Effio-V 700TVL REAL WDR/3DNR/DEFOG/IR OPTIMIZE/ SCENE SELECTION DOME CAMERA USFR'S MANUAL









- Sony 960H Double Scan CCD II
- Horizontal Resolution of over 700 TV Lines
- IR LED: 30 units (IR Type)
 Night View Distance: Indoor 35 / Outdoor 25m(IR Type)
- Real Wide Dynamic Range
- True Day & Night(ICR)
- Day & Night(w/o ICR)
 2D&3D Noise Reduction
- IR-Optimizer
- Digital Image StabilizerDefog(Auto. Detection)
- Motion Detection (Frame rate link)
- Multi-languages OSDPolygon Privacy mask

- Intelligent scene recognition
 Lens shading compensation
- Coaxial communication
- 3-Axis Gimbal & Vandalproof Dome Housing(Vandalproof Type)
 3-Axis Gimbal & Plastic Dome Housing
- Weatherproof (IP66)(Vadalproof Type)

51-002-30



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

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. 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 his own expense.

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

CAUTION: 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.

This installation should be made by a qualified service person and should conform to all local codes.

Precaution

Do not Keep the camera face to strong light directly
Do not install the camera in extreme temperature conditions.
Do not disassemble the camera even if troubles happened
To avoid malfunctions, never use the camera close to a gas or oil leak
Do not drop the camera or subject them to physical shocks.
Do not expose the camera to rain or spill beverage on it.
Do not install the camera under unstable lighting conditions
Do not install or use the camera in an environment where the humidity is high

1. Features

DEFOG

This camera supports DEFOG function which does a process of clearing blurred image caused by fog and snow by analyzing the brightness of input image and compensating the color of the image.

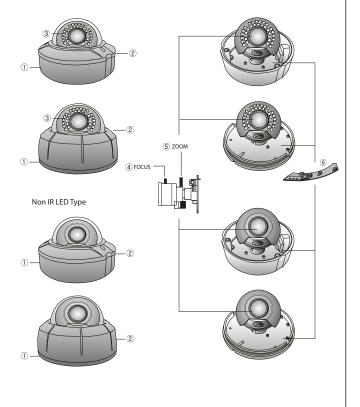
- Horizontal Resolution Over 700TVL with 960H CCD
- DNR(Digital Noise Reduction)
 -Improved "blur" of moving objects
 -Fine color reproduction in low luminance
- Low Light Performance
- High sensitivity: Rich color infomation in even low luminance Clear image under IR LED: Not saturated image by "IR optimizer"
- IR Optimizer

Intelligent control for clear image under IR LED light

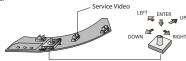
- PWM control for IR LED light
- Prevention of saturated image by AE
- Compensation of shading for IR LED hot spot
- Real W DR (Wide Dynamic Range)
- Improvement of visibility under high contrast scene by double shutter and intelligent image processing
- Easy tuning for high contrast scene
- Auto Scene Recognition Provide the best image automatically for every situation by intelligent scene analysis
- Scene Selection
 Provide the best image by automatic tuning for selected scene manually

2. Names and Functions of Parts

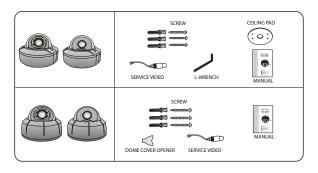
IR LED Type



- (1) Base
- 2 Dome Cover Ring
- ③ IR LEDs
- Focus Handle
 Used to provide for accurate of an object within the lens field of view
- ⑤ Zoom Handle
 Used to adjustzoom magnification by turning
- 6 OSD Board



3. Components



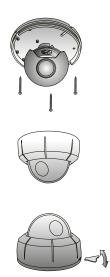
4. Installation & Connection

Vandalproof Dome Camera

Wall

Plastic Dome Camera
Wall

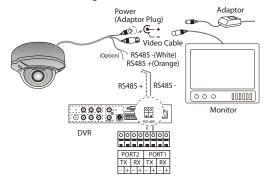


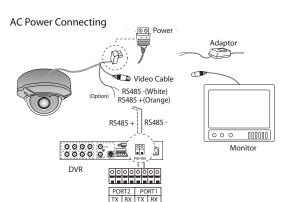


Note

- * Ceiling pad(gasket) should be sticked to above base in installation place.
- * Wall mounting backet and other instruments should be used with dome camera if the installation condition is not appropriate to cover the whole dome base.

