INSTRUCTION MANUAL

Intense-IR Series 1000TVL

HT7040K/HT7042K (Outdoor IR Bullet Camera) HT6040K (Outdoor IR Turret Camera) HT5940K (Outdoor IR Dome Camera) VL7038K (Outdoor IR Bullet Camera) HT649K (Indoor IR Dome Camera)



Speco Technologies is constantly developing product improvements. We reserve the right to modify product design and specifications without notice and without incurring any obligation.

Rev. 3/01/2016

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Precautions

Do not install the camera in extreme temperature conditions.

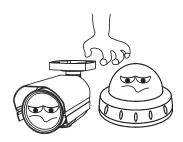


Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures. Do not install the camera under



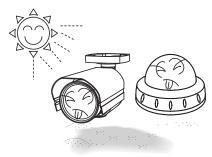
Severe lighting change or flicker can cause the camera to work improperly.

Do not touch the front lens of the camera.



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.



It can cause malfunctions to occur.

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



Housing damage can compromise weatherproof ratings.

Do not expose the camera to radioactivity.



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: To 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 :

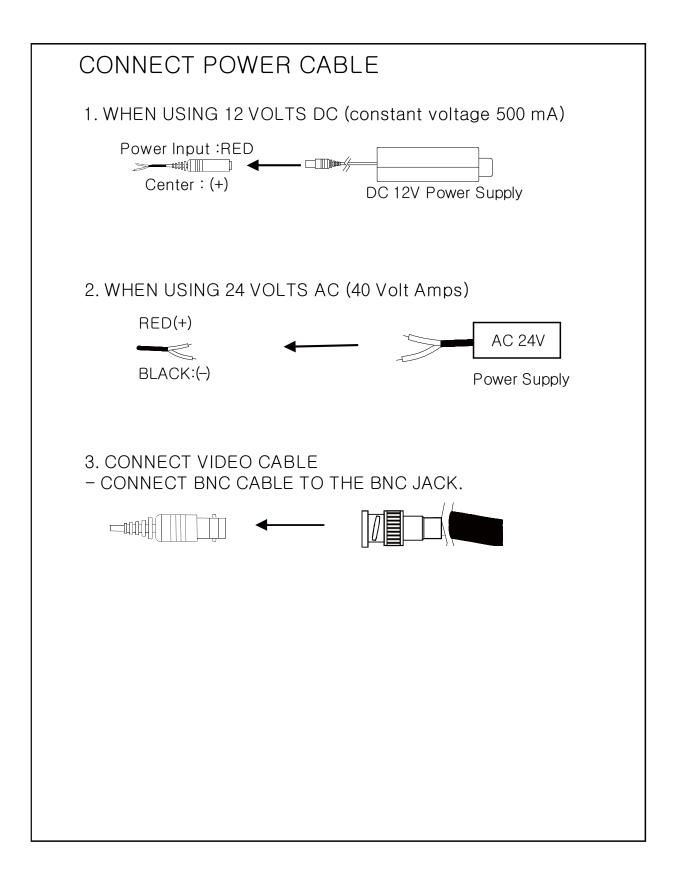
- Do not use a strong or abrasive detergent when cleaning the camera
- Do not install near cooling or heating device

Package Contents

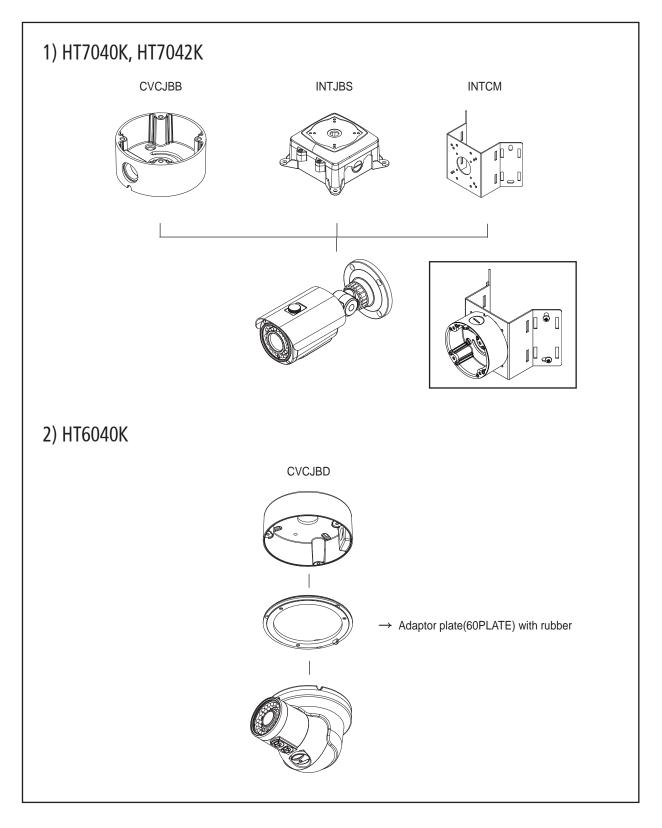
Please make sure that the following items are included in the Package:

1) HT7040K, HT7042K • 1 Video Test Connector, Power Jack • 1 Focus Adjustment • 1 Bracket Base • 1 Wrench • Set Screw - 4 Tapping Screws 4x25 - 4 Hexagon Socket Screws M5x10 2) HT6040K 1 Video Test Connector, Power Jack • 2 Wrenches Set Screw - 3 Tapping Screws 4x25 3) HT5940K • 1 Video Test Connector, Power Jack 1 Chameleon Cover • 1 Wrench Set Screw - 3 Tapping Screws 3.5x20 4) VL7038K • 1 Video Test Connector, Power Jack • 1 Bracket Base 2 Wrenches • Set Screw - 4 Tapping Screws 4x25 - 4 Hexagon Socket Screws M5x15 5) HT649K • 1 Video Test Connector, Power Jack

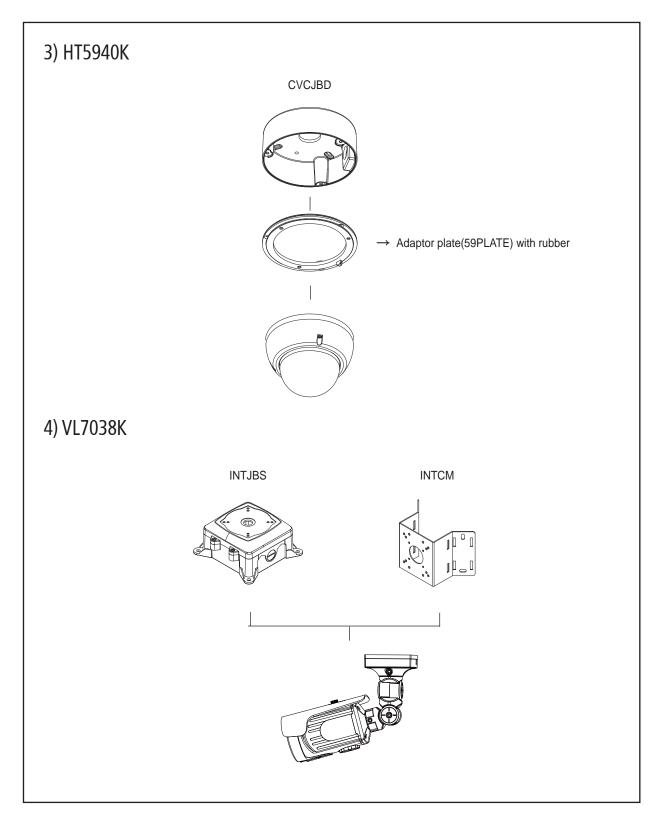
- 1 Chameleon Cover
- Set Screw
- 3 Tapping Screws 4x25



