INSTRUCTION MANUAL

TVI 10x Auto Focus Zoom LPR Camera

HLPR67T

(IR Bullet Camera)



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Precautions

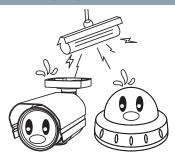
Do not install the camera in extreme temperature conditions.

Do not install the camera under unstable lighting conditions.

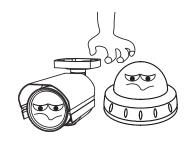
Do not touch the front lens of the camera.



Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.



Severe lighting change or flicker can cause the camera to work improperly.

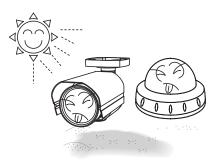


This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Never keep the camera pointed directly at strong light.

Do not drop the camera or subject it to physical shocks.

Do not expose the camera to radioactivity.



It can cause malfunctions to occur.



Housing damage can compromise weatherproof ratings.



If exposed to radioactivity the CCD will fail.

NOTE

- * If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.
- * please check that the power satisfies the normal specification before connecting the camera.





The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

In USA and Canada, Use Class 2 Power Supply Only

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WARNING - To prevent electric shock and risk of fire hazards:

- ◆Do NOT use power sources other than that specified.
- ◆Do NOT expose this appliance to rain or moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock and risk of fire hazards: Do NOT use power sources other than those specified.

Safety Instructions

Precautions for use

- This camera should be installed by qualified personnel only
- There are no user serviceable parts inside
- Do not disassemble this camera other than to make initial adjustments
- Use a UL approved regulated 24 volt AC or 12 volt DC power supply
- Use appropriate low voltage power cable to prevent fire or electrical shock
- Please insure that your installation area can support the weight of the camera

Please handle this camera carefully:

- Do not use a strong or abrasive detergent when cleaning the camera
- Do not install near cooling or heating device

Package Contents

Please make sure that the following items are included in the Package:

1) HLPR67T

- 1 Video Test Connector, Power Jack
- 1 Focus Adjustment(HLPR67T)
- 1 Bracket Base
- 1 Wrench
- Set Screw
- 4 Tapping Screws 4x25
- 4 Hexagon Socket Screws M5x10

CAMERA INSTALLATION

CONNECT POWER CABLE

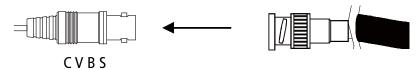
1. WHEN USING 12 VOLTS DC (constant voltage 500mA)



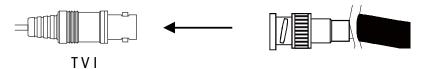
2. WHEN USING 24 VOLTS AC (40 Volt Amps)



- 3. CONNECT VIDEO CABLE
- 1) WHEN USING IT AS ANALOG OUTPUT, CONNECT YELLOW COLOR BNC CABLE TO THE BNC JACK.

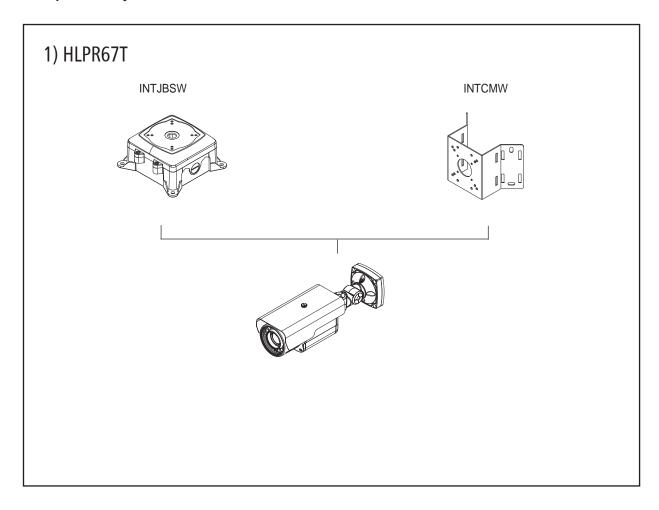


2) WHEN USING IT AS TVI OUTPUT, CONNECT BLACK COLOR BNC CABLE TO THE BNC JACK.



