

# OPERATING MANUAL

1 / 3 " B / W C C D

# CAMERA

**VBC-271, VBC-410**

**interM**

## CAUTIONS

- Handle with care. Do not drop the camera.
- Do not expose the camera to direct sunlight or place it near a heat source.
- Be sure to use the camera in operating temperature range and less than 90% humidity.
- Do not install the camera in an excessively dusty or humid location.
- Do not expose the camera to rain or water.
- Do not install the camera in a location which is subject to excessive vibration or shock.
- Do not install the camera near equipments that generate a strong magnetic field and radio frequencies.
- Do not disassemble the camera.
- Do not allow anything to get inside the camera.
- When the malfunction is observed, stop using the camera immediately.  
Turn the power off and call your local dealer.

## SPECIFICATIONS

### Common

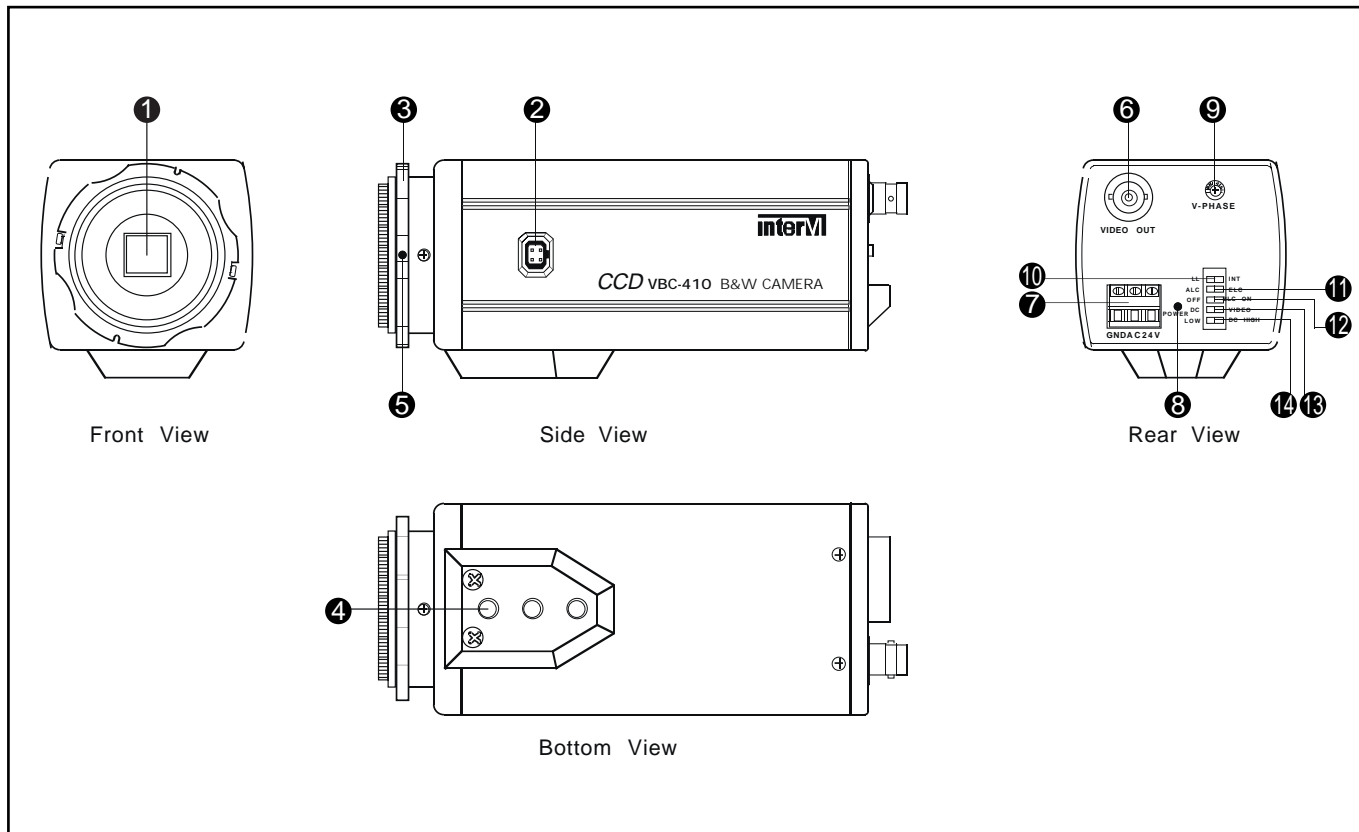
Power Source	AC 24V
Image Sensor	1/3" B/W CCD
Scanning System	2:1 Interlace
Min. Illumination	0.2 Lux
S/N Ratio	50dB
Video Output	Composite 1.0Vp-p 75Ω, BNC
Sync. System	Internal / Line Lock
Electronic Shutter	1/60~1/100,000 sec
AGC/AWB	Automatic
Lens	Optional
Operating Temperature	-10°C~ 50°C
Dimension	62(W) × 56(H) × 142(D)mm
Weight	400g

