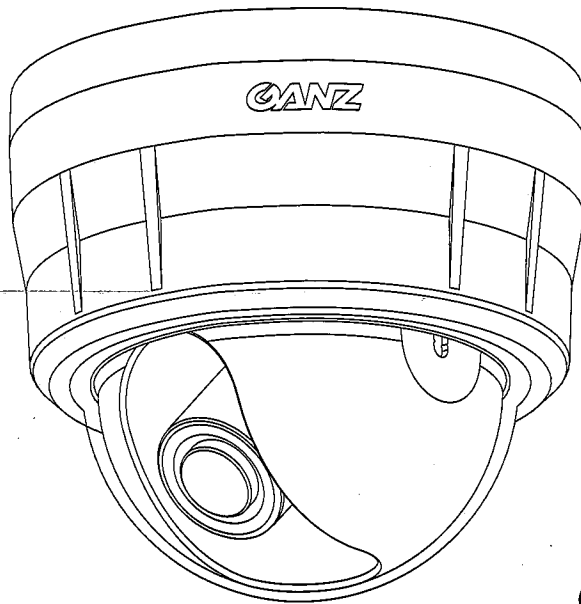


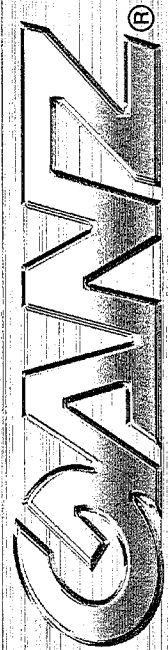
VANDAL RESISTANT IR CAMERA

ZC-DT2312 SERIES

INSTRUCTION MANUAL



Color / Auto Iris
24VAC/12VDC
ZC-DT2312PHA-IR



ENGLISH
中 国 语

Thank you for your purchase of this product. Before operating the product, please read this instruction manual carefully to ensure proper use of the product. Please store this instruction manual in a safe place for future reference.

CONTENTS

PRODUCT FEATURES.....	EG-2
SAFETY PRECAUTIONS.....	EG-2
PARTS DESCRIPTION.....	EG-3
INSTALLATION AND ADJUSTMENT.....	EG-4
Attaching the Unit.....	EG-4
Adjusting the DIP Switch Mode.....	EG-6
Adjusting Camera Angle.....	EG-6
SPECIFICATIONS.....	EG-7

PRODUCT FEATURES

- High resolution surveillance camera with a built-in 1/3-type CCD.
- Integrated vari-focal lens allows for versatile application and easy installation.
- Built-in infrared LED provides a sharp image even in low light environment.
- Surface or embedded installation.
- Manual pan/tilt/rotation mechanism.
- Accept either DC 12V or AC 24V power input.

SAFETY PRECAUTIONS

The installation should be made by a qualified service person and should conform to all local codes.

WARNING

This symbol indicates that there is a possibility of death or damage to operator or others.

To prevent fire or electric shock, do not expose this product to rain or moisture.

CAUTIONS

This symbol indicates that there is a possibility of injury or damage to equipment.

- (1) Use only 24V AC power supply marked class 2 or +12V DC regulated power supply marked class 2.
- (2) To prevent fire or electrical shock, UL listed class 2 wiring should be used for the 12V DC or 24V AC input terminal.
- (3) Be sure to connect each lead to the appropriate terminal. Wrong connection may cause malfunction and / or damage to the video camera.
- (4) Do not attempt to aim the camera at the sun or other extremely bright objects that cause smear to appear irrespective of whether the camera is operating or not. This can damage the CCD (Charge Coupled Device).
- (5) Do not place the camera in the following locations.
 - ① Locations subject to extremely high or low temperatures.
(Operating temperature range: -10°C to +50°C {14°F to 122°F})
(Storage temperature range: -20°C to +60°C {-4°F to 140°F})
 - ② Locations where there are large amounts of water vapor and steam.
- (6) Ensure the location selected is sufficiently strong enough to support the weight of the camera and is free from vibration.
- (7) When this camera is installed near equipment that emits a strong electromagnetic field, some irregularity such as noise on the monitor screen may happen.
- (8) Be sure to use screws suitable for the type of material to which the camera is being mounted.
- (9) Do not allow the camera to be subjected to strong impacts or shocks. The camera could be damaged by improper handling or storage.
- (10) Never attempt to disassemble or modify the camera.
- (11) If an abnormality should occur, immediately turn off the power and consult your dealer.



The CE Marking is a Directive Conformity mark of the European Union (EU).



Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

CORRECTION / 更正

● Instruction Manual Corrections: Please note the following corrections. We apologize for the inconvenience.

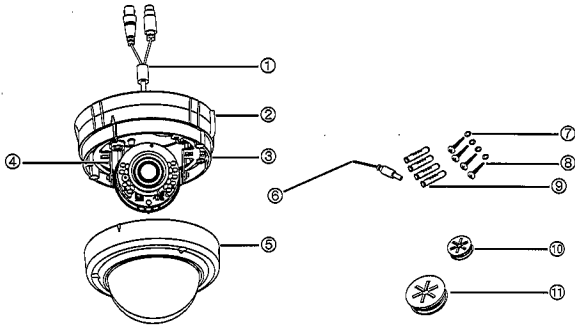
Page	WRONG		CORRECT
EG-3	③ Line Phase Adjustment Volume	-->	③ Not For USE
EG-6	LL/INT-Linelock / Internal (suggest LL)	-->	Internal Only
EG-7	Internal/Line Lock Selectable	-->	Internal
EG-7	External Dimensions	-->	140(φ) x 105(H) mm

● 使用说明书订正：请订正以下内容。非常抱歉因此而造成的任何不便。

页数	(误)		(正)
CN-3	③ 线同步相位调节钮	-->	③ 不可使用
CN-6	电源同步/内同步 (建议电源同步)	-->	仅限内同步
CN-7	内同步/电源同步	-->	仅限内同步
CN-7	外部尺寸	-->	140(φ) x 105(H) mm

PARTS DESCRIPTION

Outside

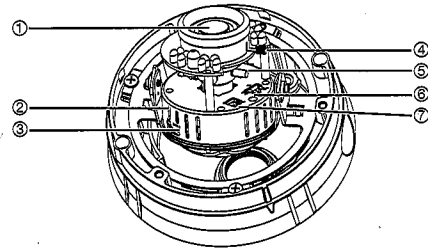


- ① BNC Coaxial Video Cable and Power Lead
- ② Bottom Ring
- ③ Camera Base
- ④ Lens
- ⑤ Dome Cover

Accessories

- ⑥ Additional Power Connector (x 1)
- ⑦ O Ring (x 4)
- ⑧ Self-tapping Screws (x 4)
- ⑨ Plastic Anchors (x 4)
- ⑩ 1/2 inch Rubber Cap (x 1)
- ⑪ 3/4 inch Rubber Cap (x 1)

Inside



- ① Lens
- ② DC Iris Adjustment Volume
- ③ Line Phase Adjustment Volume
- ④ Focus Adjustment Lever
- ⑤ View Angle Adjustment Lever
- ⑥ Mode Setting Switch
- ⑦ Video output connector for service monitor cable

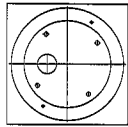
INSTALLATION AND ADJUSTMENT

● Attaching the Unit

Use one of the following methods to attach the unit to your desired location.

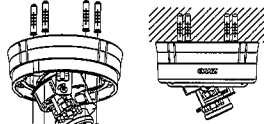
Attaching unit directly on the surface of the ceiling

Step 1: Adhere the guide pattern to the installing surface.

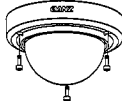


Step 2: Follow the guide pattern and put 4 plastic anchors into the wall.

Step 3: Loosen the screws from top cover.

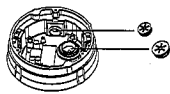


Step 4: Screw the bottom case into the anchors.



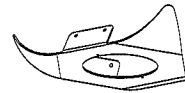
⚠ Attention

- Remember to plug-in 1/2 inch or 3/4 inch rubber cap in conduit holes for dust free purposes when not using conduit pipe.

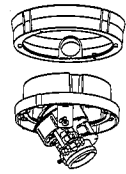


Attaching unit with corner mount

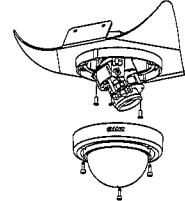
Step 1: Attach corner mount with 2 screws for each wall (corner wall).



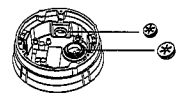
Step 2: Separate camera base and its base ring.



Step 3: Loosen the screws from top cover.



Step 4: Attach camera base with 2 screws on the corner mount.

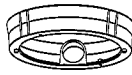


⚠ Attention

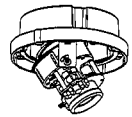
- Remember to plug-in 1/2 inch or 3/4 inch rubber cap in conduit holes for dust free purposes when not using conduit pipe.