CAMERA INSTALLATION

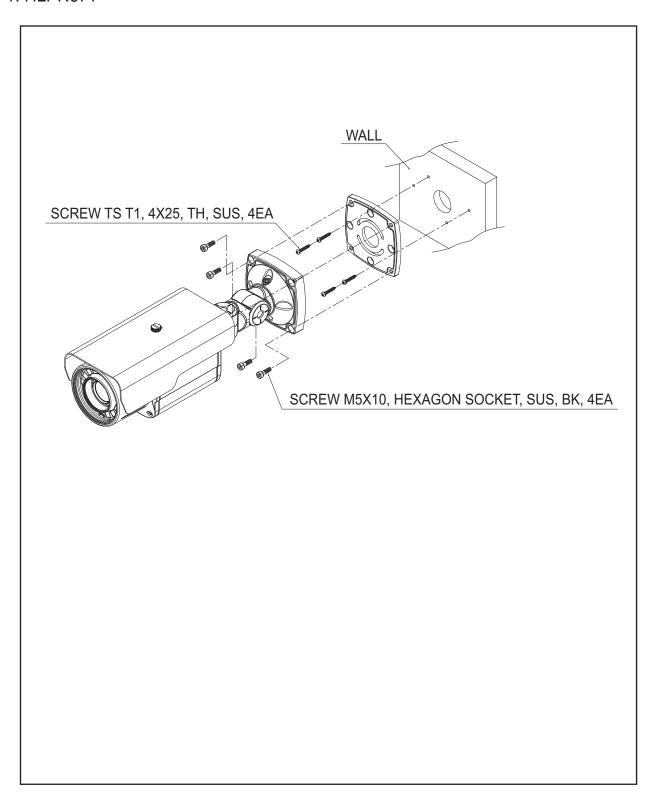
Compatibility



CAUTION: <u>The installation instructions in this manual</u> are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAMERA INSTALLATION

1. HLPR67T



TVI 10X AUTO FOCUS ZOOM LPR CAMERA



■ HLPR67T (10X AUTO FOCUS ZOOM LENS)









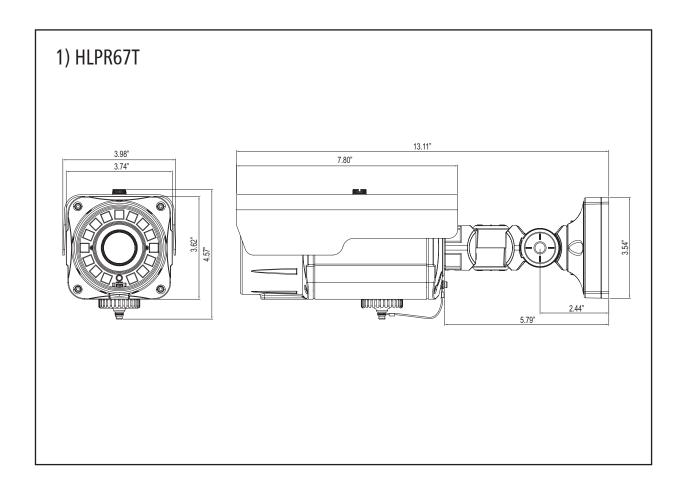




SPECIFICATIONS

MODEL	HLPR67T
Image Sensor	1/3" Panasonic CMOS Sensor
Total Pixels	1,956(H) x 1,266(V), 2.48M Pixels
Active Pixels	1,944(H) x 1,092(V), 2.12M Pixels
Scanning System	Progressive Scan
Sync. System	Internal
Resolution	Digital : 1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps Analog : 700TVL
Min. Illumination	0 Lux(IR LED ON)
Video Output	HD : HD TVI, Analog : CVBS(without WDR)
S/N RatioC	More than 50dB(AGC off)
Lens Type	10x Auto Focus Zoom Lens / Optical x10, Digital x32 Zoom
Focal Length	F=5mm ~ 50mm
MODE	AUTO,IRIS.P,SHUT.P,MANUAL
AGC	0~5~10
Shut Speed	4X,2X,1/30sec,1/60sec,1/120sec,1/250sec,1/700sec,1/1000sec,1/1600sec, 1/2500sec,1/5000sec,1/7000sec,1/10000sec,1/30000sec
IRIS	0~7~20
Brightness	0~20
WDR/BLC	WDR / BLC / OFF
HLC	MODE / LEVEL / COLOR
DNR	OFF,LOW,MIDDLE,HIGH,AUTO
GAMMA	0.45,0.55,0.65,0.75
COLOR/B&W	COLOR/B&W
IR CONTROL	ON/OFF
FOCUS	ONE PUSH/MANUAL/AUTO
DISTANCE	0.1m,1.0m,3.0m,5.0m,10.0m
ZOOM SPEED	0~7
LENS REFRESH	ONE PUSH,1day,2day,3day,4day,5day,6day,7day,8day,9day,10day
EXPOSURE	FLICKERLESS /
WHITE BAL	MODE / RED GAIN / BLUE GAIN / CHROMA
MIRROR	OFF,H,V,H&V
DEFOGE	OFF,MANUAL,AUTO / MANUAL-LOW,MIDDLE,HIGH
FREEZE	ON/OFF
ACE	OFF,LOW,MIDDLE,HIGH
PRIVACY	ON/OFF (#: 1~24) / COLOR (0~13) / TRANS (0~3)
MOTION	ON/OFF (#: 1~3) / SENSITIVITY (1~20) / INTERVAL & DWELL TIME (0~255sec)
DEFECT	0~255
IMAGE RANGE	COMP / USER / FULL
LANGUAGE	ENG
Power Source	DC 12V / AC 24V Dual Votage Operation
Power Consumption	260mA(IR ON : 560mA)
Operating Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)
Storage Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)
External Diemension	3.98"(W) x 4.57"(H) x 13.11"(D)
Weight	3.52lbs