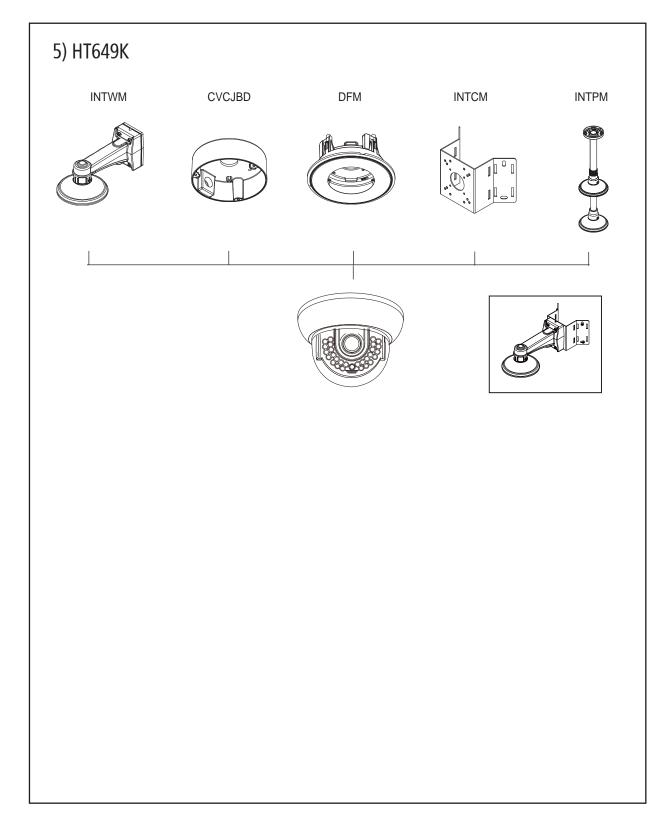
Compatibility



Compatibility



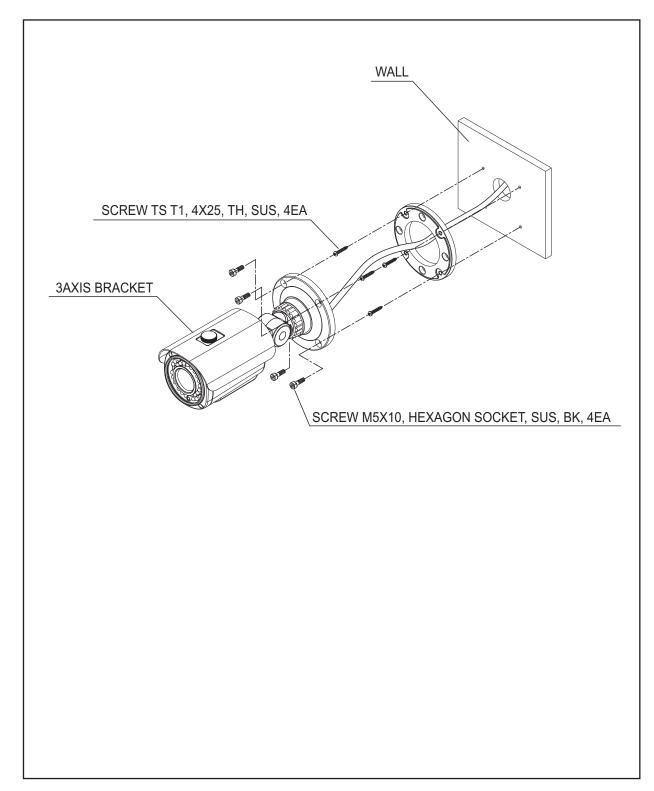
Compatibility



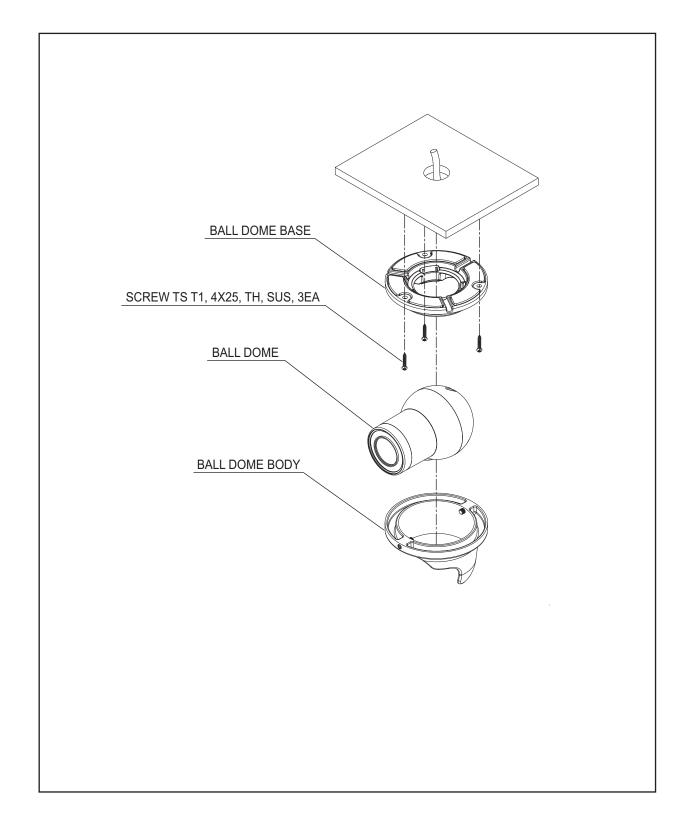
CAUTION : <u>The installation instructions in this manual</u> are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAMERA INSTALLATION

