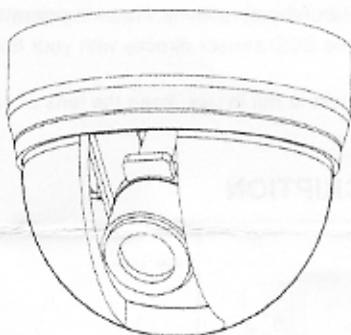


# VITEK

INDUSTRIAL VIDEO PRODUCTS

## VARIFOCAL DOME CAMERA

### VTD-VH49 Series



CE

PHONE: 818-771-0300  
FAX: 818-771-0400  
WWW.VITEKCCTV.COM

9970 GLENOAKS BLVD. UNIT B SUN VALLEY, CA 91352

## FEATURES

- Compact and Light weight design.
- Integrated 4-9mm Varifocal Lens allows for Easy installation and adjustment.
- Hi-speed F1.6 Iris provides excellent low light performance.
- DSP controls for Back Light Compensation, White Balance, and Gain Control.
- Manual pan/tilt/rotation mechanism.
- Can be installed on a wall or a ceiling.
- Video cable with BNC included.

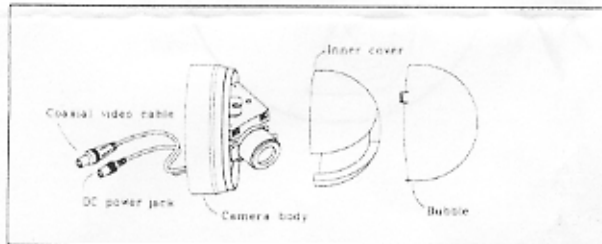
## PRECAUTIONS

1. Do not attempt to disassemble the camera.  
To prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside.  
Refer servicing to qualified service personnel.
2. Handle the camera with care.  
Do not abuse the camera. Avoid striking or shaking it. Improper handling or storage could damage the camera.
3. Do not expose the camera to rain or moisture, or try to operate it in wet areas.  
Do take immediate action if ever the camera does become wet. Turn power off and refer servicing to qualified service personnel. Moisture can damage the camera and also create the danger of electric shock.
4. Never face the camera toward the sun.  
Irrespective of whether the camera is in use or not, you should never face it toward the sun. Do use cautiously when operating the camera in the vicinity of spotlights or other bright lights and light reflecting objects.

## PRECAUTIONS Continued

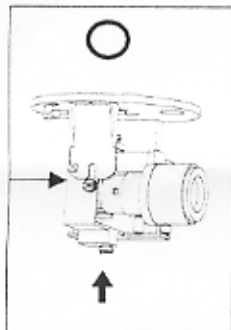
5. Do not operate the camera beyond its temperature, humidity or power source ratings.  
Do not use the camera in an extreme environment such as high temperature or humidity.  
Use the camera under conditions where temperatures are within  $-10\sim+50^{\circ}\text{C}$  ( $14\sim122^{\circ}\text{F}$ ), and humidity is below 80%.
6. Do not touch the CCD sensor directly with your fingers. If necessary, use soft cloth moistened with alcohol to wipe off the dust.
7. When the camera is not in use, keep the lens or cap attached to protect the CCD sensor.

## PART DESCRIPTION

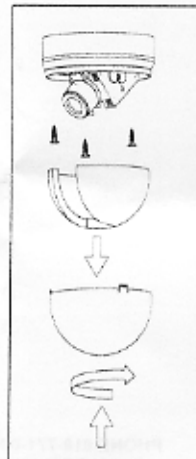
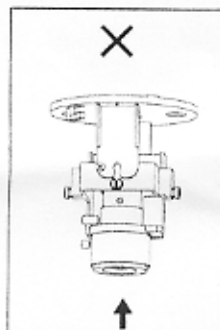


## INSTALLATION

Right



Wrong



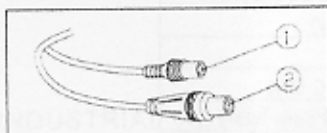
### Cover Removal and Attachment

- When removing the camera from its chassis, make sure the slot is parallel with the base. Pull and insert lightly.
- To remove the bubble, rotate counterclockwise and pull lightly. To attach it, put inner cover into bubble, align lens into the slot of inner cover, then insert bubble into camera body and rotate clockwise lightly until it snaps together.