CAMERA DIMENSION



General Features

Transfer Video Interface

The combination of a 2Mega CMOS image sensor and TVI DSP provides an excellent resolution of TVI picture.

• 3D-DNR

Smart 3DNR prevents the image blurring of moving object and activates only if moving objects are appearing on the scene.

Smart-IR

No saturation image, vivid image in darkness! "TVI" camera makes very sharp video image in darkness! This technology eliminates saturation of video image of the closer object in darkness by control of the IR sensitivity. Saturation never happens in our "TVI" cameras, you can enjoy vivid image in any dark condition!

Sens-Up

Despite a limited & low light condition, Sens-Up - Max. x32 helps the viewer to get visible and clear images.

Defog

Defog function "improves" the clarity of images taken in poor conditions such as fog, smoke, rain or snow.

WDR(Only For TVI Output)

A powerful and advanced technology that captures a high resolution picture even where images appear dark.

CVBS(Composite Video Blanking and Sync)

TV system is switchable 'NTSC' or 'PAL' with built-in OSD.

Intelligent Function

An extraordinary technology that enables Speco Technologies TVI to become the ultimate solution by providing intelligent features based on motion detection. It also strengthens crime prevention and detection.

How to Setup the Camera Menu

Setup Menu

					OFF(0s),LOW(10s),MID-LOW(20s),MIDDLE(30s),
			DAY→NIGHT		MID-HIGH(40s),HIGH(50s)
					OFF(0s),LOW(10s),MID-LOW(20s),MIDDLE(30s),
		AUTO	NIGHT→DAY		MID-HIGH(40s),HIGH(50s)
			BURST		ON/OFF
			POLARITY		ACTIVE LOW,ACTIVE HIGH
			MODE		AUTO,IRIS.P,SHUT.P,MANUAL
			AGC		0~5~10
			7.00		4X,2X,1/30sec,1/60sec,1/120sec,1/250sec,1/700sec,
			SHUT SPEED		1/1000sec, 1/1600sec, 1/2500sec, 1/5000sec, 1/7000sec,
					1/10000sec,1/30000sec
			IRIS		0~7~20
			BRIGHTNESS		/0~20
				WDR	WDR OFF,LOW,MID-LOW,MIDDLE,MID-HIGH,HIGH
		ALL DAY	WDR/BLC	BLC	POSITION
			WDR/BLC		SIZE
	DAY&NIGHT			OFF	
				MODE	ON/OFF/NIGHT
			HLC	LEVEL	0~10~20
MENU				COLOR	0~13
IVILIVO			DNR		OFF,LOW,MIDDLE,HIGH,AUTO
			GAMMA		0.45,0.55,0.65,0.75
			COLOR/B&W		COLOR/B&W
			IR CONTROL		/ON/OFF
			MODE		AUTO,IRIS.P,SHUT.P,MANUAL
			AGC		0~5~10
					4X,2X,1/30sec,1/60sec,1/120sec,1/250sec,1/700sec,
			SHUT SPEED		1/1000sec, 1/1600sec, 1/2500sec, 1/5000sec, 1/7000sec,
					1/10000sec,1/30000sec
			IRIS		0~7~20
			BRIGHTNESS		/0~20
			WDR/BLC	WDR	WDR OFF,LOW,MID-LOW,MIDDLE,MID-HIGH,HIGH
		ALL NIGHT	BLC	BLC	POSITION
			BLC	BLC	SIZE
				MODE	ON/OFF/NIGHT
			HLC	LEVEL	0~10~20
				COLOR	0~13
			DNR		OFF,LOW,MIDDLE,HIGH,AUTO
			GAMMA		0.45,0.55,0.65,0.75
			COLOR/B&W		COLOR/B&W
			IR CONTROL		/ON/OFF

