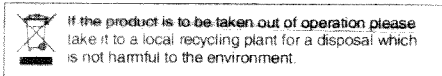
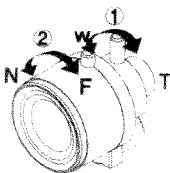


NOTES:

1. Do not install the camera outdoors.
2. Be careful not to scratch the camera lens or dome cover
3. Use the camera within the temperature range of (14 °F to 122 °F)
4. Handle with care. Dropping it can cause serious damage to the camera.
5. Avoid any direct sun light toward the lens.
6. Use a 12V DC, 500mA regulated power adaptor.

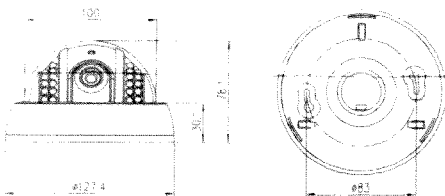


LENS ADJUSTMENT(Vari-focal Lens only)



1. By turning the "Tele-Wide" knob, you can access a range of focal lengths within specified limits.
2. By turning the "Near-Far" knob, you can set the focus toward the wanted object.

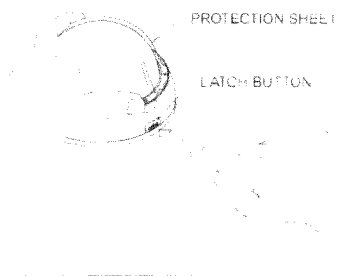
DIMENSION



INSTALLATION

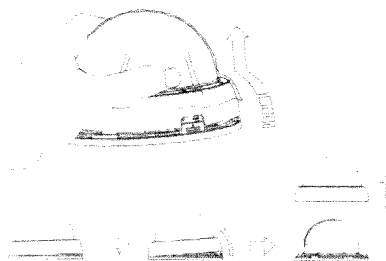
1. Opening the dome

Pushing the latch button.(Remove the protection sheet after installing.)

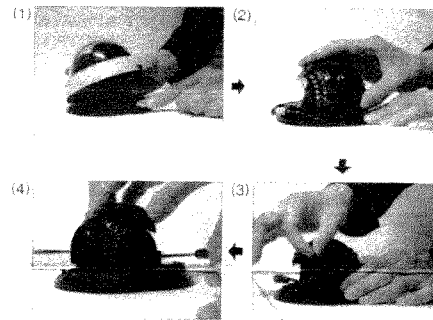


2. Removing the dome

Lift the dome. When you push the latch button, it is unlocked and you can lift the dome.

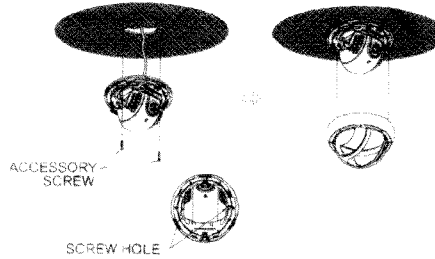


3. Vari-focal lens adjustment

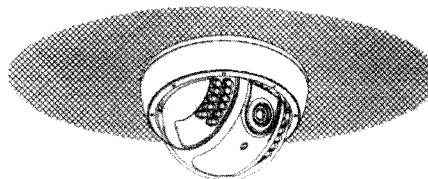


4. Attaching the camera to the ceiling

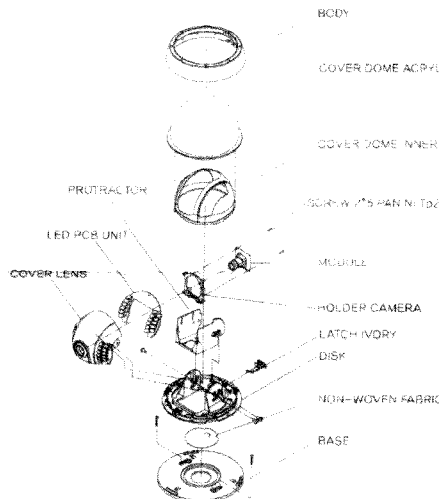
- (1) Install the camera set with the supplied screws on the ceiling.
- (2) Re-assemble the camera.
- (3) After installing, you can adjust the direction up to 360 degrees.



5. Completed installation

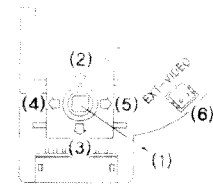


ASSEMBLY



CAMERA FUNCTION SETTING

How to use the joystick



(1) SETUP - Push

Used to access the menu and confirm selection.

