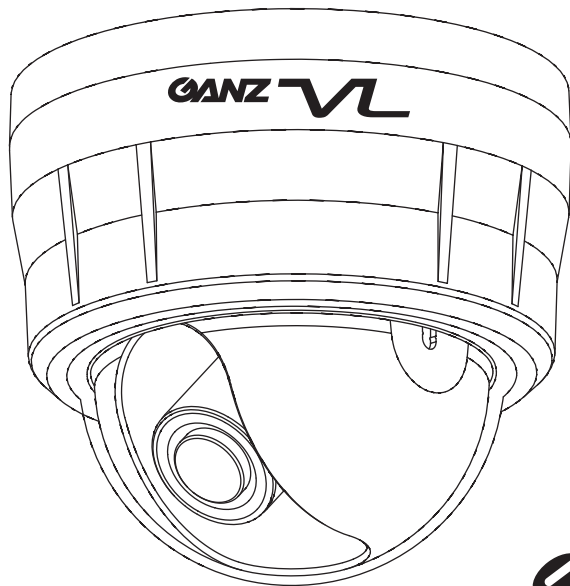


INDOOR COLOR CAMERA

MDCH SERIES

INSTRUCTION MANUAL



24VAC/12VDC

MDCH-39NA

GANZ VL

VALUE SERIES

ENGLISH



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-5
SPECIFICATIONS	EG-6

PRODUCT FEATURES

- High resolution 540TVL surveillance camera with a built-in 1/3" CCD.
- Integrated vari-focal lens allows for versatile applications and easy installation.
- Optical distortion free dome cover
- Manual pan/tilt/rotation mechanism.
- Can be installed on a wall or a ceiling
- 24V AC / 12V DC Auto Sensing Dual Voltage.

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.

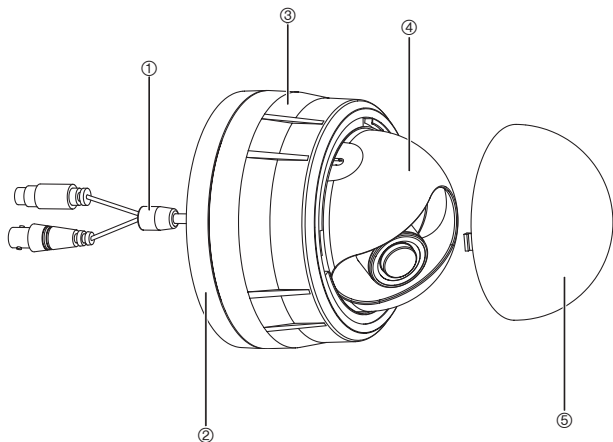
- (1) Use only 24V AC power supply marked class 2 or +12V DC regulated power supply marked class 2.
- (2) To prevent fire or electrical shock, UL listed class 2 wiring should be used for the 12V DC or 24V AC input terminal.
- (3) Be sure to connect each lead to the appropriate terminal. Wrong connection 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

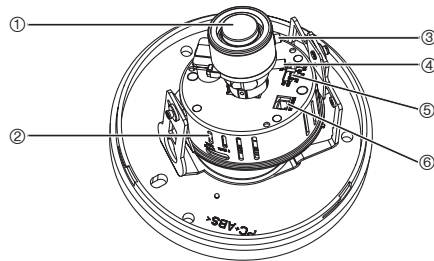
PARTS DESCRIPTION

Outside



- ① BNC Coaxial Video Cable and Power Lead
- ② Camera Base
- ③ Camera Body Cover
- ④ Inner Dome cover
- ⑤ Dome Cover

Inside



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

Accessories

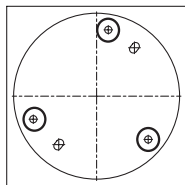


- Additional Power Connector
- Plastic Anchors
- Self-tapping Screws

INSTALLATION AND ADJUSTMENT

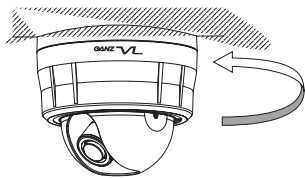
● Attaching the Unit

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

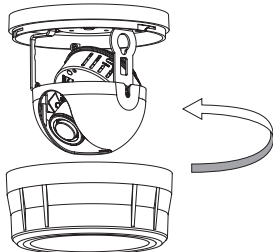


Step 2: Drill three small holes on the surface.

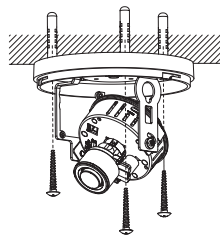
Step 3: Swivel Dome Cover counterclockwise to separate from Camera Body Cover.



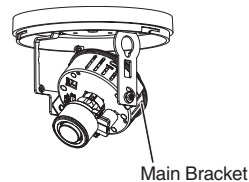
Step 4: Swivel Camera Body Cover counterclockwise to separate from the Camera Base.



Step 5: Remove the Inner Dome Cover and screw the Camera Base with Camera onto the ceiling



Step 6: Rotate the main bracket to adjust the desired pan angle.

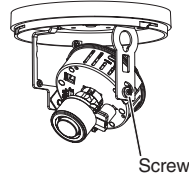


● Adjusting the DIP Switch Mode

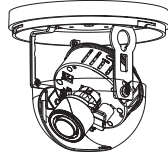
- Step 7: AGC- Automatic Gain Control (suggest ON)
BLC- Back Light Compensation (suggest OFF)
INT- Internal Sync.
D/N- Day and Night Switch (suggest ON)

* 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.

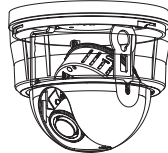
- Step 8: Loosen the screw to adjust the tilt angle then tighten the screw again.



- Step 9: Restore the Inner Dome Cover.



- Step 10: Restore the Camera Body Cover and then Top Cover.



Attention

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

SPECIFICATIONS

Model name	MDCH-39NA	
TV system	NTSC	
Scanning system	2:1 Interlace	
Image sensor	1/3 Type Interline transfer CCD	
Effective elements	768(H) x 494(V)	
Scanning frequency	15.734kHz (H) / 59.94Hz(V)	
Video output	1.0V p-p / 75Ω	
Horizontal resolution	More than 540TVL	
Min. Illuminance	50IRE	1.0lx / F1.2
	30IRE	0.5lx / F1.2
S/N ratio	More than 50dB (At minimum AGC gain)	
Gamma characteristic	0.45	
Sync. System	Internal	
Electronic shutter	1/60 sec. Fixed	
White balance	ATW (2500°K to 15000°K)	
Power supply	AC24V ±10% 50Hz/60Hz ± 1Hz, DC12V ±10%	
Power consumption	DC 12V	3W (MAX)
	AC 24V	3W (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(φ)mm x 108(H)mm	
Weight	540g	
Accessories	Additional Power Connector, Plastic Anchors, Self-Tapping Screws, Instruction Manual	

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

LENS SPECIFICATION

Max. aperture ratio		1: 1.2
Focal length		3.0mm ~ 9.0mm
Iris (DC auto iris)		F1.2 ~ F360C
Angle of view (Wide to Tele)	D	115.4° ~ 39.8°
	H	90.3° ~ 31.9°
	V	66.4° ~ 23.9°

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



CBC Co.,Ltd.

Tokyo, Japan

www.computarganz.com