How to Setup the Camera Menu

		FOCUS			ONE PUSH/MANUAL/AUTO
		DISTANCE			0.1m,1.0m,3.0m,5.0m,10.0m
		ZOOM SPEED			0~7
					ONE PUSH,1day,2day,3day,4day,5day,6day,7day,8day,
	FOCUS	LENS REFRESH			9day,10day
					OFF,Max 2x,Max 3x,Max 4x,Max 5x,Max 6x,Max 7x,
					Max 8x,Max 9x,Max 10x,Max 11x,Max 12x,Max 13x,
		E.ZOOM			Max 14x,Max 15x,Max 16x,Max 17x,Max 18x,Max 19x,
					Max 21x,Max 23x,Max 25x,Max 28x,Max 32x
	EXPOSURE	FLICKERLESS			
		MODE			ONE PUSH,AUTO,MANUAL,INDOOR,OUTDOOR
	WHITE BAL	RED GAIN			
	VVIIIIE DAE	BLUE GAIN			
		CHROMA			0~10~20
		MIRROR			OFF,H,V,H&V
		DEFOCE	MODE		OFF,MANUAL,AUTO
	IMAGE	DEFOGE	LEVEL		MANUAL-LOW,MIDDLE,HIGH
		FREEZE			ON/OFF
		ACE			OFF,LOW,MIDDLE,HIGH
MENU	INTELLIGENCE	PRIVACY	MASK#		1~24
			MODE		ON/OFF
			POSITION		
			SIZE		
			COLOR		0~13
			TRANS		0~3
		TELLIGENCE MOTION	AREA#		1~3
			MODE		ON/OFF
			SENSITIVITY		0~20
			POSITION		
			SIZE		
			INTERVAL TIME		0~255sec
			DWELL TIME		0~255sec
			ZOOM PRESET		
			RANGE		10%,20%,30%
		DIS	FILTER		LOW,MIDDLE,HIGH
			AUTO C		OFF,HALF,FULL
		DEFECT			0~255
			COMP		
	CDECIAL ELIZIO	IMAGE RANGE	USER	LEVEL	0~32
	SPECIAL FUNC		FULL		
		SYSTEM			NTSC/PAL
		HD FORMAT			1080p/30fps,720p/30fps,720p/60fps

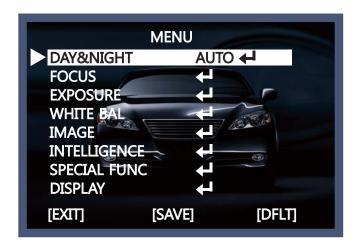
How to Setup the Camera Menu

			OFF		
			ION -	ID	ON/OFF
		DISP SEL		TITLE	ON/OFF
				ZOOM RATIO	ON/OFF
				SYSTEM MSG	ON/OFF
		SET TITLE			
MENU	DISPLAY	PLAY INIT SEL	OFF		
			ID		ON/OFF
			BAUDRATE		ON/OFF
			PROTOCOL		ON/OFF
			VERSION		ON/OFF
			INIT MSG		ON/OFF
		SET INIT MSG			
		LANGUAGE			ENG,CHN1,CHN2,JPN

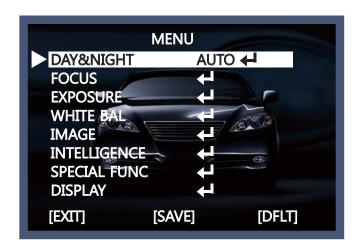
Menu set up

Menu setting can be selected by the button inside the camera.

- 1. Press the set button.
 - * The Set Up menu will be displayed on the monitor.



- 2. Move and select the required function using the Up and Down button.
 - * Move the triangular indicator Up or Down to select the desired feature by pressing the Up or Down button.