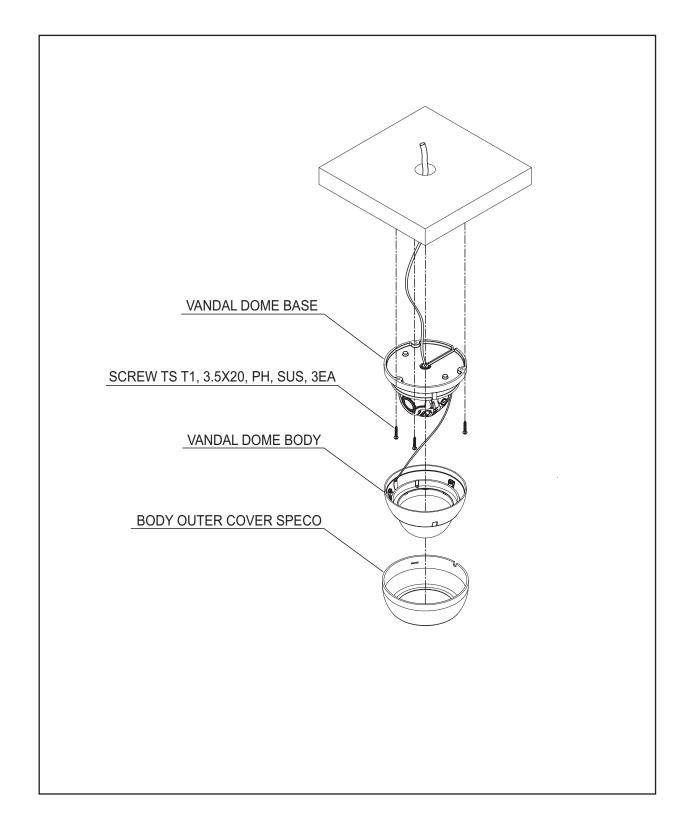
1. HT7040K, HT7042K



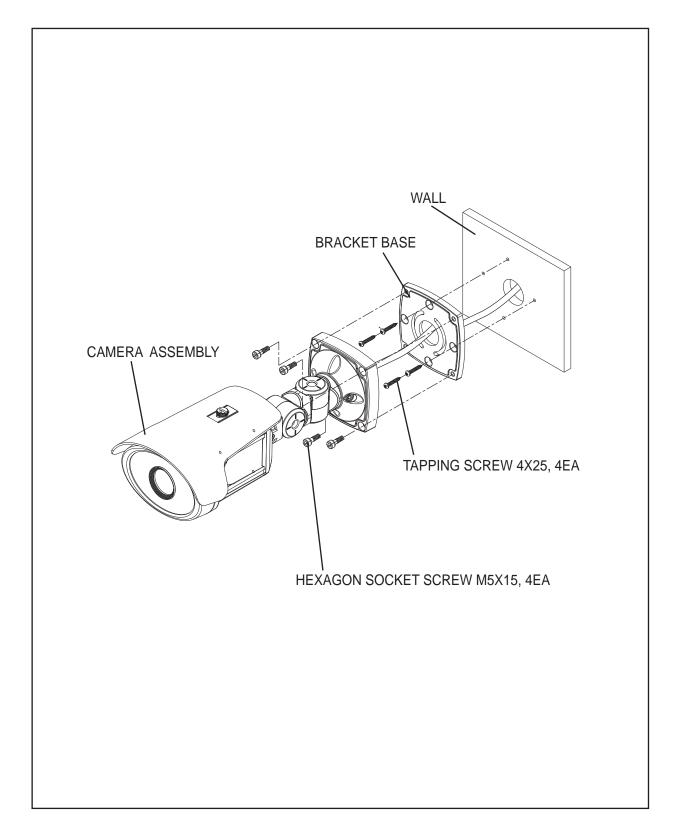
2. HT6040K



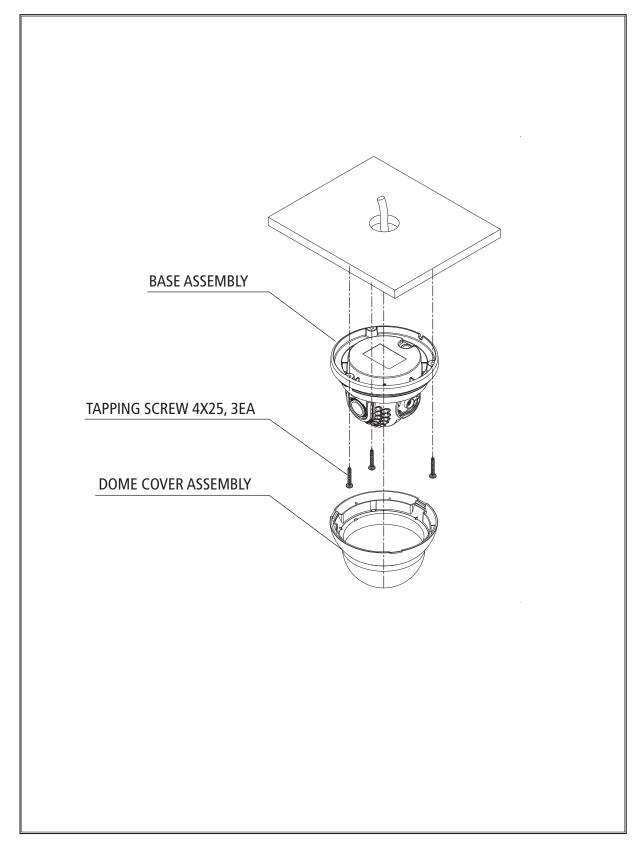
3. HT5940K



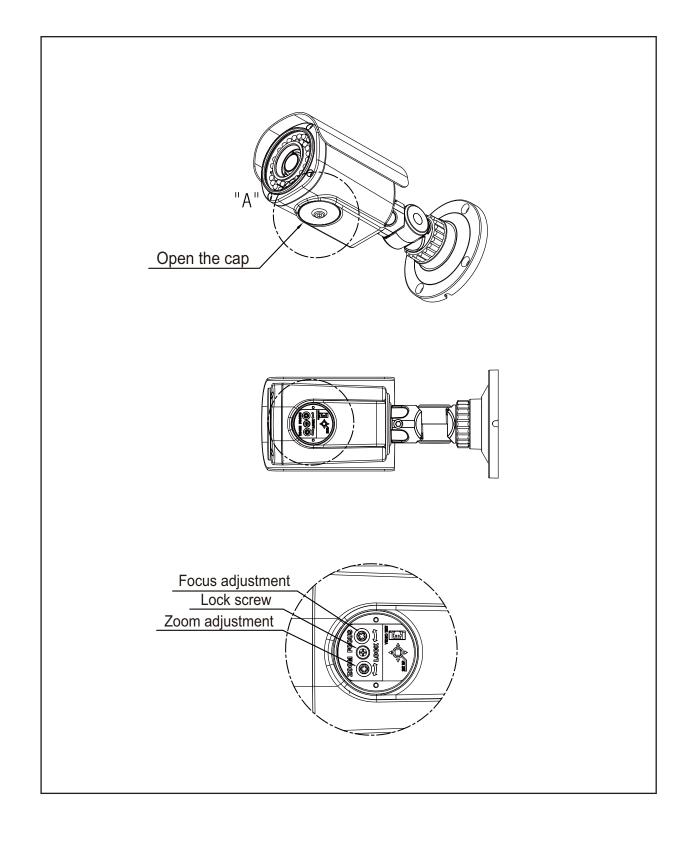
4. VL7038K



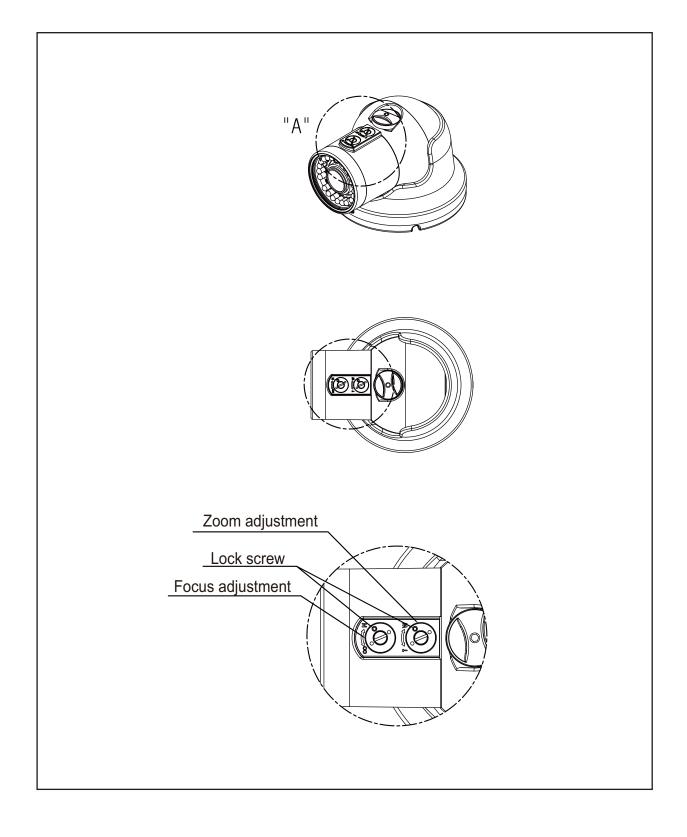
5. HT649K



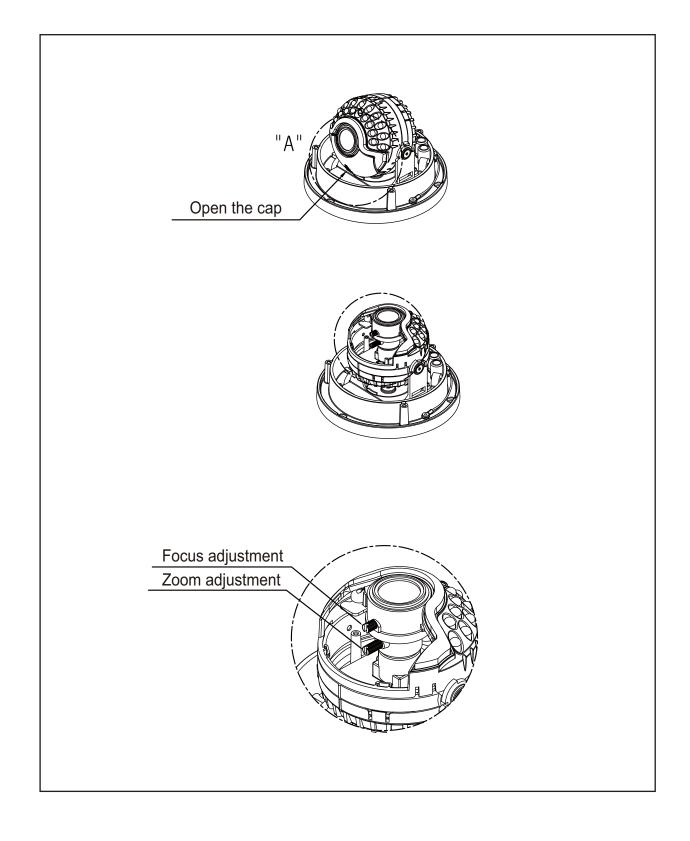
1. HT7040K, HT7042K



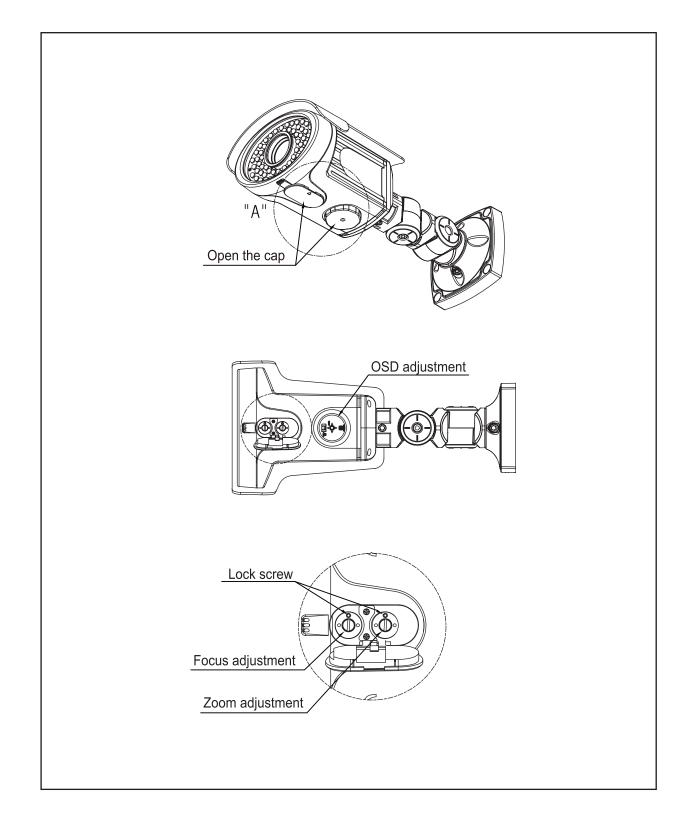
2. HT6040K



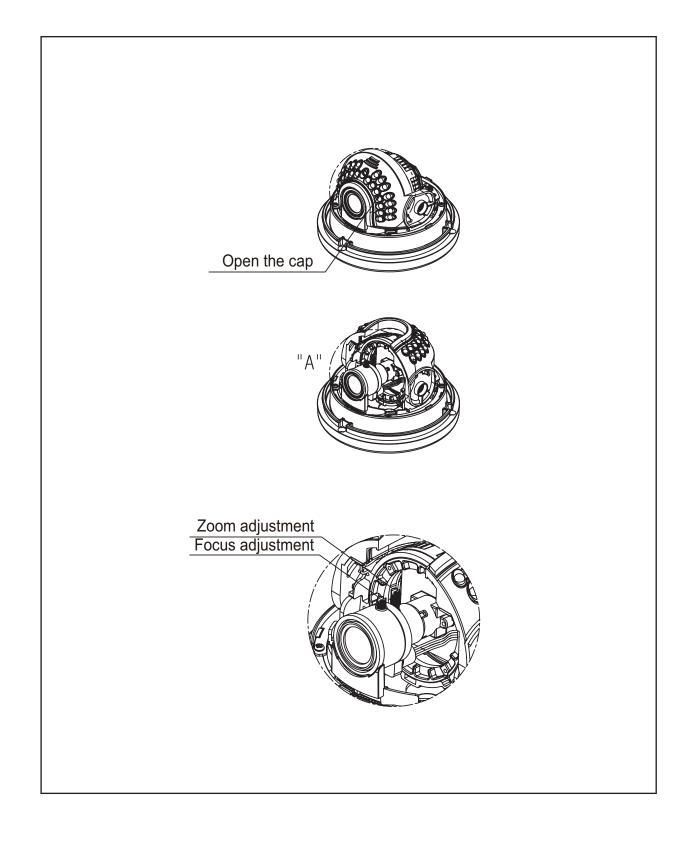
3. HT5940K



4. VL7038K



5. HT649K



DC Auto Iris Varifocal Lens 2.8-12mm / 5-50mm



HT7040K(2.8-12mm)
 HT7042K(5-50mm)



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SPECIFICATIONS

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MODEL	HT7040K / HT7042K			
Image Sensor	1/3" 1.3MP SONY Sensor			
Resolution	1000TV Lines			
Effective Pixels	1305(H) X 1049(V), 1.37M Pixels			
Total Pixels	1312(H) X 1069(V), 1.40M Pixels			
Scanning System	Progressive Scan			
S/N Ratio	More than 50dB			
Frame rate	MAX 50P/60P			
Video Output	CVBS : 1.0Vp-p/75 Ohm			
Minimum Illumination	Lux(Intensify x64)			
LENS	DC/MANUAL			
Electronic Shutter Speed	AUTO / Manual(1/60Sec ~ 1/60000Sec) / FLICKER			
OSD	Built-in			
BLC	0			
HSBLC	0			
WDR (Wide Dynamic Range)	ON(LOW,MIDDLE,HIGH) / OFF			
Digital WDR	ON(LOW/MIDDLE/HIGH) / OFF			
Day&Night	Color/BW/EXTERN/Auto			
White Balance	ATW/AWB/AWC->SET/MANUAL			
Smart-IR	0~20(Level Adjustable), Default : 0			
Sense-Up	x2 ~ x64, Default : x16			
Motion Detection	ON / OFF (Programmable 4 Zones)			
Motion Tracking (Quick Zoom)	ON/OFF			
OSD output for Anti Shifting	ON/OFF			
OSD output for Anti Blocking	ON/OFF			
3D DNR	OFF/LOW/MIDDLE/HIGH			
Defog	ON(AUTO/MANUAL) / OFF			
Brightness	0~20 (Level Adjustable), Default : 10			
AGC	0~20 (Level Adjustable), Default : 15			
Privacy Masking	ON / OFF (Programmable 16 Zones)			
Mirror / V-FLIP	ON/OFF			
Sharpness	0~10 (Level Adjustable), Default : 7			
LensShading Compensation (LSC)	ON/OFF			
RS-485(Protocol)	Available			
View Angle	WIDE 4:3 / Normal / WIDE 16:9			
CVBS OUTPUT	NTSC / PAL selectable			
Communication	Coaxial Control			
Language	English			
Power Supply	DC12V/AC24V Dual Voltage Operation			
Power Consumption	IR LED ON:DC 12V 700mA/AC 24V 350mA, IR LED OFF:DC 12V 230mA/AC 24V 120mA			
Storage Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Operating Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Lens	DC Auto Iris Varifocal Lens(2.8mm-12mm / 5-50mm)			
Dimension	3.94"(W) * 3.94"(H) * 8.27"(D)			
Weight	3.09 lbs			

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DC Auto Iris Varifocal Lens 2.8-12mm



HT6040K



SPECIFICATIONS

MODEL	HT6040K			
Image Sensor	1/3" 1.3MP SONY Sensor			
Resolution	1000TV Line s			
E ective Pixels	1305(H) X 1049(V) , 1.37M Pixel s			
Total Pixels	1312(H) X 1069(V) , 1.40M Pixel s			
Scanning System	Progressive Sca n			
S/N Ratio	More than 50dB			
Frame rat e	MAX 50P/60P			
Video Output	CVBS : 1.0Vp-p/75 Oh m			
Minimum Illuminatio n	0Lux(Intensify x64)			
LENS	DC/MAN UAL			
Electronic Shutter Spee d	AUTO / Manual(1/60Sec ~ 1/60000Sec) / FLICKE R			
OSD	Built-in			
BLC	0			
HSBLC	0			
WDR (Wide Dynamic Range)	ON(LOW ,MIDDLE,HIGH) / OFF			
Digital WD R	ON(LOW/MIDDLE/HIGH) / OFF			