(2) UP, (3) DOWN

Used to move the cursor to up or down.

(4) LEFT, (5) RIGHT

Used to move the cursor to left or right and change the value.

(6) EXT-VIDEO terminal

Extra video output terminal for installation. The cable is option.

CVC648IRHQ, CVC648IRHQW CVC648IRVFHQ, CVC648IRVFHQW

OSD Menu Structure

SET MENU	FUNCTION	SUMMARY
LENS	MANUAL	Not Used
	DC	DC ins vari-focal lens - Brightness adjustable
SHUTTER	AUTO	Brightness adjustable
	FLK	Select "FLK" mode when flickering occurs on the screen, due to an imbalance between illumination and frequency
	FIXED	1/60, 1/100, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100,000 sec
	MANUAL	1/60 ~ 1/100,000(256 Steps)
REL	OFF / ON	64 area selectable 64 step adjustable
AGC	OFF / ON	256 step adjustable
WHITE BALANCE	ATW	Auto tracking white balance
	AWB	2,500 ~ 9,500°K
	FIXED	Select 4 kinds fixed mode - MODE 1 : 2,500°K - MODE 2 : 3,100°K - MODE 3 : 5,100°K - MODE 4 : 6,500°K
	MANUAL	RED/BLUE 256 step adjustable
FUNCTION	Refer to the followed table	
ADJUST	CONTRAST	256 step adjustable
	SHARPNESS	32 step adjustable
	CB GAIN, CR GAIN	256 step adjustable
EXIT		Save all the setting menu, then exit

FUNCTION	MODE	SUMMARY
RETURN		Save the function menu and then return to the SETUP menu
LANGUAGE	ENGLISH, KOREAN, JAPANESE, CHINESE	Set the language on setup menu
CAMERA ID	OFF / ON	Maximum length for the name display is limited 15 letters - Position is selectable - English capital letters, Numeral 0-9 and 28 special letters with blank
MIRROR	OFF / ON	Set a horizontal image inversion
DAY & NIGHT		The mode is switched to "Color (LED off) in a normal environment, but switches to "B/W(LED on) mode when ambient illumination is low Delay time 1) User can select the duration time about changing the day/night mode 2) Number 1 means about 0.5 second - You cannot set the "Start level" and "End level"
	Auto mode	- Default value : 1/100.5 sec <Caution> The B&N mode is fixed at Color mode when the delay time is 0
	Color mode	Fixed at Color
	B/W mode	Fixed at B/W
MOTION	OFF / ON	ON MODE - 64 area selectable - Push the set button a few second after areas selected - THRESHOLD : 256 step adjustable - MOTION TRACE : ON/OFF
PRIVACY	OFF / ON	ON MODE AREA SELECT(4Zones / Size / Color Programmable)
GAMMA	0.05 ~ 1.00 adjustable on 0.05 step	Factory default is 0.45

SPECIFICATION

Model	CVC648IRHQ, CVC648IRHQW	CVC648IRVFHQ, CVC648IRVFHQW
Type	IR DOME CAMERA	
Image sensor	1/3" SONY SUPER HAD CCD II	
Effective Pixel	768(H) X 494(V) PIXEL	
Cell size	6.35 μ m(H) X 7.4 μ m(V)	
Horizontal Resolution	540 TV-LINE	
TV Type	NTSC	
Sync. Type	Internal	
Scanning System	2 : 1 interlace	
Scanning frequency (Horizontal)	15.734KHz	
Scanning frequency (Vertical)	59.94Hz	
Video Output	1.0Vp-p(Sync. Negative) Termination 75 Ω	
Gamma Characteristic	$\gamma = 0.45$ Typ (adjustable)	
Min. Illumination	0.2 Lux(F1.2) : LED OFF 0 Lux(65feet Range) : LED ON	
S/N Ratio	48 dB over(AGC OFF)	
Mirror	ON / OFF	
BLC	ON / OFF(Level adjustable)	
Flickerless(FLK)	ON / OFF	
Shutter Speed	1/60 ~ 1/100,000 sec	
Test illumination area	Average test illumination by front view	
Power Supply	12V DC Regulated	
Consumption Current	Max. 320mA	
Lens	f = 3.6mm	f = 2.8 ~ 12mm
Operation Temp	14 °F to 122 °F	
Preservation Temp	-4 °F to 140 °F	
Dimension	Ø127.4 X 78.1(H)mm	
Weight	0.9 lbs.	

*All specifications are subject to change without notice to improve the quality