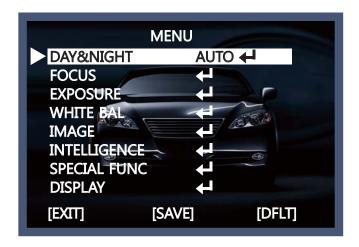
- 3. Change menu settings using the Left or Right button.
 - * Available values or Status are displayed by pressing the Left or Right buttons. Press the button until desired value / status is displayed.
- 4. After Changing the setting move the arrow indicator to EXIT and press the SET button to EXIT.

NOTE

- ▶ Move to the available submenu by moving arrow to desired feature.
- ▶ Menu shows "_ _ _ " is not used according to set up condition of menu.

DAY&NIGHT

Move the triangular indicator to LENS using the Up and Down buttons on the Set Up menu screen.





- ◆ AUTO : Day & night mode is automatically changed according to brightness.
 - DAY→NIGHT: Switching time from Day to Night.(OFF,LOW,MID-LOW,MIDDLE,MID-HIGH,HUGH)
 - NIGHT→DAY : Switching time from Night to Day.(OFF,LOW,MID-LOW,MIDDLE,MID-HIGH,HUGH)
 - BURST : Set Burst ON or OFF in Night mode.
 - POLARITY: External input polarity. (ACTIVE LOW / ACTIVE HIGH)





◆ ALL DAY / ALL NIGHT :

- MODE: Select exposure mode.(AUTO / IRIS.P / SHUT.P / MANUAL)
- AGC : Select automatic gain control ON/OFF.
- SHUT SPEED: Select shutter speed manually from x4 to 1/30,000.
- IRIS: Iris level can be set in IRIS.P or MANUAL mode.
- BRIGHTNESS : Adjust brightness from 0~20 value.
- WDR/BLC

Description > The WDR (Wide Dynamic Range) function works to correct excessive light within the frame to produce a usable image. When the image has simultaneous bright and dark areas, it makes both areas distinct. If you select WDR, a submenu appears where you can make finer adjustments.

- Can adjust level [LOW, MID-LOW, MIDDLE, MID-HIGH, HIGH]
- * WDR doesn't work in manual exposure mode and shutter priority mode.
- When WDR on CVBS output is disable.

▷ BLC : This function is used to counterbalance the screen image by increasing the brightness so that a subject which appears dark due to a strong backlight can be displayed in more detail. If you select BLC, a submenu appears where you can make finer adjustments.

- POSITION: Control position by direction key
- SIZE : Control size by direction key
- X BLC doesn't work in manual exposure mode.

- HLC: This function is used to suppress or strong light source (for example, headlights of cars during nighttime) so that other subjects can be seen in more detail. If you select HLC, a submenu appears where you can make finer adjustments as below.

> MODE : OFF / ON / NIGHT (Default : OFF)

▷ LEVEL : 0 ~ 20 steps (Default : 10)▷ COLOR : 0 ~ 13 steps (Default : 8)

- DNR : This function is used to improve the picture quality by filtering the noise which is generated under low brightness conditions. You can set different levels as below.
- (OFF / LOW / MIDDLE / HIGH / AUTO)
 GAMMA : Adjust Gamma value. (0.45~0.75)
- COLOR/B&W: Set Color or B&W in ALL DAY mode and ALL NIGHT mode.
- IR CONTROL: Set IR ON or OFF in ALL DAY mode and ALL NIGHT mode.

FOCUS

Move the triangular indicator to LENS using the Up and Down buttons on the Set Up menu screen.



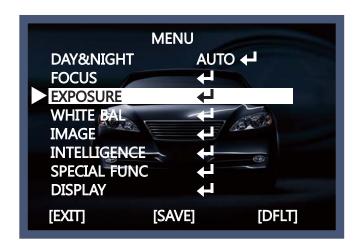


◆ FOCUS : Select auto focus mode. (AUTO, ONE PUSH, MANUAL)

- ◆ DISTANCE : Select minimum distance in focus between camera and object. 0.1 / 1.0 / 3.0 / 5.0 / 10.0 m
- ◆ ZOOM SPEED : Select zoom speed. 0 (Slow) ~ 7 (Fast)
- ◆ LENS REFRESH: Lens origin calibrated automatically. (ONE PUSH / ON (1 day ~ 10 days)
- ◆ E.ZOOM : Select maximum digital zoom magnification. OFF / ON (max x2 ~ x19, x21, x23, x25, x28, x32)

EXPOSURE

On the Set Up menu, select EXPOSURE by using the Up or Down button.





