

High Resolution Waterproof IR Camera

Operating Instruction



VD-TP700IR50L2812-W

DESCRIPTION

The camera adopts SONY newest generation image processing technology-Enhanced Effio-E. It has high horizontal resolution up to 700TVL as well as advanced DNR, D-WDR, HS-BLC and other functions. Fashionable and professional appearance design; Powerful OSD menu(optional) includes Brightness, Contrast, Saturation adjusting functions; Multi-area, White Balance, AGC, and other functions ensure clear bright pictures. Besides, Mirror, Privacy and other aided functions make it suitable for various special environments and realize simple and convenient round-clock surveillance.

Enhanced Effio-E Advanced Image Processing Technology; 700TVL High Resolution



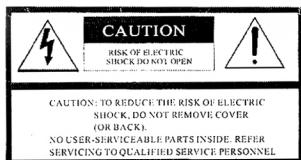
420 TV Line



700 TV Line

PRECAUTIONS

Thank you for your purchasing this product. Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.



1. Use the appropriate power supply

The input power for the camera is DC12V. Be sure to connect it to the appropriate power. Wrong connection may cause malfunction and/or damage to the camera.

2. Do not attempt to disassemble the camera.

To avoid electric shock, do not remove screws or camera housing. There are no user serviceable parts inside. Ask a qualified service person for servicing.

3. Handle the camera with care.

Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.

4. Do not use strong or abrasive detergents when cleaning the camera body.

Use a dry cloth to clean the camera when it is dirty. In case the dirt is hard to remove, use a mild detergent and wipe gently.

5. Do not attempt to aim the camera at the sun.

Do not attempt to aim the camera at the sun or other extremely bright objects that cause smear to appear irrespective of whether the camera is operating or not. This could damage the CCD (Charge Coupled Device).

6. Do not put the camera in a place with interference.

When this camera is installed near the equipment like wireless communication device which emits strong electromagnetic field, some irregularity such as noise on monitor screen may happen.

FEATURES

High Resolution

700TVL horizontal resolution with 1/3" sony 960H CCD.

D-WDR

Advanced D-WDR technology greatly improves its image quality under variable lighting conditions.

HS BLC

It can distinguish strong light spots, and cover them to improve the definition of the entire image and thus ensures clearer and more effective surveillance.

OSD Menu(optional)

Powerful OSD menu allows for various function settings.

2D-DNR

Use special algorithm, reduce video and color noises, which increases its resolution and cleanliness and creates clearer and sharper images.

Auto D/N Switchover Operating Mode

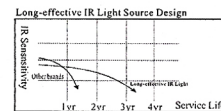
COLOR mode in daytime when there is enough light and B/W mode at night when the illumination is low and IR turned on automatically.

Privacy Mask

Up to 4 areas can be masked to protect personal privacy by concealing parts of the image from view.

Long-life IR LED Design

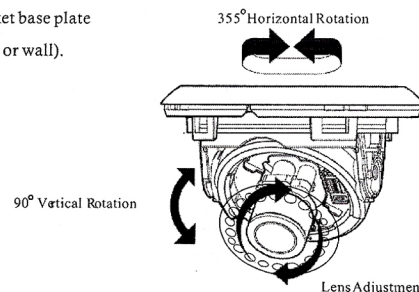
High-performance IR LED, whose brightness is several times higher and service life longer than an ordinary LED's with 20m IR range.



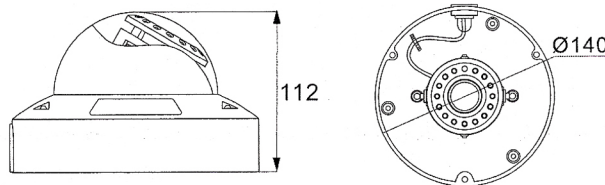
PARTS INSTRUCTION

Camera Installation:

1. Press the unlock button on the base plate to remove the dome housing.
2. Inner Cover should be removed by using a screw-driver to screw out the two pieces of screws on the side to install and adjust the camera.
3. Hold the camera bracket base plate, pull open its lock, and turn the camera in the unlocking direction to separate the camera from the bracket base plate.
4. Use screws to fix the bracket base plate to the needed place (ceiling or wall).