DC Power Connecting





5. Setup Menu Flow

SETUP MENU		ADVANCED	MENU	
	CUSTOM		FIX	SHUTTER
	FULL AUTO			AGC
SCENE SELECT	INDOOR	SHUTTER/	MANUAL	SHUTTER
	OUTDOOR	AGC		AGC MAX
	BACKLIGHT	i i	AUTO	AE LEVEL
	ITS			AGC MAX
				SENS UP
			ATW	SPEED
				DELAY CNT
		WHITE BAL		ATW FRAME
				ENVIRONMENT
			PUSH	
			USER1	B-GAIN
				R-GAIN
			USER2	B-GAIN
				R-GAIN
			ANTI-CR	
			MANUAL	LEVEL
			PUSH LOCK	
			OFF	
		HLC/BLC	HLC	CLIP LEVEL
			BLC	
			OFF	
			ATR-EX	CONTRAST
		WDR/ATR-EX		CLEAR FACE
			WDR	CONTRAST
				CLEAR FACE
		DNR		LEVEL
			DAY	
			NIGHT	BURST
		DAY/NIGHT	AUTO	BURST
				CNTL SIGNAL
				DELAY CNT
				DAY→NIGHT
				NIGHT→DAY

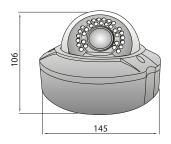
P	ADVANCED N	ΛENU			
		OFF			
	İ		MODE		
				TOP	
			IR AREA	BOTTOM	
		ON		LEFT	
				RIGHT	
				WEIGHT	
			LEVEL		
	IR OPTMIZER		IR LED	OFF	
				FIX	LEVEL
				DAY/NIGHT	LEVEL MIN
					LEVEL MAX
			COLOR NIGHT	OFF	
				ON	COLOR GAIN
			IR SHADE COMP	OFF	
				ON	PATTERN
					POSH
					POSV
	LENS SHD COMP	OFF			
		ON	PATTERN		
			POSH		
			POSV		
	DEFOG	OFF	1.57.51	-	
		ON	LEVEL	-	
	FLKLESS	OFF		-	
		ON	MODE		

SETUP MENU		ADVANCED MI	ENU
	BRIGHTNESS		
	CONTRAST		
	SHARPNESS		
EZOOM	HUE		
EZOOWI	COLOR GAIN		
	MAG		
DIS	PAN		
כוט	TILT		
PRIVACY MASK			
PRIVACT WIASK	AREA SEL		
	DISPLAY		
	POSITION		
	COLOR		
	TRANSP		
	MOSAIC		
MOTION DET	DETECT SENSE		
MOTION DET	INTERVAL		
	BLOCK DISP		
	MASK AREA		
		AREA SEL	
		AREA MODE	
	MOTION AREA	TOP	
		BOTTOM	
		LEFT	
		RIGHT	
		INT	
SYS SETTING	SYNC MODE	LL	PHASE
313 SETTING		VSL	PHASE
		MANUAL	
	LENS	AUTO	TYPE
			MODE
			ADJUST
			SPEED

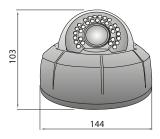
SETUP MENU		ADVANCED N	/ENU
SYS SETTING	FLIP		
3.3 32	LCD/CRT		
		PROTOCOL]
		ADDRESS	
	COMMUNICATION	BAUD RATE	
		DATABIT	
		PARITY	
		STOP BIT	1
	CAMERA ID	OFF	
		ON	POS
LANGUAGE			
VERSION			
	W.PIX MASK	MANUAL	REGISTRATION
			REG. POINT
			CURSOR COLOR
			BLINK
MAINTENANCE			REG.NUMBER
		AUTO	RUN
			BACK
		DATA CLEAR	
	CAMERA RESET		
	SAVE		
EXIT	NOT SAVE		
	CANCEL		
	BACK		