◆ FLICKERLESS : Select flickerless mode.

WHITE BAL

Use this function when the color adjustment of a screen is needed.

- 1. Move the triangular indicator to WHITE BAL on the SETUP menu screen using the Up and Down button.
- 2. Select the desired mode by using the left or Right button.



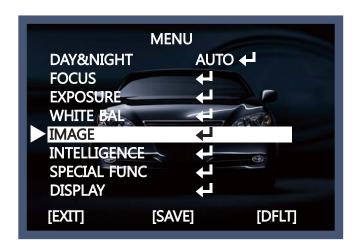


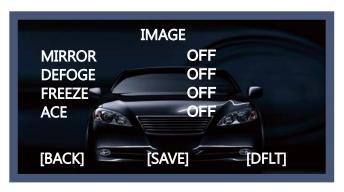
- ◆ MODE : The function to search for the color which is matched well with the ambient environment.
 - ONE PUSH
- AUTO: The function to search for the color which is matched well with the ambient environment.
- MANUAL : Color can be corrected when the user increases or decreases "RED GAIN" or "BLUE GAIN".
- INDOOR: Set color temperature to be indoor light. (3700°K)
- OUTDOOR: Set color temperature to be outdoor light. (5100°K)
- ◆ RED GAIN : Adjust RED GAIN level in WHITE BALANCE MANUAL mode.
- ◆ BLUE GAIN : Adjust BLUE GAIN level in WHITE BALANCE MANUAL mode.

◆ CHROMA : Adjust general color amplification.

IMAGE

The function is used to optimize the image quality by adjusting different settings. Move the triangular indicator Up or Down to select the desired feature by pressing the Up or Down button.

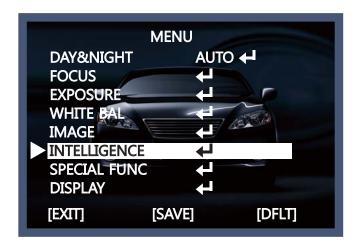




- ◆ MIRROR : Mirrors the image on the screen.
 - H: You can flip the picture horizontally on the screen.
 - V : You can flip the picture vertically on the screen.
 - H&V: You can flip the picture horizontally & vertically on the screen.
- ◆ DEFOG: This function helps to recognize the object in a dusty weather condition. ON, a submenu appears where you can make finer adjustments as below.
 - MODE : OFF / AUTO / MANUAL
 - LEVEL: LOW / MIDDLE / HIGH

- X Can't use DEFOG and ACE at the same time.
 (When DEFOG is on, ACE IS OFF.)
- ◆ FREEZE : Select real or still mode. (OFF / ON)
- ◆ ACE : Intelligent lighting level control to overcome even strong backlight conditions. (OFF / LOW / MIDDLE / HIGH)

INTELLIGENCE

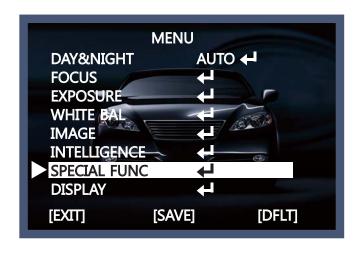




- ◆ PRIVACY: This is used to hide certain areas on the monitor. Users have the ability to set up privacy zones ranging from 1 to 24. In addition, users can also change the color of the zone. The size of a designated area can be adjusted. When you select the return, the setting values in this function menu are saved, then get out of this menu.
 - MASK# : Select mask area number. (1~24)
 - MODE: Mask enable or disable. (OFF/ON)
 - POSITION: Adjust the mask position.
 - SIZE: Adjust the mask size.