Notice: Camera front-end mark on mounting bracket should face to the monitoring area.



SPECIFICATIONS

Model No		VD-TP700IR50L2812-W
Sensor	Sensor	1/3" 960H High Sensitivity CCD
	Video Format	PAL/NTSC
	Resolution	700TVL
	Mini Illumination	0Lux (IR ON)
	S/N Ratio	≥50dB (AGC OFF)
	AGC	AUTO; MANUAL
	BLC	ON; OFF; HLC
	Iris Control	Electronic Iris/Auto Iris Lens (DC Drive)
	Shutter Speed	1/60(1/50)-1/100000 Second
	White Bal	Mode: MANUAL; ATW; USER
Menu Oper(optional)	Range	(ATW) 2200~10000° K
	Mirror	ON/OFF
	Day/Night	AUTO; COLOR; B&W
	Privacy	ON/OFF(1-4 AREAS)
	Adjustment	HIGH LUMINANCE; LOW LUMINANCE
	Title	ON/OFF (15 Characters Max)
	2D-DNR	ON/OFF
	D-WDR	ON/OFF
	Sync Mode	INTERNAL
Power	Voltage	DC12V
	Current	<700mA
IR Range		20m
Lens Mount		2.8-12mm
Operating Temp		-10°C~50°C
Storage Temp		-20°C~50°C
Dimension		112(H)*140(Φ)
Weight		740g

*Specifications subject to change without notice.

Press MENU button to display SETUP

SETUP MENU	
> LENS	MANUAL(AUTO↵)
SHUTTER/AGC	AUTO↵ (MANUAL↵)
WHITE BAL	ATW↵ (PUSH; USER1; USER2; ANTI CR; MANUAL)
BACKLIGHT	OFF(BLC; HLC)
PICT ADJUST	↵
ATR	OFF(ON↵)
MOTION DET	ON↵ (OFF)
NEXT↵	
EXIT ↵	SAVE ALL

SETUP MENU	
> PRIVACY	OFF(ON↵)
DAY/NIGHT	AUTO↵ (COLOR; B/W↵; EXT11; EXT12)
NR	↵
CAMERA ID	OFF(ON↵)
SYNC	INT
LANGUAGE	ENGLISH (OTHERS)
CAMERA RESET	
BACK ↵	
EXIT ↵	SAVE ALL

LENS:

1. Move the cursor to LENS by up and down buttons and set EXPOSURE by left and right buttons: MAUNAL; AUTO↵.
2. Then set the AUTO mode by left and right buttons: AUTO; CLOSE; OPEN.

AUTO IRIS	
TYPE	DC (VIDEO)
> MODE	AUTO (OPEN; CLOSE;)
SPEED	080
RETURN ↵	

SHUTTER/AGC:

1. Move the cursor to SHUTTER/AGC by up and down buttons and set SHUTTER/AGC by left and right buttons: AUTO↵; MANUAL↵.
2. Set the AUTO MODE by enter buttons, and set HIGH LUMINANCE by left and right buttons: SHUT+AUTO IRIS; AUTO IRIS. Set the LOW LUMINANCE: AGC; OFF.

AUTO SETUP	
HIGH LUMINANCE	
> MODE	SHUT
BRIGHTNESS	030
LOW LUMINANCE	
MODE	AGC (OFF)
BRIGHTNESS	X0.75 (1.00; 0.25; 0.50)
RETURN ↵	

3. Set the MANUAL MODE by enter buttons:

MANUAL SETUP	
> MODE	SHUT+AGC
SHUTTER	1/50 (50~10000)
AGC	6.00 (6~44.8)
RETURN ↵	

WHITE BALAN:

1. Move the cursor to WHITE BAL by up and down buttons and set WHITE BAL by left and right buttons: ATW↵; PUSH LOCK; MANUAL↵; ANTI CR; USER1; USER2. Then set the ATW:

ATW	
> SPEED	239
DELAY CNT	016
ATW FRAME	X1.00 (0.50~2.00)
ENVIRONMENT	INDOOR (OUTDOOR)
RETURN ↵	

2. Set the MANUAL by enter buttons:

MANUAL WB	
> LEVEL	064
RETURN ↵	

3. Set the USER1 and USER2 by enter buttons:

USER1 WB	
> B-GAIN	030
R-GAIN	033
RETURN ↵	

BACK LIGHT:

1. Move the cursor to BACK LIGHT by up and down buttons and set BACK LIGHT by left and right buttons: OFF; BLC; HLC.

PICT ADJUST:

1. Move the cursor to PICT ADJUST by up and down buttons and set PICT ADJUST by enter buttons:

PICT ADJUST	
> MIRROR	OFF(ON)
BRIGHTNESS	000
CONTRAST	128
SHARPNESS	128
HUE	128
GAIN	128
RETURN ↵	

ATR:

1. Move the cursor to ATR by up and down buttons and set ATR by left and right buttons: OFF; ON↵:

ATR	
> LUMINANCE	MID (LOW; HIGH;)
CONTRAST	MID (LOW; HIGH;)
RETURN ↵	

2. Set the LUMINANCE and CONTRAST by left and right buttons: LOW; MID; HIGH.

MOTION DETECTION:

1. Move the cursor to MOTION DEL by up and down buttons and set MOTION DET by left and right buttons: OFF; ON↵.

MOTION DET	
> DETECT SENSE	111
BLOCK DISP	OFF(ON; ENABLE↵)
MONITOR AREA	OFF(ON)
AREA SEL	1 / 4 (2/4; 3/4; 4/4)
TOP	020
BOTTOM	110
LEFT	020
RIGHT	200
RETURN ↵	

2. Move the cursor to BLOCK DIST by up and down buttons and set BLOCK DISP by left and right buttons: OFF; ON; ENABLE.
3. Move the cursor to MONITOR AREA by left and right buttons: OFF; ON.

PRIVACY:

1. Move the cursor to PRIVACY by up and down buttons and set PRIVACY by left and right buttons: OFF; ON↵.

PRIVACY	
> AREA SEL	1/8 (1-8)
TOP	000
BOTTOM	000
LEFT	000
RIGHT	000
COLOR	1 (1-8)
TRANSP	1.00 (0.5; 0.75; 0.00)
MOSAIC	OFF(ON)
REURN ↵	

DAY/NIGHT:

1. Move the cursor to DAY/NIGHT by up and down buttons and set DAY/NIGHT by left and right buttons: COLOR; B/W↵; EXT11; EXT12; AUTO↵.

DAY/NIGHT	
> BURST	OFF(ON)
DELAY CNT	001
DAY NIGHT	002
NIGHT DAY	004
RETURN ↵	

2. Set B/W by left and right buttons:

B/W	
> BURST	OFF(ON)
IR OPTIMIZER	OFF(ON)
MODE	-
LEVEL	-
RETURN ↵	

NR:

1. Move the cursor to NR by up and down buttons and set NR MODE by left and right buttons: Y/C; C; Y

NR	
> NR MODE	Y/C (OFF; Y; C)
Y LEVEL	004
C LEVEL	004
RETURN ↵	

CAMERA ID:

1. Move the cursor to NR by up and down buttons and set NR by left and right buttons: OFF; ON↵.

CAMERAID	
ABCDEFGHIJKLMNPOQRSTUVWXYZ0123456789-!"#\$%&'()*+,-./:;<=>?@^*_x+/-	
> CHR1	CHR2
++ CLR POS ↵	
RETURN ↵	

LANGUAGE:

1. Move the cursor to LANGUAGE by up and down buttons and set LANGUAGE by left and right buttons: CHINESE; ENGLISH; JAPANESE; DEUTSCHE; FRANCAIS; RUSSIAN; PORTUGUESE; SPANISH.

Camera reset

The camera each function returned to the factory Settings.

EXIT:

1. Move the cursor to EXIT by up and down buttons and set EXIT by left and right buttons.