Attaching unit with hemispheric cap

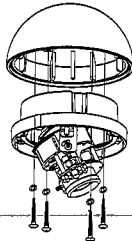
Step1: Separate camera base and its base ring.



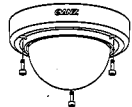
Step2: Loosen the screws from top cover.



Step3: Screw camera base on the hemispheric cap.

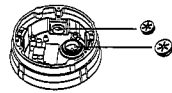


Step4: Attach whole unit at desired location.



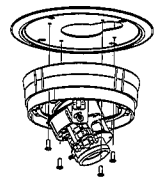
Attention

- Remember to plug-in 1/2 inch or 3/4 inch rubber cap in conduit holes for dust free purposes when not using conduit pipe.



Attaching unit with adapter ring

Step1: Loosen the screws from top cover.

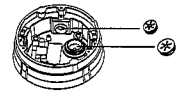


Step2: Screw camera base on the adapter ring and place at desired location.



Attention

- Remember to plug-in 1/2 inch or 3/4 inch rubber cap in conduit holes for dust free purposes when not using conduit pipe.



● Adjusting the DIP Switch Mode

Setting the dip switches

AGC- Automatic Gain Control (suggest ON)

BLC- Back Light Compensation (suggest OFF)

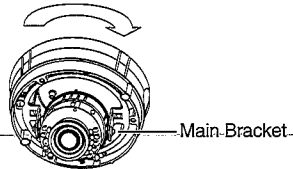
LL/INT- Linelock/ Internal (suggest LL)

Auto D/N- Day and Night Switch (suggest ON)

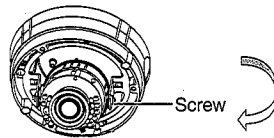
* Turn on the Day/Night mode; the picture will turn black and white under 1.5 lux levels. Turn off the Day/Night; the picture will be always in color.

● Adjusting Camera Angle

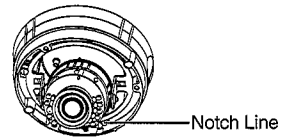
Step1: Rotate the main bracket to adjust the pan angle.



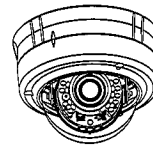
Step2: Loosen the screws on the main bracket and adjust the tilt angle, then tighten the screw again.



Step3: Adjust the lens module to shoot desired scenery.



Step4: Restore the top cover and secure the screws tightly.



Attention

- TP4*31mm screws and 1/4" * 13/8" plastic anchor are recommended for this purpose.

SPECIFICATIONS

Model name	ZC-DT2312PHA-IR	
TV system	PAL	
Scanning system	2:1 Interlace	
Image sensor	1/3 Type Interline transfer CCD	
Effective elements	752(H) x 582(V)	
Scanning frequency	15.625kHz (H) / 50Hz(V)	
Video output	1.0V p-p / 75Ω	
Horizontal resolution	More than 480TVL	
Min. Illuminance	0 Lux (B/W Mode - at IR LED on)	
S/N ratio	More than 50dB (AGC OFF)	
Gamma characteristic	0.45	
IR Illumination	18 IR LEDs	
Sync. System	Internal / Line Lock Selectable	
Electronic shutter	1/50 sec. Fixed	
White balance	Auto (2500°K to 15000°K)	
Power supply	AC24V ±10% 50Hz/60Hz ± 1Hz, DC12V ±10%	
Power consumption	DC 12V	5.5W (MAX)
	AC 24V	5.5W (MAX)
Ambient temperature	Operation Limits: -10°C to + 50°C / Storage Limits: -20°C to + 60°C	
Ambient humidity (No condensing)	Operation Limit: Maximum 85% RH / Storage Limit: Maximum 95% RH	
External dimensions	120(ø)mm x 108(H)mm	
Weight	750g	
Accessories	Additional Power Connector, Plastic Anchors, Screws, Instruction Manual	

* The specifications and/or appearance of the product may change without a prior notice.

LENS SPECIFICATION

Max. aperture ratio	1: 1.4	
Focal length	3.3mm ~ 12mm	
Iris (DC auto iris)	F1.4 ~ F360C	
Angle of view (Wide to Tele)	D	125.7° ~ 29.9°
	H	89.8° ~ 23.9°
	V	63.6° ~ 17.9°

* The specifications and/or appearance of the product may change without a prior notice.



CBC Co.,Ltd.
Tokyo, Japan
www.GANZ.jp