- COLOR: Select mask color. (0~13)
- TRANS : Select mask transparency level. (0~3)
- ◆ MOTION : When there is movement of the subject in the screen, there will be an motion detection.
 - AREA# : Setting 3 areas(1~3) of motion deection.
 - MODE: OFF / ON (Select motion detect for specific area.)
 - SENSITIVITY(0~20) : The higher the setting value is, the higher the sensitivity gets.
 - POSITION: Adjst the area position.
 - SIZE: Adjust the area size.
 - INTERVAL TIME : Select the alarm interval time. (0~255sec)
 - DWELL TIME : Select the duration time about changing MD mode. (0~255sec)
 - ZOOM PRESET: Select motion zoom preset mode and position.
- ◆ DIS : Select digital image stabilizer mode.
 - RANGE: Setting the image compensation reng. (10%, 20%, 30%)
 - FILTER: Setting the sensitivity to hold DIS function in worst case. (LOW, MIDDLE, HIGH)
 - AUTO C : Setting auto centering mode. (OFF. HALF, FULL)

SPECIAL FUNC





- ◆ DEFECT: Compensates for bad pixels that may occur. Occurs when the whole screen is in full black or if there is bad pixelation and it changes the THRS values until the screen is fixed.
- ** When you use this function, you have to block the lens for blocking lights into the lens.

◆ IMAGE RANGE : Select image bit range. (Full : 100%, Compressed : 75%)

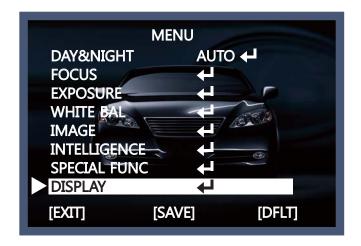
- COMP: 75%

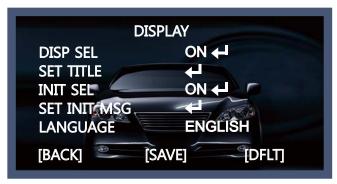
- USER: 75% ~ 100%

- FULL: 100%

- ◆ SYSTEM: Select NTSC(30/60fps) or PAL(25/50fps).
- ◆ HD FORMAT : Select digital output. (1080p/30(25)fps, 1080p/60(50)fps, 720p/30(25)fps, 720p/60(50)fps)
- ◆ COMM : Set up the camera ID, baud rate, protocol.
 - ID: Select the camera ID. (1~255)
 - BAUD RATE : Select serial communication speed.
 (2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200bps)
 - PROTOCOL : Select operating protocol.(VISCA / PELCO-D / PELCO-P / UPDATE)

DISPLAY





◆ DISP SEL : Select display item. (ON/OFF)

▷ID : OFF / ON
▷TITLE : OFF / ON

>ZOOM RATIO: OFF / ON

>SYSTEM MSG : OFF / ON (MD alarm and wait message)

◆ SET TITLE : Select camera title menu. (Text edit– max 40 characters)

◆ INIT SEL : Select display initial message.

- ID: OFF / ON

BAUDRATE : OFF / ONPROTOCOL : OFF / ONVERSION : OFF / ONINIT MSG : OFF / ON

◆ SET INIT MSG: Modify initial message. (Text edit – max 40 characters)

◆ LANGUAGE : Select language. English / Simplified Chinese / Traditional Chinese / Japanese

Trouble Shooting

PROBLEM	POSSIBLE CAUSE
Nothing appears on the screen.	Check the power cable, power supply output and video connection between the camera and monitor.
The image on the screen is dim.	 Are the camera lens or the lens glass dirty? Clean the lens / glass with a soft clean cloth. Adjust the monitor controls, as required. If the camera is facing a very strong light, change the camera position. Adjust the lens focus.
The image on the screen is dark.	Adjust the contrast control of the monitor.If there is an intermediate device, correctly set the 75Ω/Hz.
The camera is not working properly and the surface of the camera is hot.	© Check the camera is correctly connected to an appropriate regulated power source.
Motion Detection is not activated.	■ Has MOTION DET been set to ON in the menu? ■ Has MD AREA been properly defined?
The color of the picture is not correct.	© Check the settings in WHITE BALANCE menu.
The image on the screen flickers.	Make sure that the camera isn't facing direct sunlight or fluorescent lighting. If necessary, change the camera position.
The SENS-UP does not work.	© Check that the AGC setting in the EXPOSURE menu is't set to OFF.



LIMITED WARRANTY - VIDEO PRODUCTS

THIS WARRANTY IS VALID ONLY ON PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA AND CANADA. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL USER.