Day&Night	Color/BW/EXTERN/Aut o			
White Balanc e	ATW/AWB/ AWC->SET/MAN UAL			
Smart-I R	0~20(Level Adjustable), Default: 0			
Sense-Up	x2 ~ x64, Default : x16			
Motion Detection	ON / OFF (Programmable 4 Zones)			
Motion Tracking (Quick Zoom)	ON/OFF			
OSD output for Anti Shifting	ON/OFF			
OSD output for Anti Blocking	ON/OFF			
3D DN R	OFF/LOW/MIDDLE/HIGH			
Defo g	ON(A UTO/MANU AL) / OFF			
Brightness	0~20 (Level Adjustable), Default : 10			
AGC	0~20 (Level Adjustable), Default : 15			
Privacy Masking	ON / OFF (Programmable 16 Zones)			
Mirror / V-FLIP	ON/OFF			
Sharpness	0~10 (Level Adjustable), Default : 7			
LensShading Compensation (LSC)	ON/OFF			
RS-485(Protocol)	Available			
View Angle	WIDE 4:3 / Normal / WIDE 16:9			
CVBS OUTPU T	NTSC / P AL selectable			
Communication	Coaxial Control			
Language	English			
Power Supply	DC12V/A C24V Dual Voltage Operation			
Power Consumption	IR LED ON:DC 12V 450mA/AC 24V 190mA, IR LED OFF:DC 12V 260mA/AC 24V 130m A			
Storage Temperature	$-4^{\circ}F \sim +140^{\circ}F(\text{Humidity}: 20\%\text{RH} \sim 95\%\text{RH})$			
Operating Temperature	$-4^{\circ}F \sim +140^{\circ}F(\text{Humidity}: 20\%\text{RH} \sim 95\%\text{RH})$			
Lens	DC Auto Iris Varifocal Lens(2.8mm-12mm)			
Dimension Weight	4.65"(Dia) * 3.80"(H)			
Weight	1.99 lbs			

DC Auto Iris Varifocal Lens 2.8-12mm



HT5940K



SPECIFICATIONS

MODEL	HT5940K			
Image Sensor	1/3" 1.3MP SONY Sensor			
Resolution	1000TV Line s			
E ective Pixels	1305(H) X 1049(V) , 1.37M Pixel s			
Total Pixels	1312(H) X 1069(V) , 1.40M Pixel s			
Scanning System	Progressive Scan			
S/N Ratio	More than 50dB			
Frame rat e	MAX 50P/60P			
Video Output	CVBS : 1.0Vp-p/75 Oh m			
Minimum Illuminatio n	OLux(Intensify x64)			
LENS	DC/MAN UAL			
Electronic Shutter Spee d	AUTO / Manual(1/60Sec ~ 1/60000Sec) / FLICKE R			
OSD	Built-i n			
BLC	0			
HSBLC	0			
WDR (Wide Dynamic Range)	ON(LOW ,MIDDLE,HIGH) / OFF			
Digital WDR	ON(LOW/MIDDLE/HIGH) / OFF			
Day&Night	Color/BW/ESTREN/Aut o			
White Balanc e	ATW/AWB/ AWC->SET/MAN UAL			
Smart-I R	0~20(Level Adjustable) , Default : 0			
Sense-Up	x2 ~ x64, Default : x16			
Motion Detection	ON / OFF (Programmable 4 Zones)			
Motion Tracking (Quick Zoom)	ON/OFF			
OSD output for Anti Shifting	ON/OFF			
OSD output for Anti Blocking	ON/OFF			
3D DN R	OFF/LOW/MIDDLE/HIG H			
Defo g	ON(AUTO/MANU AL) / OFF			
Brightness	0~20 (Level Adjustable), Default : 10			
AGC	0~20 (Level Adjustable), Default : 15			
Privacy Masking	ON / OFF (Programmable 16 Zones)			
Mirror / V-FLIP	ON/OFF			
Sharpness	0~10 (Level Adjustable), Default: 7			
LensShading Compensation (LSC)	ON/OFF			
RS-485(Protocol)	Available			
View Angle	WIDE 4:3 / Normal / WIDE 16: 9			
CVBS OUTPU T	NTSC / P AL selectabl e			
Communication	Coaxial Contro I			
Language	English			
Power Supply	DC12V/ AC24V Dual Voltage Operatio n			
Power Consumption	IR LED ON:DC 12V 510mA/AC 24V 210mA, IR LED OFF:DC 12V 270mA/AC 24V 120m A			
Storage Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Operating Temperature	_4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Lens	DC Auto Iris Varifocal Lens(2.8mm-12mm)			
Dimension	4.72"(Dia) * 3.35"(H)			
Weight	2.20 lbs			

