

# AHL-SZ940-D

PARANTEK

AHD2.0 LPR CAMERA

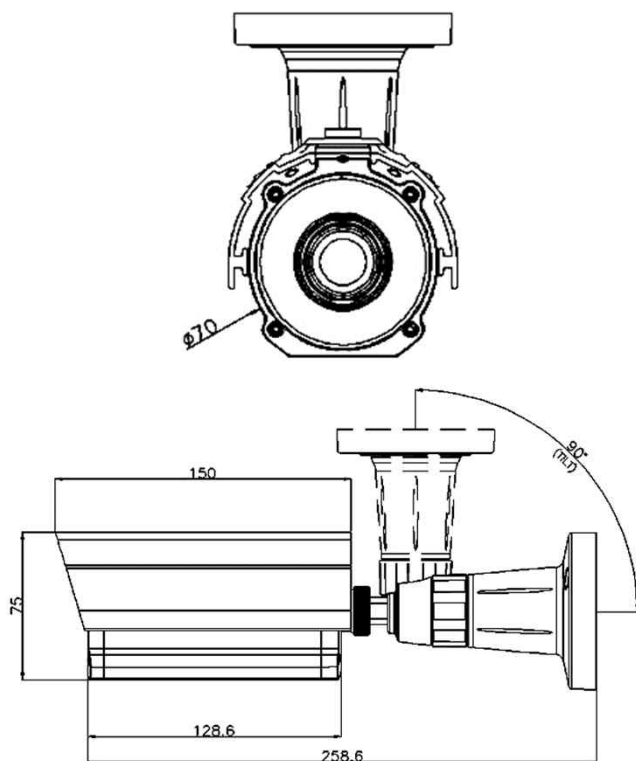


## Main Features

- 1/2.8" Sony 2.9μm Pixel Progressive Starvis Color CMOS Sensor
- Approx. 2.12 Mega Pixels (Max. 1080p)
- Stepping 2-Motor Varifocal Lens (ICR f=5~50mm)
- 5pcs of SR-LED & 25pcs of 850nm IR LED
- Max. 15M Recognition Distance (Max. 100Km/h)
- B/W Images for both Day & Night (LED Continuous On)
- WDR / 3D-DNR / DSS (Sens-up) / UTC / OSD Supported
- AHD2.0 Camera (CVBS Out Mode Supported)
- Dual Voltage (DC12V & AC24V)
- Water-proof IP66 Housing (70Ø)



## Dimension



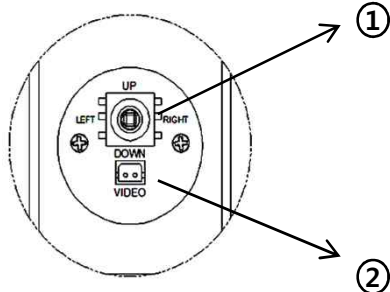
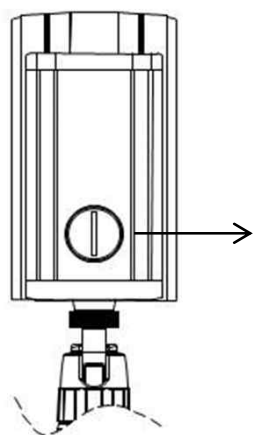
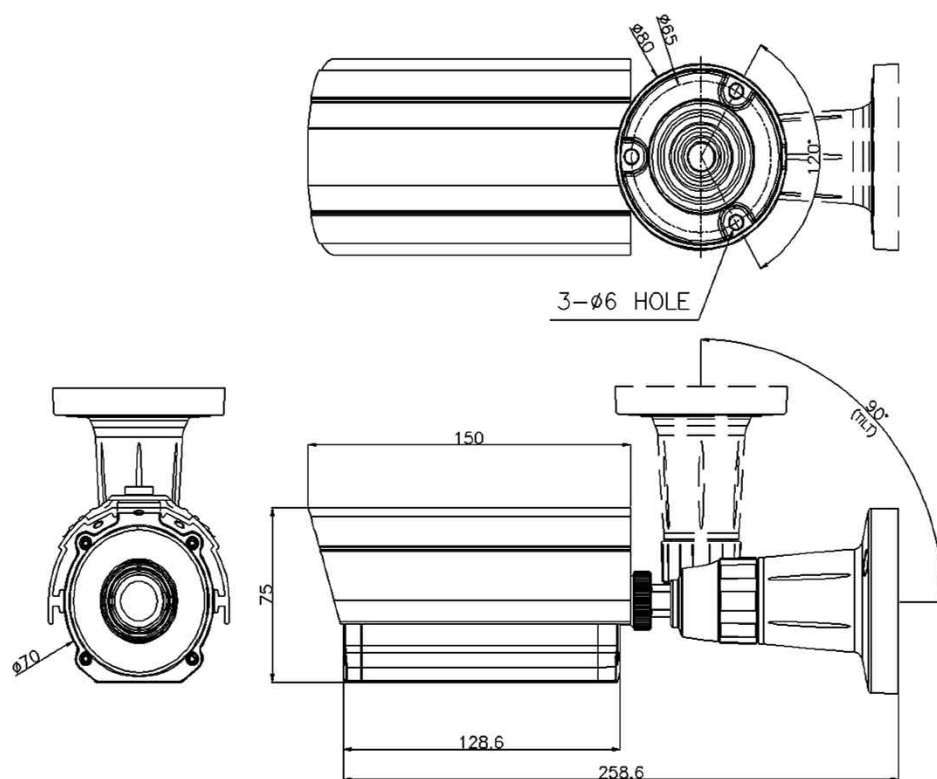
## Specifications