SUBJECT TO CONDITIONS AND EXCLUSIONS FOUND BELOW, THIS PRODUCT IS WARRANTED AGAINST MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FOR PARTS AND LABOR:

SPECO TECHNOLOGIES CAMERAS 5 YEARS	DVRs3 YEARS
SPECO TECHNOLOGIES IP CAMERAS 2 YEARS	NVRs3 YEARS
SPECO PTZ AND VL CAMERAS1 YEAR	BALANCE OF
SPECO TECHNOLOGIES MONITORS 1 YEAR	SPECO TECHNOLOGIES LINE1 YEAR
IR LEDS90 DAYS	

SPECO TECHNOLOGIES WILL REPAIR OR REPLACE (AT OUR DISCRETION) ANY PARTS FOUND TO BE DEFECTIVE FOR THE WARRANTY PERIOD SPECIFIED. WE WILL PROVIDE A REPLACEMENT FOR ANY DEFECTIVE PART.

CONDITIONS

- 1. YOU MUST OBTAIN A RETURN AUTHORIZATION (RA) NUMBER FOR ANY MERCHANDISE BEING RETURNED TO SPECO TECHNOLOGIES, WHETHER FOR RETURN/EXCHANGE OR REPAIR, WHETHER IN OR OUT OF WARRANTY.
- 2. THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP.
- 3. TRANSPORTATION OF THE PRODUCT TO OUR SERVICE DEPARTMENT IS THE RESPONSIBILITY OF THE USER. REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD.
- 4. SPECO TECHNOLOGIES DOES NOT AUTHORIZE ANY INTERNET OR MAIL ORDER PRODUCT SALES. IF A SPECO TECHNOLOGIES PRODUCT IS PURCHASED FROM AN UNAUTHORIZED DISTRIBUTOR OR OTHER SOURCE, INCLUDING RETAILERS, MAIL ORDER SELLERS AND ONLINE SELLERS, IT WILL NOT BE HONORED OR SERVICED UNDER THE EXISTING SPECO TECHNOLOGIES WARRANTY POLICY. ANY SPECO TECHNOLOGIES PRODUCT PURCHASED FROM THESE ONLINE MERCHANTS WILL VOID THE APPLICABLE WARRANTY AND IS INELIGIBLE FOR TECHNICAL SUPPORT. IF YOU HAVE QUESTIONS ABOUT A RESELLER, PLEASE CONTACT SPECO TECHNOLOGIES AT 1-800-645-5516 FOR A LIST OF UNAUTHORIZED DEALERS, VISIT: www.specotech.com/unauthorized.

EXCLUSIONS

- 1. THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE Model 's INSTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.
- 2. THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR
- 3. THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INCLUDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OR FAILURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUSE, NEGLECT, ACCIDENT, FIRE, FLOOD, OR OTHER ACTS OF NATURE, INCORRECT LINE VOLTAGE, DAMAGE OR IMAGE BURNS TO TELEVISION PICTURE TUBES CAUSED BY OR ATTRIBUTABLE TO THE USE OF ANY ACCESSORY, ELECTRONICS GAME OR DEVICE, OR DAMAGE CAUSED TO IMAGE PICKUP DEVICES BY EXCESSIVE LIGHT.

THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND WE DO NOT AUTHORIZE ANY PARTY TO ASSUME FOR US ANY OTHER OBLIGATION OR LIABILITY. IN NO EVENT SHALL WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM

THE USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE USE OF THIS PRODUCT DUE TO CAUSES BEYOND OUR CONTROL. SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS ON IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGES MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

NOTE: FOR YOUR PROTECTION IN THE EVENT OF THEFT OR LOSS OF THIS PRODUCT, PLEASE FILL IN THE INFORMATION REQUESTED BELOW AND RETAIN WITH YOUR SALES RECEIPT.

	BACK OR BOTTOM OF U		
DATE OF PURC	HASE:		
WHERE PURCH	HASED:	PURCHASE PRICE:	
	Speco Technologies		

200 New Highway
Amityville, NY 11701
www.specotech.com

FOR MORE INFORMATION REGARDING SERVICE OR RETURN,
CALL US TOLL FREE: 1-800-645-5516 IN METRO NY: 631-957-8700

ALWAYS USE DISCRETION WHEN INSTALLING VIDEO AND/OR AUDIO SURVEILLANCE EQUIPMENT ESPECIALLY WHEN THERE IS AN EXPECTATION OF PRIVACY. INQUIRE REGARDING FEDERAL, STATE AND/OR LOCAL REGULATIONS APPLICABLE TO THE LAWFUL INSTALLATION OF VIDEO AND/OR AUDIO RECORDING OR SURVEILLANCE EQUIPMENT. PARTY CONSENT MAY BE REQUIRED.