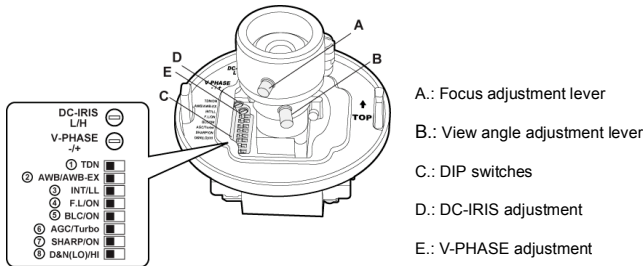


MINI DOME COLOR CAMERA ZC-DN4039 NHA/ZC-DN4039 PHA

Operation Manual

Camera adjustments



	FUNCTION	OFF <input type="checkbox"/>	ON <input type="checkbox"/>
①	TDN	OFF	ON
②	AWB	NORMAL	EX
③	SYNC	INT	LL
④	Flickless	OFF	ON
⑤	BLC	OFF	ON
⑥	AGC	NORMAL	TURBO
⑦	SHARP	NORMAL	ON
⑧	D&N	LOW	HIGH

Camera adjustments for the ZC-DN4039NHA/PHA

DIP switch settings

The row of DIP switches allow the following settings to be made:

TDN mode

If this switch is set to "ON", the camera automatically captures the image in color when the subject is bright and in B/W when the subject is dark.

Auto White Balance

AWB: The camera operates in the normal Auto White Balance range 2700K~11000K

AWB EX: The camera operates in the extended Auto White Balance range 2000K~18000K

SYNC

In LL mode, the V-Phase may be adjusted to compensate for connected supply phase differences.

Only applicable for 24 VAC supply - otherwise the camera operates with INternal sync.

Flickerless mode

If this switch is set to "ON", the camera reduces flicker in the image under fluorescent lighting.

Black Light Compensation

If this switch is set to "ON", the camera response to strong unwanted lighting effects behind the required subject is improved.

AGC mode

Setting to "AGC" will automatically increases the sensitivity even if the brightness of the subject is insufficient. Selecting "NORMAL" will remove noise from the image, but it will also limit the camera's sensitivity.

SHARP

Setting this switch to "ON" automatically creates subject sharpness.

Day and Night

The D&N mode can be activated if TDN is set to "ON". If set to "HI", the time of automatically switching to Day or Night mode will be extended.

Focus & field of view adjustment

Twist the levers on the side of the vari-focal camera to adjust the focus and field of view settings.

TIP: If necessary, perform the final focus through the dome cover, holding it to the lens reversed to confirm the final results.

Vertical phase adjustment

Use this adjustment when using an AC supply to align the camera phase with that of the supply.

DC-IRIS adjustment

This is factory set and should not normally require adjustment except to compensate for excessive image blooming.

ZC-DN4039NHA/PHA camera specifications

Type / Format	ZC-DN4039NHA	ZC-DN4039PHA
Scanning Element	NTSC 2:1 Interface	PAL 2:1 Interface
Image Picture Element	1/3" Interline CCD sensor	
Resolution (TV lines)	540 TVL (normal)	
Minimum Illumination	0.08 lx @ F1.4	
Exposure Control	DC Auto IRIS Lens	
Flickerless	MES 1/100sec (1/120)	
BLC	Central Area for DC Auto IRIS Lens	
Day/Night	Burst ON/OFF & IR cut filter IN/OUT	
White Balance	Auto White Balance	
Auto White Balance Range	2700°K~11000°K (normal)	
Sync System	Internal / Line Lock	
Line Lock (Phase Adj.)	0°~270°K	
Line Lock	60Hz ± 1Hz	50Hz ± 1Hz
Video Output	1.0 Vpp 75 Ohm BNC unbalance	
S/N Ratio	50dB	
White Clip	120IRE	
Gamma Compensation	0.45	
Operation Temperature	-10°C ~ +50°C (-30°C ~ +50°C with Heater)	
Storage Temperature	-20°C ~ +60°C (-35°C ~ +50°C with Heater)	
Power Range	DC 10.6V ~ 30V & AC 24V +/- 20%	
Power Consumption	4.3W	
External Dimension	120(φ)mm x 100(H)mm	
Weight	300g	

Lens Specifications

Focal Length	3.0~9.0 mm	
F-No.	F1.4	
Iris Range	F1.4~F360	
Minimum Object Distance	0.5 m	
Angle Of View	Diagonal	115.4°~39.8°
	Horizontal	90.3°~31.9°
	Vertical	66.4°~23.9°
Lens Type	Vari-focal	

Packing list

- Vandal-proof dome enclosure
- 4 #12 x 1 1/2 mounting screws
- 4 rubber sealing o-rings
- 4 wall plugs
- 1 Torx key bit
- 1 wire ended power adaptor lead
- 1 large rubber gasket (fitted between enclosure and outer ring)
- 1 3/4" sealing plug (1/2" sealing plug fitted to enclosure)
- 1 1/2" and 1 3/4" cable entry grommets