DC Auto Iris Varifocal Lens 2.8-12mm



VL7038K



SPECIFICATIONS

MODEL	VL7038K			
Image Sensor	1/3" 1.3MP SONY Sensor			
Resolution	1000TV Lines			
Effective Pixels	1305(H) X 1049(V), 1.37M Pixels			
Total Pixels	1312(H) X 1069(V), 1.40M Pixels			
Scanning System	Progressive Scan			
S/N Ratio	More than 50dB			
Frame rate	MAX 50P/60P			
Video Output	CVBS : 1.0Vp-p/75 Ohm			
Minimum Illumination	OLux(Intensify x64)			
LENS	DC/MANUAL			
Electronic Shutter Speed	AUTO / Manual(1/60Sec ~ 1/60000Sec) / FLICKER			
OSD	Built-in			
BLC	0			
HSBLC	0			
WDR (Wide Dynamic Range)	ON(LOW,MIDDLE,HIGH) / OFF			
Digital WDR	ON(LOW/MIDDLE/HIGH) / OFF			
Day&Night	Color / BW / EXTERN / Auto			
White Balance	ATW / AWB / AWC -> SET / MANUAL			
Smart-IR	0~20(Level Adjustable), Default : 0			
Sense-Up	x2 ~ x64, Default : x16			
Motion Detection	ON / OFF (Programmable 4 Zones)			
Motion Tracking (Quick Zoom)	ON/OFF			
OSD output for Anti Shifting	ON/OFF			
OSD output for Anti Blocking	ON/OFF			
3D DNR	OFF/LOW/MIDDLE/HIGH			
Defog	ON(AUTO/MANUAL) / OFF			
Brightness	0~20 (Level Adjustable), Default : 10			
AGC	0~20 (Level Adjustable), Default : 15			
Privacy Masking	ON / OFF (Programmable 16 Zones)			
Mirror / V-FLIP	ON/OFF			
Sharpness	0~10 (Level Adjustable), Default : 7			
LensShading Compensation (LSC)	ON/OFF			
RS-485(Protocol)	Available			
View Angle	WIDE 4:3 / Normal / WIDE 16:9			
CVBS OUTPUT	NTSC / PAL selectable			
Communication	Coaxial Control			
Language	English			
Power Supply	DC12V/AC24V Dual Voltage Operation			
Power Consumption	IR LED ON : DC 12V 750mA/AC 24V 165mA, IR LED OFF : DC 12V 400mA/AC 24V 95mA			
Storage Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Operating Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Lens	DC Auto Iris Varifocal Lens(2.8mm-12mm)			
Dimension	5.31"(W) * 3.74"(H) * 11.57"(D)			
Weight	3.96 lbs			

1

DC Auto Iris Varifocal Lens 2.8-12mm



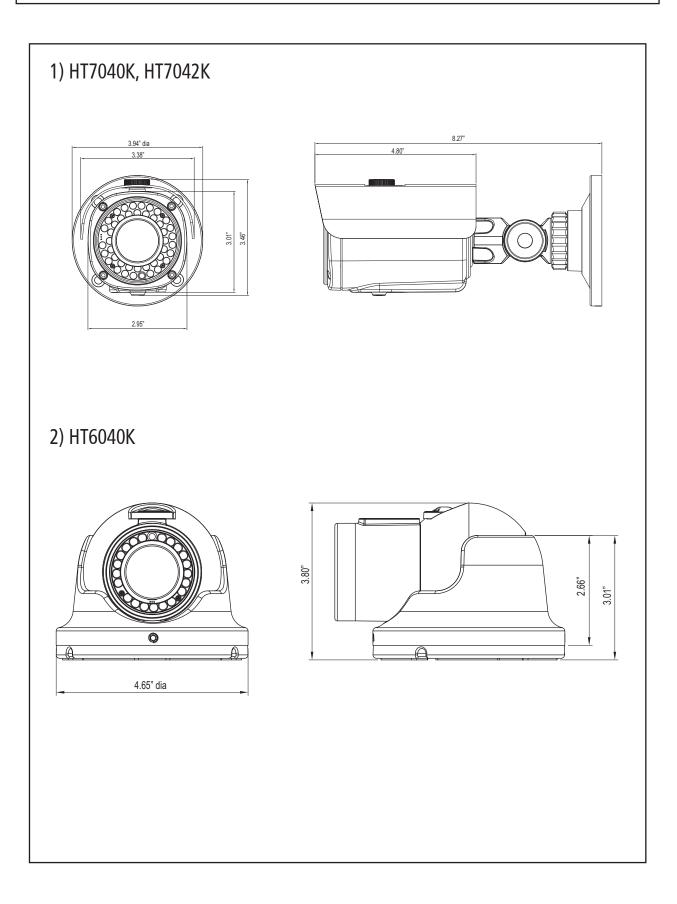
HT649K(2.8~12mm)



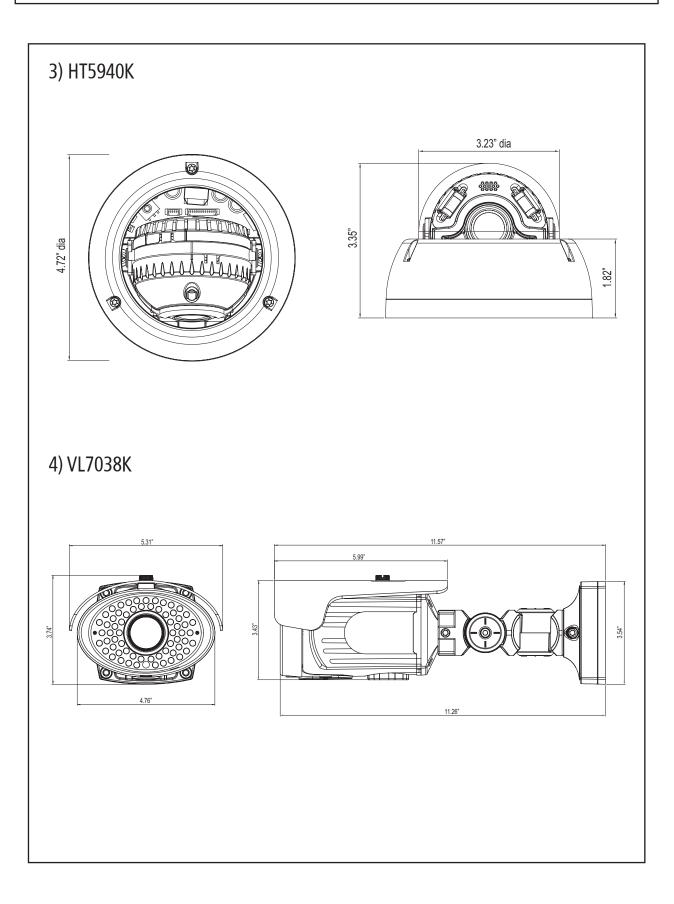
SPECIFICATIONS

MODEL	НТ649К			
Image Sensor	1/3" 1.3MP SONY Sensor			
Resolution	1000TV Lines			
Effective Pixels	1305(H) X 1049(V), 1.37M Pixels			
Total Pixels	1312(H) X 1069(V), 1.40M Pixels			
Scanning System	Progressive Scan			
S/N Ratio	More than 50dB			
Frame rate	MAX 50P/60P			
Video Output	CVBS : 1.0Vp-p/75 Ohm			
Minimum Illumination	OLux(Intensify x64)			
LENS	DC/MANUAL			
Electronic Shutter Speed	AUTO / Manual(1/60Sec ~ 1/60000Sec) / FLICKER			
OSD	Built-in			
BLC	0			
HSBLC	0			
WDR (Wide Dynamic Range)	ON(LOW,MIDDLE,HIGH) / OFF			
Digital WDR	ON(LOW/MIDDLE/HIGH) / OFF			
Day&Night	Color/BW/ESTREN/Auto			
White Balance	ATW/AWB/AWC->SET/MANUAL			
Smart-IR	0~20(Level Adjustable), Default : 0			
Sense-Up	x2 ~ x64, Default : x16			
Motion Detection	ON / OFF (Programmable 4 Zones)			
Motion Tracking (Quick Zoom)	ON/OFF			
OSD output for Anti Shifting	ON/OFF			
OSD output for Anti Blocking	ON/OFF			
3D DNR	OFF/LOW/MIDDLE/HIGH			
Defog	ON(AUTO/MANUAL) / OFF			
Brightness	0~20 (Level Adjustable), Default : 10			
AGC	0~20 (Level Adjustable), Default : 15			
Privacy Masking	ON / OFF (Programmable 16 Zones)			
Mirror / V-FLIP	ON/OFF			
Sharpness	0~10 (Level Adjustable), Default : 7			
LensShading Compensation (LSC)	ON/OFF			
RS-485(Protocol)	Available			
View Angle	WIDE 4:3 / Normal / WIDE 16:9			
CVBS OUTPUT	NTSC / PAL selectable			
Communication	Coaxial Control			
Language	English			
Power Supply	DC12V/AC24V Dual Voltage Operation			
Power Consumption	IR LED ON:DC 12V 510mA/AC 24V 210mA, IR LED OFF:DC 12V 270mA/AC 24V 120mA			
Storage Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Operating Temperature	-4°F ~ +140°F(Humidity : 20%RH ~ 95%RH)			
Lens	DC Auto Iris Varifocal Lens 2.8-12mm			
Dimension				
Dimension	5.12"(Dia) * 3.94"(H)			

