

# AHM-F2F0(A)-4(JP)

## AHD3.0 MINIATURE BOX CAMERA

PARANTEK

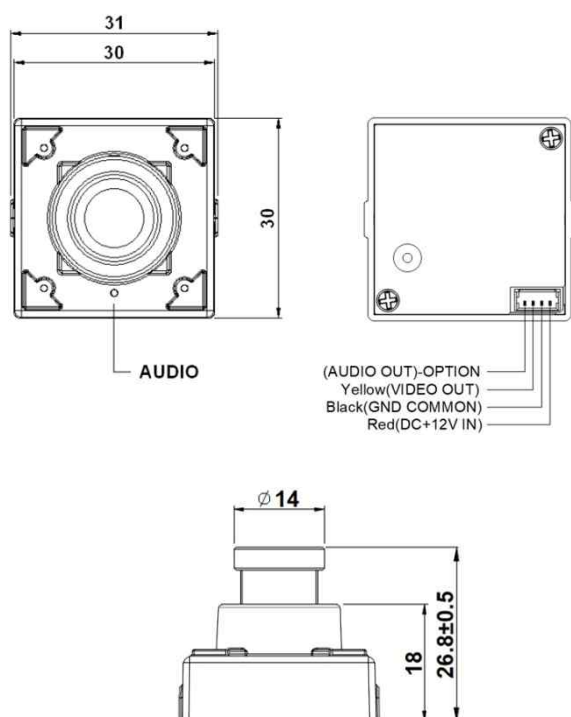


### Main Features

- 1/2.8" Sony 2.0μm Pixel Progressive Starvis Color CMOS Sensor
- Approx. 5.11 Mega Pixels (Max. 1944p)
- Fixed Board Lens
- WDR / 3D-DNR / DSS (Sens-up) Supported
- OSD Joystick & UTC Supported
- Audio Available (Option)
- AHD3.0 Camera (CVBS Out Mode Available)
- Wide Operating Voltage Range (DC5~DC12V)
- Box Miniature Housing(30x30mm) with U type Swivel Bracket



### Dimension



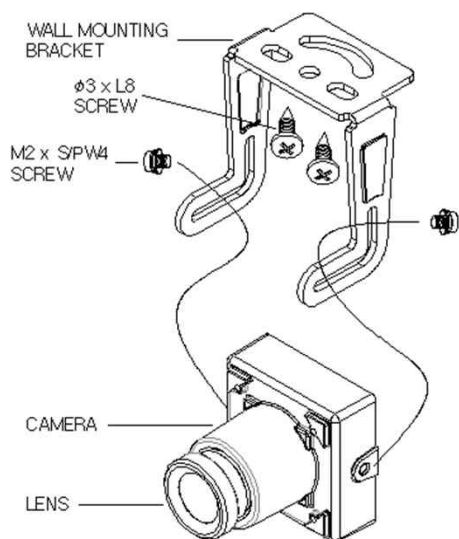
### Option

- Lens (Fixed)  
f=1.1mm(Fish-eye 180°), 1.7mm, 2.1mm, 2.5mm, 2.8mm, 3.3mm, 3.6mm, 6mm, 8mm, 16mm, 25mm
- Audio (AHM-F2F0A-4(JP))

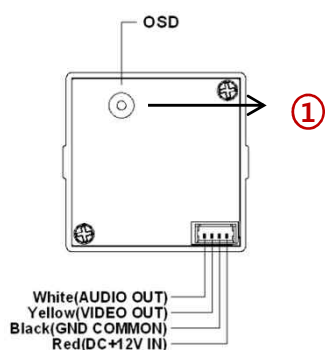
### Specifications

Model	AHM-F2F0-4(JP)	AHM-F2F0A-4(JP)
Signal System	AHD 3.0	
Pickup Device	1/2.8"(D-6.52mm) 5.11M Sony CMOS Sensor	
Scanning System	Progressive Scan (4:3 or 16:9 )	
Sync. System	Internal	
Total Pixels	5.69MP [2,704(H)x2,104(V)]	
Active Pixels	5.11MP [2,608(H)x1,960(V)]	
Min. Illumination	0.01Lux(F2.5 - 30IRE), 0.0003Lux(DSS on)	
Mechanical ICR	N/A	
Video Out	AHD3.0: 2592x1944p(4:3)@Max.20, 2560x1440p, 1920x1080, 1280x720(16:9)@25/30	
Lens	Fixed f=4mm board type, F2.5	
Lens (Mount)	Board Mount(M12) Board Mount(M12)	
Angle of View	4:3 Mode: 93°(D), 72°(H), 53°(V) 16:9 Mode: 85.5°(D), 72°(H), 39°(V)	
OSD	Via 5-direction Tact-switch or UTC	
Camera Title	Off, On(Max. 8 Characters)	
Language	English, Chinese(Simplified), Chinese(Traditional), Japanese, Korean	
Exposure	AE, Manual	
White Balance	AUTO, AUTOext, Preset, Manual	
BLC	Off, HLC, BLC, WDR	
Day & Night Mode	AUTO, COLOR, B/W	
Gain Control	AGC (0~10)	
Electronic Shutter	Auto, Manual, Flickerless	
DSS(Sens-up)	X32	
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	No	Yes
Power Source	DC 3.3V(±5%)	
Power Consumption	Less than 1.4 Watts (115mA@DC12V)	
Operating Temp.	-10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH)	
Size (mm)	30x30	
Weight	102 g (Gift-box packing)	108 g (Gift-box packing)