6. Dimension

unit:mm









7. SPECIFICATIONS

TV System	NTSC	PAL	
Sensor	Sony 960H Double Scan CCD II		
Total Pixels	(H)1020 x (V)508 (H)1020 x (V)5		
Effective Pixels	(H)976 x (V)494	(H)976 x (V)582	
Synchronization	H/V 15.734/59.94Hz	H/V 15.625/50Hz	
Scanning System	2:1 Interlace		
Horizontal Resolution	700 TV Lines in color		
Min. Illumination	Color: 0.3 Lux		
	B/W: 0.1 Lux		
Video Output	VBS 1.0Vp-p (75ohm Terminated)		
S/N	More than 50dB		
Function			
Scene Select	Custom / Auto Scene / Indoor / Outdoor / Backlight / ITS		
Auto Gain Control	OFF / ON		
Shutter Speed	1/60~1/120,000	1/50~1/120,000	
Digital Slow Shutter	OFF / AUTO (5X)		
Flickerless	OFF / ON / AUTO		
Wide Dynamic Range	OFF / MANUAL / AUTO		
Defog	OFF / ON	•	
BLC/HLC	OFF / ON		
Day & Night	DAY / NIGHT / AUTO / EXT 1 / EXT 2 (IR-Optimizer)		
White Balance	ATW / PUSH / MANUAL / USER 1 / USER 2 / PUSH LOCK		

Digital Noise Reduction	2D, 3D (OFF / 1~6)	
Flip(Mirror)	OFF/H/V/HV	
Effect	POSITIVE / NEGATIVE	
Lens Shading Compensation	1 ~ 20 Steps	
Polygon Privacy Mask	OFF / On (15 masks)	
Motion Detection	OFF / ON (24 x 16 Block)	
Blemish Compensation	MANUAL / AUTO (64 poir	nt)
Communication	COAX : PELCO-C / RS-485 : PELCO-D	
Language	English / Español / Russian / Potugal / DEUTSCH /	
	France / Japanese	
Electrical		
	IR LED Type	Non IR LED Type
IR LED	30 units	
Night View Distance	Outdoor 25m	
Day & Night System	ICR(Option w/o ICR)	
Lens	2.8~12mm DC Auto Iris	Varifocal Lens
Lens(Option)	2.8~12mm Varifocal Ler	ns
Operating Temperature/Humidity	-20°C ~50°C /30% ~809	%
Storage Temperature/Humidity	-30℃ ~60℃ / 20% ~90%	
Power(Max.)	DC 12V 450mA	DC 12V 120mA
	[Recommended-Voltage : +/- 20%, Current:	
	Adapter with rated power of 2 times(than real using current]	
Dimension(mm)	Vandalproof type :145(Ø) x 106(H)mm / Plastic Type :144(Ø) x 103(H)mm	
Design and	specifications are subject t	to change without notice

PRODUCT WARRANTY CARD

1) ITEM #:
2) S/N #:
3) INSTALLATION CONDITION
- Indoor 🗌 / Outdoor 🔲
- Power supply SPECIFICATION :
DC12V / AC24V
CURRENT mA
4) TROUBLESHOOTING
- No picture
- Bad image
- No power
- Water damage
- LED ON / OFF
- ETC. :
Please keep this warranty card with the manual. Please fill out this warranty card and send us this warranty card with the faulty units together.

- Following cases can be charged even within the warrany period.
 - a. When defects are caused by user's carelessness.
 - b. When improper or unauthorized repairs are done or when the inside is modified or damaged.
 - c. Defects caused by natural disaster or power problem.
 - d. When the warranty card is not filled out or corrected unconfirmed.