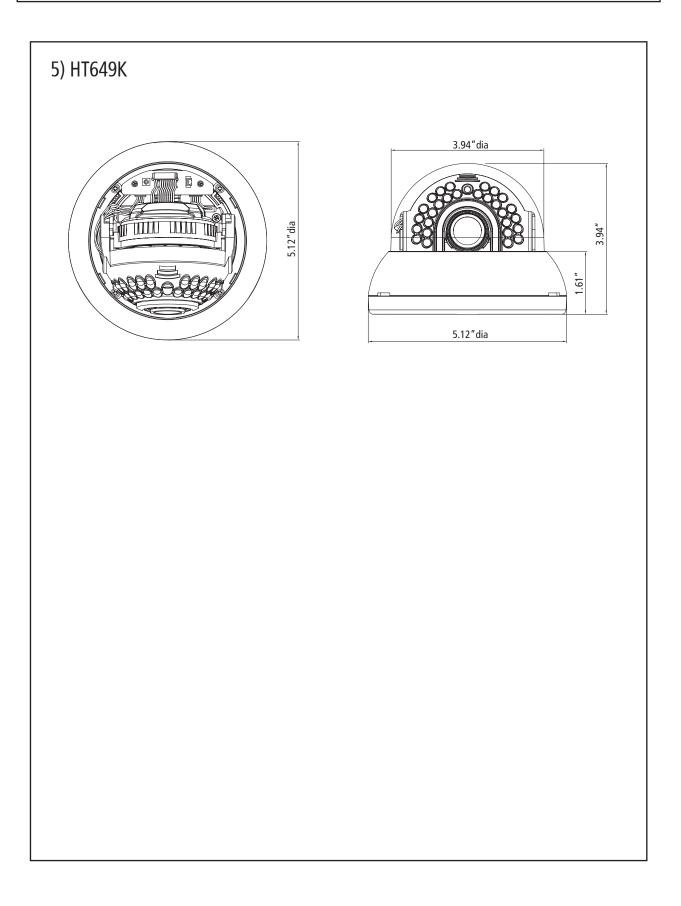
CAMERA DIMENSION



CAMERA DIMENSION



CAMERA DIMENSION



General Features

• 1000 TV Lines

1.3 MEGA HD ANALOG 1000 TVL combined with SONY EXMOR SENSOR (IMX 138)

• WDR (Wide Dynamic Range)

A powerful and ultra-advanced technology that captures cleaner and superior high resolution picture even where images appear dark because there is a strong back light present.

PRESET

Preset (Indoor, Outdoor, Low light, Hallway, Lobby, Elevator) is provided to maximize user convenience.

• DNR (Digital Noise Reduction)

SMART 3D DNR prevents the image blurring of moving objects and activates only when moving objects appear on the scene.

• SMART IR

No saturation image, vivid image in darkness. it 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.

• INTENSIFY

INTENSIFY - Max. up to x64 helps get dark images visible and make it clear images in a low light environment.

• DEFOG

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

• CVBS (Composite Video Blanking and Sync)

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

• INTELLIGENCE

An extraordinary technology enables to become an ultimate analog solution by providing intelligent features based on motion tracking. it strengthens crime prevention & detection.

How to Set Up the camera menu

Setup Menu PRESET MODE MENU

*Fixed board lens type camera is available for "MANUAL" option in LENS menu only.

MAIN SETUP						
	INDOOR	OUTDOOR	LOW LIGHT	HALL WAY	LOBBY	ELEVATOR

NESS 0 ~ R AU MA	ANUAL	SPEED	1/60 ~ 1/60,000
NESS 0 ~ R AU MA	20 JTO ANUAL	SPEED	1/60 ~ 1/60,000
NESS 0 ~ R <u>AU</u> MA FLI0	JTO ANUAL		1/60 ~ 1/60,000
R AU MA	JTO ANUAL		1/60 ~ 1/60,000
MA FLI			1/60 ~ 1/60,000
FLI			1/60 ~ 1/60,000
		DETUDN	
	CKER	RETURN	
0 ~	- 20		
LO	W / MIDDLE / H	ligh	
0 ~	- 20		
0 ~	- 20		
0 ~	- 20		
ALI	L DAY / NIGHT (ONLY	
0 ~	- 20		
0 ~	- 20		
0 ~	- 20		
0 ~	- 20		
·			
LO	W / MIDDLE / H	ligh	
·			
R 0~	- 20		
RES 0~	- 20		
RGIN 0~	- 20		
LO	W / MIDDLE / H	ligh	
R 0~	- 20		
	- 20		
	W / HIGH		
		IIGH	
	FY OF 0 ~ 0 ~ 1 0 ~ 0 ~ 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 0 ~ 1 1 1 0 ~ 1 0 ~ 1 1 1 0 ~ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY OFF / X2 ~ X64 0 ~ 20 I LOW / MIDDLE / H 0 ~ 20 0 ~ 20 I 0 ~ 20 ALL DAY / NIGHT 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 I LOW / MIDDLE / H I IR 0 ~ 20 IR IR 0 ~ 20 IR 0 ~ 20 IR I IR I IR I IR I I I I I I I	FY OFF / X2 ~ X64 0 ~ 20 I LOW / MIDDLE / HIGH 0 ~ 20 0 ~ 20 I 0 ~ 20 ALL DAY / NIGHT ONLY I 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 0 ~ 20 I IR 0 ~ 20 LOW / MIDDLE / HIGH I IR IR 0 ~ 20 I IR 0 ~ 20 IR 0 ~ 20 IR 0 ~ 20 IR 0 ~ 20 I IR 0 ~ 20 I IR 0 ~ 20 I

How to Set Up the camera menu

Setup Menu

	SHARPNESS	0 ~ 10						
IMAGE	GAMMA	0.45 ~ 0.65						
	PEDSTAL	0 ~ 20						
	COLOR GAIN	0~20						
	MIRROR	0 ~ 20 OFF / ON						
	FLIP	OFF / ON						
	RETURN							
	VIEW ANGLE	WIDE 4 : 3						
SYSTEM		WIDE 16 : 9	XY ADJUST					
STSTEIVI		NORMAL XY ADJUST						
	CVBS	NTSC / PAL						
	LANGUAGE							
		ENG / CHN / CHN(S) / JAN / KOR						
	RESET	ON	PUSHING					
	RETURN	1.01/ 0.01/						
CRECIAL	D-ZOOM	1.0X ~ 8.0X						
SPECIAL	D-WDR	OFF / LOW / MID	DLE / HIGH					
	DEFOG	OFF	MODE					
		ON	MODE	AUTO				
				MANUAL				
			LEVEL	LOW				
				MIDDLE				
			DETUDN	HIGH				
	CHADING	055	RETURN					
	SHADING	OFF	MELCUIT					
		ON	WEIGHT	0 ~ 100%				
		RETURN						
		OFF						
	PRIVACY	ON	ZONE NUM	0~15				
			ZONE DISP	ON / OFF				
			H-POS		0 ~ 40			
			V-POS	0 ~ 32				
			H-SIZE	0 ~ 40				
			V-SIZE	0 ~ 32				
			Y LEVEL	0~20				
			CR LEVEL	0~20				
			CB LEVEL	0 ~ 20				
			RETURN					
	INTELLIGENT	MTN TRACKER	ON	DET. SETTING	SENSITIVITY	0 ~ 20		
					OBJ KEEP	LV 0 ~ LV 6		
					MOTION EST			
					SIGNAL OUT	OFF / ON		
					RETURN			
					WINDOW TONE	0~6		
				WINDOW ZONE	0 ~ 3			
				WINDOW USE	OFF / ON			
				DET H-POS	0 ~ 40			
				DET V-POS	0 ~ 32			
				DET H-SIZE	0 ~ 40			
				DET V-SIZE	0 ~ 32			
				RETURN				
		ALARM	ANTI-SHIFT	OFF / ON				
			SHIFT SCALE	0~20				
				OFF / ON				

How to Set Up the camera menu

• Setup Menu

	ALARM	ANTI-SHIFT	OFF / ON
		SHIFT SCALE	0 ~20
		ANTI-BLOCK	OFF / ON
		BLOCK SCALE	0 ~ 20
		RETURN	
	QUICK ZOO	M MOVING	0 ~ 240 sec
		ZOOM IN	0 ~ 240 sec
		STANDBY	0 ~ 240 sec
		SYNCHRONOUS	OFF / ON
		TRACKING	OFF / ON
		REPEAT	OFF / ON
		RETURN	
	RETURN	·	
RETURN			

MENU

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

- 1. Press the set button.
- * MENU will be displayed on the monitor.