### 1. Creating a Hole in the Ceiling or Wall

Make three holes for the screws affixing the camera body, and additional one hole for the power and video cables.  
Use the supplied template to mark the appropriate mounting position on the ceiling or the wall.

### 2. Connecting the Cables



Please refer to the diagrams below.

- ① Connect the power to the DC Jack.
- ② Connect the video cable from monitor to the equipped video cable.

#### →ATTENTION

- ① Check if the power is off before handling the power cable.
- ② Check for proper polarity before connecting to power supply. Improper polarity may cause damage to the camera.

### 3. Mounting the Camera Body



Remove the body cover, and mount the camera body to the ceiling or wall.  
Align the housing to the holes you have made, and use two screws to mount the camera body.

- Choose screws suitable for the type of ceiling or wall material, Screws with a diameter of 4 to 5 mm are recommended.

## ADJUSTMENT

### 1. Setting the Dip Switch

Set according to lighting conditions

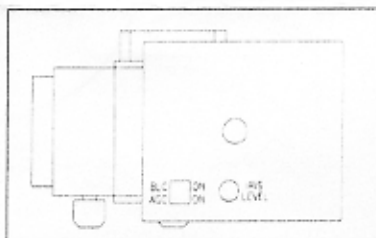
#### 1. Dip Switch for BLC & AGC functions

##### Back Light Compensation (BLC) ON/ OFF:

When strong, unwanted background lighting interferes with the clarity of important areas, turn this switch to the "ON" position.  
The BLC compensates to back light conditions in the central area.

##### Auto Gain Control (AGC) ON/OFF

Switching the AGC on will improve camera sensitivity in low light conditions.



### 2. Adjusting the Camera Direction

Camera body moves in three ways: Pan, Tilt, and Rotate.  
Adjust the direction so that the lens is aiming at the target.

### 3. Adjusting the Viewing Angle and Focus

Use the lever to adjust the viewing angle and focus.

### 5. Adjusting the DC Iris Level

Set according to lighting conditions.

- ① Turn the dipswitch Auto Gain Control (AGC) to OFF.
- ② Use the special screwdriver provided and adjust the DC iris level.
- ③ Turn the dipswitch Auto Gain Control (AGC) to ON.

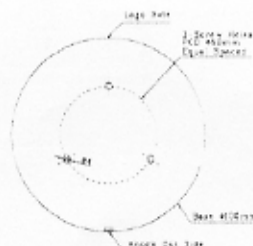
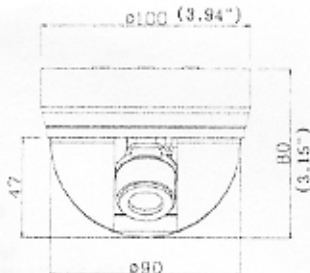
### 6. Completing the Adjustment and Installation

- ① Attach the body cover.

- ② Turn the inner cover to adjust the lens to the opening.  
Attach the dome cover.

### • Packing List

- 1. Dome Camera with D.D. Vari-focal Lens: x 1
- 2. Instruction Manual



## CAMERA SPECIFICATIONS:

VTD-VH49	
	High Resolution 1/3" Format CCD Sensor
Effective Pixels	768 (H) x 492 (V)
Resolution	480 TVL
Minimum Illumination	1.2 Lux (50 IRE, AGC ON)
S/N Ratio	48 dB (AGC OFF with low pass filter)
Video Output	Composite Output 1.0 Vp-p/75Ω
Auto Gain Control	ON/OFF
Sync	Internal
White Balance	Auto White Balance: 2700°K ~ 9100°K
BLC	Luminance average process in central
Aperture Correction	Internal
Power Consumption	Max. 3.0 W
Operation Temperature	-10~ +50°C (14~122°F), Less than 80% R.H.
Camera Dimensions	80(H) x 100(Ø) mm [3.15"(H)x3.94"(Ø)]
Weight	165 g (0.36 lbs)
Power Supply	12V DC (± 10%)

## LENS SPECIFICATION:

Focal length	4.0 - 9.0mm	
Maximum aperture ratio	1: 1.2	
Iris	T: F1.6 - 360 W: F2.4 - 360	
Angle of View	Horizontal	71° (wide) - 31.6° (tele)
	Vertical	51.8° (wide) - 23.6° (tele)
Iris control	(AES)	1/50 sec linear

NT Specification subject to change without notice.