Model	AHL-SZ940-D
Signal System	AHD 2.0
Pickup Device	1/2.8"(D-6.46mm) 2.12M Sony CMOS Sensor
Scanning System	Progressive Scan (16:9)
Sync. System	Internal
Total Pixels	2.16MP [1,945(H)x1,109(V)]
Active Pixels	2.12MP [1,937(H)x1,097(V)]
Min. Illumination	0Lux (Continuous IR on)
No. of IRED	5ea SR-LED and 25ea 5Ø (850nm)
Video Out	AHD, TVI, CVI or Analog CVBS AHD, TVI and CVI: 1080p@25/30 / Analog CVBS: D1
Lens	DC Auto ICR Vari-focal f=5~50mm, F1.6 Stepping Motorized On-push AF
Lens (Mount)	Board type (Ø14)
Angle of View	59.1°~8.7°(D), 50.7°~7.4°(H), 27.7°~4.2° (V)
OSD	Via OSD Switch B/D & UTC
Camera Title	Off, On(Max. 8 Characters)
Language	English, Chinese(Simplified), Chinese(Traditional), Japanese, Korean
Exposure	DC
White Balance	Auto
BLC	Off, HLC, BLC, WDR
Day & Night Mode	B/W
Gain Control	AGC (0~10)
Electronic Shutter	1/4,000(3,200)sec (60Hz/50Hz)
DSS(Sens-up)	N/A
Noise Reduction	3DNR (Off, Low, Middle, High)
Mirror	Off, On(Mirror, Flip, Rotation)
Other Features	Motion Detection (4 Zones), Privacy Mask (16 Zones), ACE, D-Zoom, Defog, Gamma, Shading etc.
Communication	N/A
Microphone	N/A
Power Source	Dual Voltage (DC 12V & AC24V)
Power Consumption	Less than 10Watts (800mA @ DC12V)
Operating Temp.	-10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH)
Size (mm)	70Ø (Bullet Diameter)
Weight	1,223g (Gift-box packing)

## Option

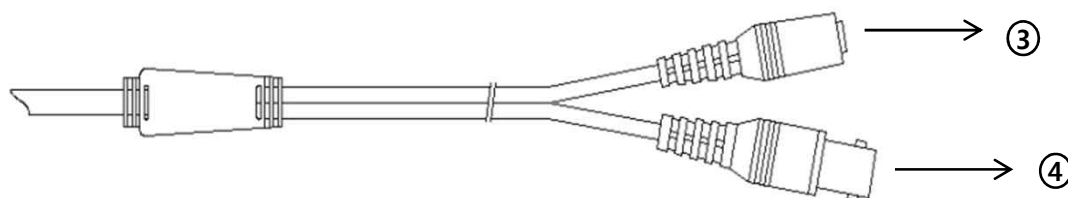
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AHD2.0 LPR CAMERA



When you move the OSD joystick back and forth without pushing it, the one-push Auto Focus zoom out/in features operate. When you move it from side to side, it will do one-push AF far & near operations.

When you press the OSD joystick first, it will pop up the camera OSD menu on videos and the keys work as the normal OSD cursor control.



	Function	I/O	Note	Remarks
①	OSD Joystick	N/A	5-directional OSD joystick	<b>AF or OSD Control</b>
②	VIDEO OUT	OUT	2 <sup>nd</sup> Video signal output	
③	POWER	IN	Camera power input	<b>DC12V or AC24V</b>
④	VIDEO OUT	OUT	Video signal output (BNC)	