MENU

 \rightarrow PRESET : Preset is provided to maximize user convenience.

(PRESET : Indoor // Outdoor // Low light // Hallway // Lobby // Elevator)



 \rightarrow MAIN SETUP : Enter the MAIN SETUP to adjust further settings.



MENU SETUP

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.

MENU				
1. LENS				
2. EXPOSURE	₽			
3. WHITE BAL	ATW			
4. BACKLIGHT	OFF			
5. SPECO DNR	MIDDLE			
6. DAY&NIGHT				
7. IMAGE				
8. SYSTEM	CB CB			
9. SPECIAL				
RETURN				

- 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.

MENU				
1. LENS				
2. EXPOSURE	+			
3. WHITE BAL	ATW			
4. BACKLIGHT	OFF			
5. SPECO DNR	MIDDLE			
6. DAY&NIGHT	AUTO			
7. IMAGE				
8. SYSTEM				
9. SPECIAL				
RETURN				

- 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 RETURN and press the SET button to RETURN.

NOTE

- * Move to the available submenu by moving *arrow* to desired feature.
- * Submenu is not available when this symbol displayed "---".

1. LENS

This function is to adjust the brightness of the monitor.

- 1. Move the triangular indicator to LENS using the Up and Down buttons on the Set Up menu screen.
- 2. Select the desired lens type by pressing the Left of Right button.
- * Fixed board lens type camera is available for "MANUAL" option in LENS menu only.

MENU		
1. LENS		
2. EXPOSURE	4	
3. WHITE BAL	ATW	
4. BACKLIGHT	OFF	
5. SPECO DNR	MIDDLE	
6. DAY&NIGHT	AUTO 🔶	
7. IMAGE		
8. SYSTEM	C C C C C C C C C C C C C C C C C C C	
9. SPECIAL	4	
RETURN		

MENU		
1. LENS		
2. EXPOSURE		
3. WHITE BAL	ATW	
4. BACKLIGHT	OFF	
5. SPECO DNR	MIDDLE	
6. DAY&NIGHT	AUTO 🔶 🧖	
7. IMAGE	←	
8. SYSTEM	C C C C C C C C C C C C C C C C C C C	
9. SPECIAL	↓	
RETURN		

NOTE

- * On DC mode, you can select INDOOR, OUTDOOR, or DEBLUR depending on the installation environment.
- * On MANUAL mode, you can select NORMAL or DEBLUR depending on the installation environment.

2. EXPOSURE

On this manu, users can control exposure by selecting one of modes (Brightness, Shutter, Sens-up, AGC)

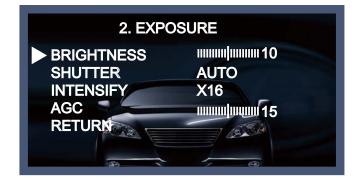
- 1. Move the triangular indicator to EXPOSURE on the SETUP menu screen using the Up and Down button
- 2. Select the desired mode using the Left or Right buttons.

MENU		
1. LENS 2. EXPOSURE 3. WHITE BAL 4. BACKLIGHT 5. SPECO DNR 6. DAY&NIGHT 7. IMAGE 8. SYSTEM 9. SPECIAL RETURN	DC ATW OFF MIDDLE AUTO +	

EXPOSURE

 \rightarrow BRIGHTNESS : It is used to adjust overall brightness level.

(BRIGHTNESS : 0 \sim 20 // default value : 10)



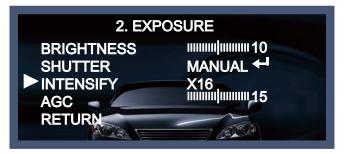
 \rightarrow SHUTTER : Users adjust electronic shutter speed by selecting one of modes(AUTO, MANUAL, FLICKER).

2. EXP0	OSURE
BRIGHTNESS SHUTTER INTENSIFY AGC RETURN	uuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu

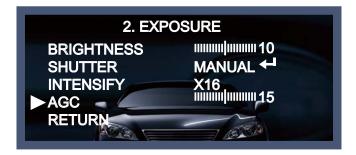
Manaul mode : shutter speed is adjustable from 1/60 up to 1/60,000.



 \rightarrow INTENSIFY : The brighter image can be displayed by operating digital slow shutter speed in low light environment. (digital slow shutter : x2 ~ x64 // default value : x16)



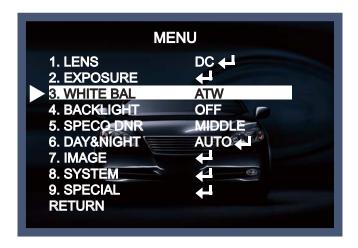
 \rightarrow AGC : the brighter image can be displayed by adjusting AGC(Auto Gain Control) level. (AGC : 0 ~ 20 / default : 15 // default value : 15)



3. WHITE BALANCE

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.



Use the appropriate mode according to your purposes among these three modes.

- * ATW : Use this mode when the color temperature is from 1,800K to 10,500K.
- * AWB : The function to search for the color which is matched well with the ambient environment. This be used when the color temperature is from 3,000K to 7,000K.
- * AWC→SET : After letting camera focus on the blank white paper to the best condition of current lighting environment, press the SET button. If the lighting condition is changed, Re-adjustment should be needed.
- * MANUAL : Manual compensation make the more detailed control possible. First, after adjusting the white balance using the ATW or AWB mode, change the mode into the manual compensation mode and then press Set button. While looking at the color change of the subject seen on the screen after setting up the proper color temperature, increase the each value of the blue and the red.



NOTE

The White Balance may not be worked properly in the following conditions. If this doesn't work, use the AWB mode.

- * When there is a very high color temperature in the circumstances of the subject.
- (for example, clear sky, Sunset)
- * It is very dark.
- * If the camera is headed to the fluorescent light directly or if there is a drastic lighting change, The operation of White balance may become unstable.

4. BACK LIGHT

On this menu, back light image can be compensated by users selecting one of modes (HLC, BLC, and WDR).

- 1. Move the triangular indicator to BACKLIGHT on the SETUP menu screen using the Up and Down button
- 2. Select the desired mode using the Left or Right buttons.



 HLC (Highlight Light Compensation) : When there is a car head light turned on at the entrance of the gas station or in some place in the parking lot, the numbers of the car plate can be recognized by blocking only the light from the car headlight. At the area is set up specifically, you can recognize the car plate numbers by blocking the strong light signal.



- BLC (Back Light Compensation) : The camera with 3D-DNR provides the intelligent light level control to overcome strong backlight conditions.
 - → BLC : The set up area can be seen vividly by the user who set up the desired area to compensate the back light directly according to the installation environment.



H-POS	Adjust the H(Horizontal)-position of the BLC area.
V-POS	Adjust the V(Vertical)-position of the BLC area.
H-SIZE	Adjust the H(Horizontal)-size of the BLC area.
V-SIZE	Adjust the V(Vertical)-size of the BLC area.

WDR(wide dynamic range) : the function is intended to provide clear images even under back light circumstances where intensity of illumination can vary excessively, namely when there are both very bright and very dark areas simultaneously in the field of view of the camera. (To adjust WDR level, select the LOW, MIDDLE, HIGH by pressing the left or the right button)





5. DNR

This function makes the noise of the low light background decrease and is a highlighted feature.

1. Move the triangular indicator to DNR on the SETUP menu screen using the Up and Down button

2. Select one of modes(OFF, LOW, MIDDLE, HIGH) to use DNR by pressing the Right or Left button.

	MENU
1. LENS 2. EXPOSURE 3. WHITE BAL 4. BACKLIGHT 5. SPECO DNR 6. DAY&NIGHT 7. IMAGE 8. SYSTEM 9. SPECIAL RETURN	DC +J +J ATW OFF MIDDLE AUTO +J +J +J

NOTE

* If DNR function is activated, digital noise om image get reduced.

The higher the compensation proportion raises, the better noise cancellation effect is. However, high DNR value might cause ghost effect on image to occur.

6. DAY&NIGHT

You can change the color mode of color or black / white by setting up the mode.

- 1. Select DAY&NIGHT using the Up or Down button on the Set Up menu screen.
- 2. Select one of modes (EXTERN, AUTO, COLOR, B/W) using the Left or Right buttons.