### Individual

Model	VBC-271(EIA)	VBC-271(CCIR)	VBC-410(EIA)	VBC-410(CCIR)
Pixels	512(H) × 492(V)	512(H) × 582(V)	768(H) × 494(V)	768(H) × 582(V)
Resolution	380 TV Lines	470 TV Lines		
Scanning Freq.	15.734KHz(H) × 59.94Hz(V)–EIA 15.625KHz × 50Hz(V)–CCIR			

\* Specifications and design are subject to change without notice for improvement.

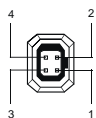
## PART NAMES/DESCRIPTIONS



### 1.CCD SENSOR

1/3" Interline Transfer B/W CCD

### 2.IRIS LENS



Pin No.	DC	VIDEO
1	Cont. -	B+
2	Cont. +	NC
3	Drive +	VIDEO
4	Drive -	GND

### 3.FLANGE-BACK ADJUSTING RING

This ring is used to adjust the Back Focal Length or Picture Focus by rotating this ring.

### 4.CAMERA MOUNTING SCREW HOLE

### 5.C/CS LOCK

### 6.VIDEO OUT

### 7.POWER SOURCE TERMINAL

AC 24V input source and GND.

### 8.POWER LED

Indicating power on.

### 9.PHASE: PHASE ADJUSTMENT AT LINE LOCK MODE

### 10.LL/INT

Line lock/Internal switch.

### 11.ELC/ALC

Electronic/Auto iris lens switch.

### 12.BLC ON/OFF

BLC On/Off switch at electronic shutter mode.

### 13.DC/VIDEO

DC lens or video lens switch at auto iris mode.

### 14.DC HIGH/LOW

DC lens level control at auto iris mode.

## INSTALLATION

### • MOUNTING THE LENS

This camera can use either C or CS mount lenses. Always set the Flange-back adjusting ring to fully clockwise by loosening screws on the ring before mounting the lens, otherwise the inner glass and CCD image sensor could be damaged by the lens. Mount the lens by turning it clockwise onto the lens mount of the camera. Connect the lens cable to the Iris Lens when an auto iris lens is used.

### • MOUNTING THE CAMERA STAND

This camera has the mounting foot on the bottom. To move the mounting foot, remove the two screws holding the foot to the camera body and move the foot to the top and reattach it with the two screws.

### • CONNECTING THE VIDEO CONNECTOR

Plug the BNC jack from the monitor or other device to the BNC connector on the back of the camera.

### • CONNECTING THE POWER

Connect the power source (AC 24V) to the camera.

## FOCUS ADJUSTMENT

The mechanical focus is set at the factory. In case the focus readjustment is required,

- 1) Open the lens aperture completely and set the focus to infinity.
- 2) Loosen the two set screws on the lens mount ring.
- 3) Turn the lens and mount assembly in either direction to obtain the sharpest picture on the screen, and tighten the two set screws.

## TROUBLESHOOTING

- If there is no picture on the monitor screen,
  - make sure all the cables are properly connected.
  - make sure the monitor is properly adjusted.
- If a picture on the monitor screen is not clear,
  - clean the lens.
  - adjust the lens focus.
- If there is a video noise or other unknown problems,
  - stop using the camera and call your local dealer.