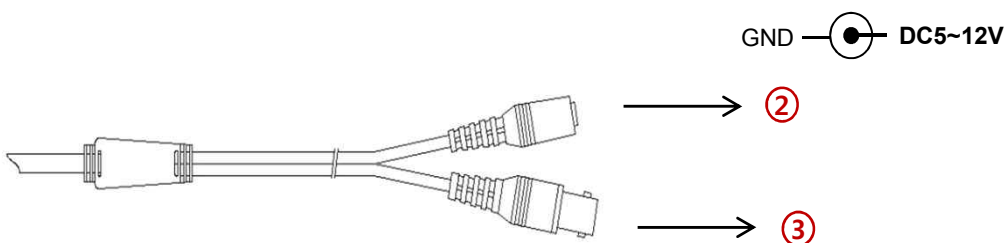
# Camera Mounting Instruction



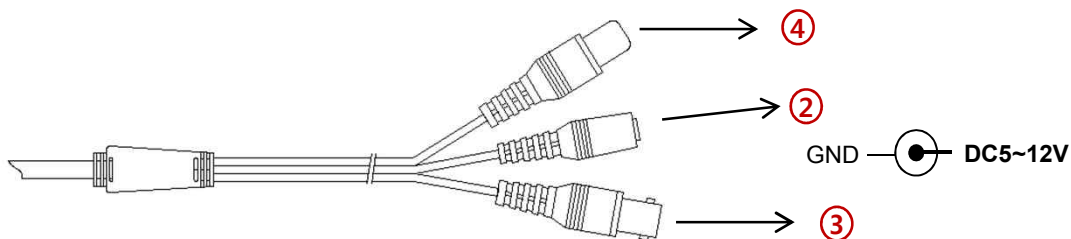
- There are three(3) of each Ø3xL8 screw and M2xS/PW4 screw together with a swivel bracket in the accessory package.
- Please use two(2) of the screws as shown left. We are providing one of each extra screw in the package.
- If you do not use M2xS/PW4 screws provided, it can **damage** the camera board inside housing. Such the damage will be your responsibility.



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	Function	I/O	Note	Remarks
①	OSD Joystick	N/A	5-directional OSD joystick	
②	POWER	IN	Camera power input	<b>DC5~12V</b>
③	VIDEO OUT	OUT	Video signal output (BNC)	75 Ω
④	AUDIO OUT	OUT	Audio signal output (RCA)	

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
EXPOSURE	BRIGHTNESS			0 ~ 20 <b>(15)</b>
	SHUTTER	AUTO		<b>NORMAL</b> / DEBLUR
		MANUAL		NTSC : <b>1/30</b> ,60,120,250,500,1K,2K,4K,8K,15K,30K PAL : <b>1/25</b> ,50,100,200,400,800,1.6K,3.2K,6.4K,12.8K,25.6K
		FLICKER		
	SENS-UP			<b>OFF</b> / X2/ X4/ X8 / X16 / X32
	AGC			0 ~ 10 <b>(8)</b>
BACKLIGHT	OFF			
	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&W	BURST		OFF/ <b>ON</b>
WHITE BAL	AWB	AUTO		
		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/ LOW/ <b>MIDDLE</b> / 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
	DEFOG	OFF		
		ON	MODE	<b>AUTO</b> / MANUAL
			LEVEL	LOW/ <b>MIDDLE</b> / HIGH
	SHADING	OFF		
		ON	WEIGHT	0~100% <b>(100%)</b>

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
IMAGE	PRIVACY	BOX	OFF/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	OFF/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	OFF			
	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 (5)
		MOTION OSD		OFF/ ON
		TEXT ALARM		OFF/ ON
SYSTEM	COMM	CAM ID		0 ~ 255 (1)
		BAUDRATE		2400/ 4800/ 9600/ 19200/ 38400/ 57600/ 115200
		CAM ID DISPLAY		OFF/ ON
	OUTPUT	FRAME RATE	CVBS	720p30(25), 1080p30(25), 1440p30(25), 1944p12.5, 1944p20
			HD_T	720p30(25), 1080p30(25), 1440p30(25), 1944p12.5, 1944p20
			HD_C	720p30(25), 1080p30(25), 1440p30(25)
			HD_A	720p30(25), 1080p30(25), 1440p15, 1440p30(25), 1944p12.5, 1944p20
		FREQ(NT/PAL)		50Hz(PAL) / 60Hz(NTSC)
		ANALOG MODE		OFF / CVBS / HD_T / HD_C / HD_A
		CVBS OUT MODE		CUT / FULL
	LANGUAGE			ENGLISH/ CHINESE(Traditional)/ CHINESE(Simplified)/ JAPANESE/ KOREAN
	CAM TITLE	OFF		
		RIGHT UP		0 ~ 9, A ~ Z, blank
		LEFT DOWN		0 ~ 9, A ~ Z, blank
FACTORY DEFAULT				Reset to factory setting
EXIT				Exit SETUP menu