M	ENU
1. LENS 2. EXPOSURE 3. WHITE BAL 4. BACKLIGHT 5. SPECO DNR 6. DAY&NIGHT 7. IMAGE 8. SYSTEM 9. SPECIAL RETURN	DC - ATW OFF MIDDLE AUTO - - - - - - - - - - - - - -

EXT : it can change into COLOR or B/W mode automatically through the connection with the ground terminal.
 Users can adjust SMART-IR level (0 ~ 20), EXTERN S/W Level, and working time of the D/N filter.

6. DAY&NIG	HT
SMART IR EXTERN S / W DELAY RETURN	LOW LOW

Auto : Automatically, It shifts into the color mode in the bright environment and the B/W mode in the low light condition. It can adjust the delay time, starting brightness and end brightness according to the ambient conditions by pressing the Set button.

6. DAY&NIGHT		
SMART IF AGC THR AGC MAF DELAY RETURN	RES	
* SMART IR :	It is used to compensate	IR saturation ($0 \sim 20$)
* AGC THRES :	AGC threshold level	(0 ~ 20)
* AGC MARGIN:	AGC D/N margin level	(0 ~ 20)

- COLOR : Making the video output color always.
- B / W : Making the video output B/W always. By selecting the color signal On or Off, this lets the burst signal be disappeared or not.



7. IMAGE

This can be used when you want to select the additional function control.

- 1. When the SETUP menu is displayed, select IMAGE using the Up and Down button.
- 2. Select one of the mode using the Left or Right buttons.

ME	NU
1. LENS 2. EXPOSURE 3. WHITE BAL 4. BACKLIGHT 5. SPECO DNR 6. DAY&NIGHT 7. IMAGE 8. SYSTEM 9. SPECIAL RETURN	DC 4 ATW OFF MIDDLE AUTO 4 4 4 4 4 4 4 4 4 4 4 4 4

7. IMAG	E
SHARPNESS GAMMA PEDESTAL COLOR GAIN MIRROR FLIP RETURN	0.55 0.55 0.55 0.0000000000000000000000

IMAGE

- \rightarrow SHARPNESS : the outline of an image becomes sharp and more distinct as the level of sharpness increases. It has better be used to adjust the value to the proper one depending on a sort of image. (SHARPNESS : 0 ~ 10)
- $\rightarrow\,$ GAMMA ~~ : Gamma value is adjustable ~~ (GAMMA : 0.45 \sim 0.65)
- \rightarrow PEDSTAL : Pedstal value is adjustable (PEDSTAL : 0 ~ 20)
- $\rightarrow\,$ COLOR GAIN : Color gain value is adjustable (COLOR GAIN : 0 \sim 20)
- \rightarrow MIRROR : The image of the monitor is reversed horizontally.
- \rightarrow FLIP : The image of the monitor is reversed vertically.







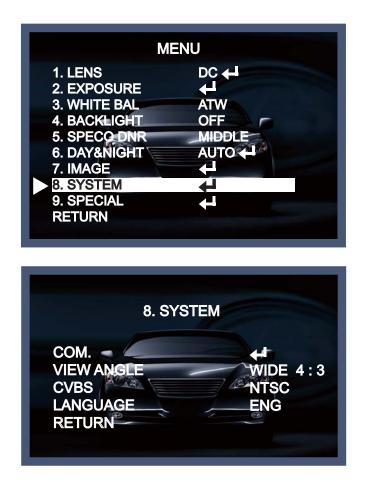


8. SYSTEM

This can be used when you want to select the additional function control.

1. When the SETUP menu is displayed, select SYSTEM using the Up and Down button.

2. Select one of the mode using the Left or Right buttons.



SYSTEM

→ VIEW ANGLE : users are able to adjust aspect ratio by selecting 'WIDE 4:3', 'WIDE 16:9' or 'NORMAL' depending on monitor aimed for surveilance. (default value : WIDE 4:3

8. SYS	ТЕМ
VIEW ANGLE CVBS LANGUAGE RETURN	WIDE 4:3 NTSC ENG



 \rightarrow CVBS : TV system is manually switchable to 'PAL' or 'NTSC' on CVBS(Composite Video Blanking and Sync).

9. SPECIAL

This can be used when you want to select the additional function control.

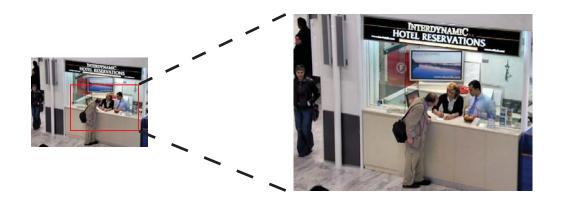
1. When the SETUP menu is displayed, select SPECIAL using the Up and Down button.

2. Select one of the mode using the Left or Right buttons.

MENU	SPECIAL
1. LENS DC ↓ 2. EXPOSURE ↓ 3. WHITE BAL ATW 4. BACKLIGHT OFF 5. SPECO DNR MIDDLE 6. DAY&NIGHT AUTO↓ 7. IMAGE ↓ 8. SYSTEM ↓ 9. SPECIAL ↓ RETURN ↓	D-ZOOM 1. 0X D-WDR OFF DEFOG OFF SHADING OFF PRIVACY OFF INTELLIGENT F RETURN

SPECIAL

 \rightarrow D-ZOOM : diginal zoom supports up to x8 available (x1 ~ x8) The higher the digital zoom magnification is, the lower the resolution is.



- → D-WDR : This camera which is using 3D-DNR DSP provides intelligent light level control to overcome even strong backlight conditions. (OFF / LOW / MIDDLE / HIGH)
- \rightarrow DEFOG : This function helps to recognize the object in a foggy or dusty weather condition.



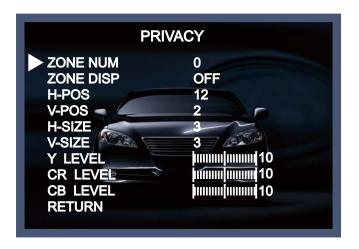




 \rightarrow SHADING : It is used to increase brightness in case angle of lens set as wide cause darker image on both sides than that on the center.



 \rightarrow PRIVACY : This is used to hide certain areas on the monitor. You can designate each different 15 area. The size of a designated area can be adjusted.



→ INTELLIGENT : It is used for crime prevention & detection by providing intelligent functions based on motion tracking.

INTELLIGE	NT
MTN TRACKER ALARM QUICK ZOOM RETURN	OFF ↓↓ OFF

◆ INTELLIGENT (MTN TRACKER, ALARM, QUICK ZOOM)

1) MTN TRACKER : it is used to adjust a certain area for motion tracking.

MTN TR/	ACKER
DET. SETTING WINDOW TONE WINDOW ZONE WINDOW USE DET. H-POS DET V-POS DET V-POS DET H-SIZE DET V-SIZE RETURN	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2) ALARM : it is used to set 'ANTI-SHIFT' or 'ANTI-BLOCK' based on motion tracking. scale level of these functions are adjustable.

ALAF	RM
 ANTI-SHIFT SHIFT SCALE ANTI-BLOCK BLOCK SCALE 	ON
RETURN	



* ANTI-BLOCK: If someone intentionally block the front of camera by hands or spray, etc., it will be automatically detected by a warning message(BLOCKING DETECTED !!!) on monitor.



3) QUICK ZOOM : Digital 'zoom-in' is operated to precisely detect objects when objects get in a designated motion-detection area. The area setting is available on MTN TRACKER(P. 27).

QUICK	(ZOOM
MOVING ZOON IN STANDBY SYNCHRONOUS TRACKING REPEAT RETURN	30 / 60 SEC 30 / 60 SEC 30 / 60 SEC OFF OFF OFF





10. RETURN

MENU		
1. LENS 2. EXPOSURE 3. WHITE BAL 4. BACKLIGHT 5. SPECO DNR 6. DAY&NIGHT 7. IMAGE 8. SYSTEM 9. SPECIAL RETURN	DC UC UC ATW OFF MIDDLE AUTO UC UC UC UC UC UC UC UC	

Press 'RETURN' button to save the current settings and exit the setup menu.

• Trouble Shooting

PROBLEM	POSSIBLE CAUSE
Northing 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/Hi-z.
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 INTENSIFY does not work.	Check that the AGC setting in the EXPOSURE menu is not set to OFF. Check the EXPOSURE menu and make sure SHUTTER is set to



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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
SPECO TECHNOLOGIES IP CAMERAS	2 YEARS
SPECO PTZ AND VL CAMERAS	1 YEAR
SPECO TECHNOLOGIES MONITORS	1 YEAR
IR LEDS	90 DAYS

DVRs	YEARS
NVRs	YEARS
BALANCE OF	
SPECO TECHNOLOGIES LINE	YEAR

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.
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- 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.
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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

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MODEL NO .: .

SERIAL NO.: __

(LOCATED ON BACK OR BOTTOM OF UNIT)

DATE OF PURCHASE: _

WHERE PURCHASED: _

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

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