

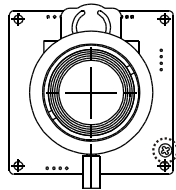
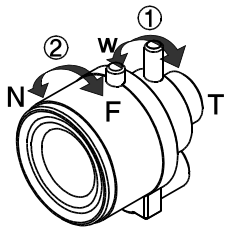
VL-648IR/VL-648IRVF CVC-648IRHQ/CVC-648IRV FHQ



► PRECAUTION

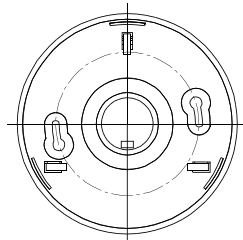
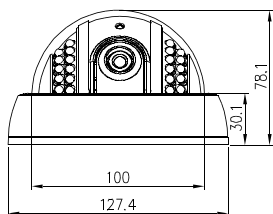
1. Do not install the camera outdoors.
2. Protect the camera from moisture and excessive vibrations.
3. Handle this camera with care. Do not scratch the dome cover or lens glass.
4. Avoid direct sunlight.
5. Use the supplied 12 Volt DC regulated adaptor.
6. Observe polarity when hooking up the camera.

► LENS ADJUSTMENT (Vari-focal Lens only)



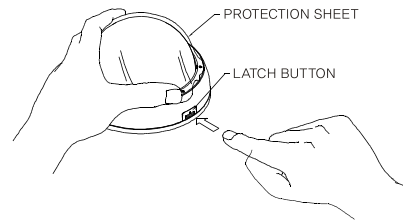
1. Slide the IR array down to gain access to the lens controls.
2. Loosen and adjust the "Tele-Wide" control arm to obtain the desired angle of coverage.
3. Loosen and adjust the "Near-Far" control arm to fine-tune the focus.
4. Tighten both control arms when the desired results are obtained.
5. Slide the IR array back into position.

► DIMENSION

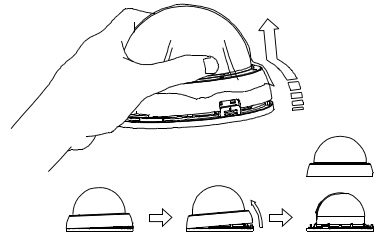


► INSTALLATION

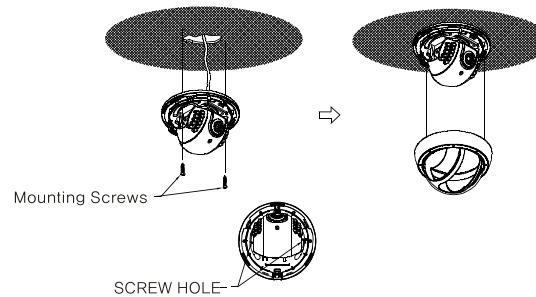
1. **Opening the dome** : Push the latch button, (Remove the protection sheet after installing.)



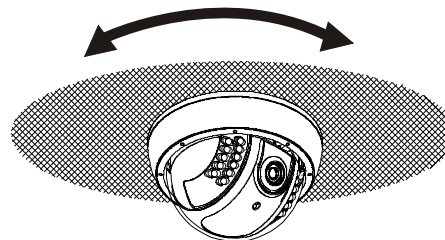
2. **Removing the dome** : Lift the dome. When you push the latch button, it is unlocked and you can lift the dome.



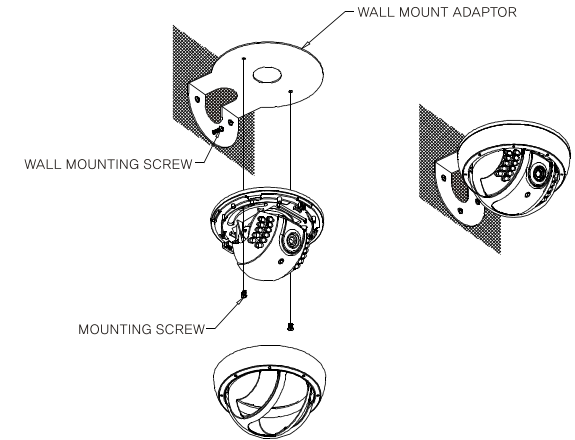
3. (1) Attach the camera to the ceiling using the screws provided for this purpose.
- (2) Adjust the vertical tilt of the camera.
- (3) Replace the dome cover.
- (4) Adjust the horizontal angle of the camera up to 360 degrees.



4. Completed Installation



5. Wall mount installation



► SPECIFICATION

• STANDARD RESOLUTION COLOR CAMERA

Model No	VL-648IR	VL-648IRVF	CVC-648IRHQ	CVC-648IRV FHQ
Image Sensor	1/3" COLOR SONY Super HAD CCD		1/3" COLOR SONY HQ-1CCD	
Effective pixel	510(H) X 492(V) PIXEL		762(H) X 492(V) PIXEL	
Cell Size	9.6μm(H) X 7.5μm(V)			
Resolution	420 Lines		520 Lines	
TV Type	NTSC			
Sync. Type	Internal			
Scanning System	2:1 Interlace			
Video Output	1.0 Vp-p (Sync. Negative)			
Gamma Characteristic	γ = 0.45 typ.			
Min. Illumination	0 Lux(20M Range) : LED ON 0.1Lux(F/1.2) : LED OFF			
S/N Ratio	48dB or More (AGC OFF)			
Gain Control	Automatic			
Shutter	1/60 ~ 1/100,000 seconds			
Power Supply	12 Volt DC Regulated			
Consumption Current	Max.370mA (@12 Volts DC) LED ON		Max.380mA (@12 Volts DC) LED ON	
Reverse Polarity Protection	Yes			
Lens	3.6mm(Optional Lenses Available)	4~9mm(Vari-focal auto Iris lens)	3.6mm(Optional Lenses Available)	4~9mm(Vari-focal auto Iris lens)
Operation Temp	-14F to +122F			

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Amityville, NY 11701

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