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
LENS				MANUAL / <b>DC</b>
ZOOM/FOCUS	FOCUS MODE			<b>ONESHOT</b> / MANUAL
	D&N FILTER			<b>SYNC OFF</b> / SYNC ON
	ONEPUSH AF			Press ENTER Key
	LENS RESET			Press ENTER Key
EXPOSURE	BRIGHTNESS			0 ~ 20 <b>(10)</b>
	SHUTTER	AUTO	Lens Mode DC	INDOOR / OUTDOOR / DEBLUR
			Lens Mode Manual	NORMAL/DEBLUR
	MANUAL			NTSC : 1/30,60,120,250,500,1K,2K, <b>4K</b> ,8K,15K,30K PAL : 1/25,50,100,200,400,800,1.6K, <b>3.2K</b> ,6.4K,12.8K,25.6K
	SENS-UP			<b>OFF</b> / X2/ X4/ X8 / X16 / X32
	AGC			0 ~ 10 <b>(0)</b>
BACKLIGHT	<b>OFF</b>			
	HLC	LEVEL		0 ~ 20 <b>(10)</b>
		COLOR		<b>BLK</b> ,WHT,YEL,CYN,GRN,MAG,RED,BLU
	BLC	H-POS		0 ~ 20 <b>(6)</b>
		V-POS		0 ~ 20 <b>(5)</b>
		H-SIZE		0 ~ 20 <b>(7)</b>
		V-SIZE		0 ~ 20 <b>(7)</b>
	WDR	WEIGHT		LOW/ <b>MIDDLE</b> / HIGH
DAY&NIGHT	AUTO	D>N THRES		0(bright) ~ 20(dark) <b>(6)</b>
		N>D THRES		0(bright) ~ 20(dark) <b>(8)</b>
		DELAY		0 ~ 9sec, 10sec, 15sec <b>(0 Sec)</b>
		BURST		OFF/ <b>ON</b>
	COLOR			
	<b>B&amp;W</b>	BURST		OFF/ <b>ON</b>
	EXT. D&N	SMART IR		<b>OFF</b> /ON
		SAT. LEVEL		0 ~ 20 <b>(10)</b>
		EXTERN SW		<b>HIGH</b> /LOW
		DELAY		0 ~ 9sec, 10sec, 15sec <b>(0sec)</b>
		BURST		OFF/ <b>ON</b>
WHITE BAL	AWB	<b>AUTO</b>		
		AUTOext		
		PRESET		Press ENTER key
		MANUAL	C-TEMP.	3000K/ <b>5000K</b> / 8000K
			R-GAIN	0 ~ 20 <b>(10)</b>
			B-GAIN	0 ~ 20 <b>(10)</b>
	COLOR GAIN			0 ~ 20 <b>(10)</b>
DNR				OFF/ <b>LOW</b> / MIDDLE/ HIGH
IMAGE	SHARPNESS			0 ~ 10 <b>(8)</b>
	GAMMA			0.45/ <b>0.55</b> / 0.65/ 0.75
	MIRROR			<b>OFF</b> /ON
	FLIP			<b>OFF</b> /ON
	D-ZOOM			1.0X~16.0X <b>(1.0X)</b>
	ACE			<b>OFF</b> /LOW/ MIDDLE/ HIGH

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
IMAGE	DEFOG	<b>OFF</b>		
		ON	MODE	<b>AUTO</b> /MANUAL
			LEVEL	LOW/ <b>MIDDLE</b> / HIGH
	SHADING	<b>OFF</b>		
		ON	WEIGHT	0~100% <b>(100%)</b>
	PRIVACY	BOX	<b>OFF</b> /ON	
			ZONE NUM	0~15
			ZONE DISP	OFF/ON
			H-POS	0~60
			V-POS	0~34
			H-SIZE	0~60
			V-SIZE	0~34
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
		POLYGON	<b>OFF</b> /ON	
			ZONE NUM	0~7
			ZONE DISP	OFF/ON
			POS0-X ~POS3-X	0~120
			POS0-Y~POS3-Y	0~68
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
MOTION	<b>OFF</b>			
	ON	DET WINDOW	WINDOW USE	0~3
			WINDOW ZONE	OFF/ON
			DET H-POS	0~60
			DET V-POS	0~34
			DET H-SIZE	0~60
			DET V-SIZE	0~34
		SENSITIVITY		0~10 <b>(5)</b>
		MOTION OSD		<b>OFF</b> /ON
		TEXT ALARM		<b>OFF</b> /ON
		SIGNAL OUT		OFF/ <b>ON</b>
SYSTEM	COMM	CAM ID		0 ~ 255 <b>(1)</b>
		BAUDRATE		2400,4800, <b>9600</b> ,57600,115200
		CAM ID DISPLAY		<b>OFF</b> /ON
	OUTPUT	FRAME RATE		<b>1080_30p(25p)</b>
		FREQ		50Hz(PAL) / 60Hz(NTSC)
		ANALOG MODE		OFF / CVBS / HD_T / HD_C / <b>HD_A</b>
		CVBS OUT MODE		CUT / <b>FULL</b>
	LANGUAGE			<b>ENG</b> / CHINESE/ CHINESE(S)/ JAPANESE/ KOR
	CAM TITLE	<b>OFF</b>		
		RIGHT UP		0 ~ 9, A ~ Z, blank
		LEFT DOWN		0 ~ 9, A ~ Z, blank
FACTORY DEFAULT				Reset to factory setting
EXIT				Exit SETUP menu