

AHM-F1E0-4(JP)

AHD2.0 MINIATURE CAMERA

PARANTEK

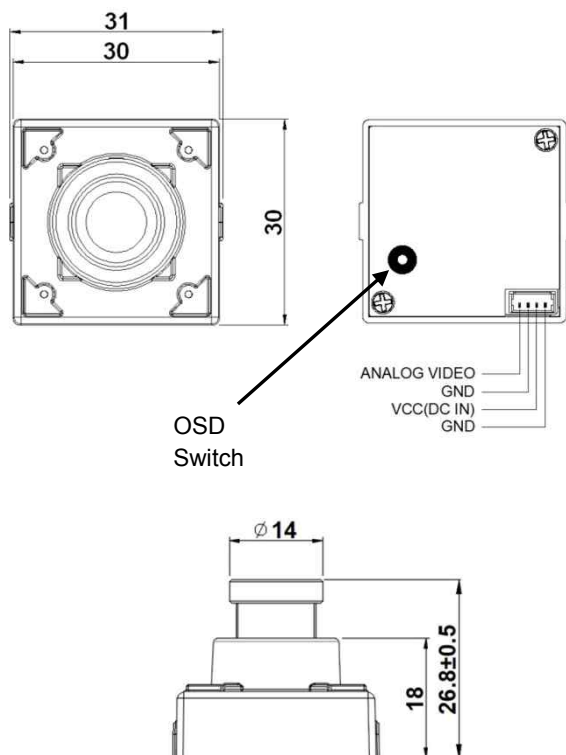


Main Features

- 1/2.8" Sony 2.9μm Pixel Progressive Starvis Color CMOS Sensor
- Approx. 2.12 Mega Pixels (Max. 1080p)
- Fixed Board Lens
- WDR / 3D-DNR / DSS (Sens-up) Supported
- OSD Switch & UTC Supported
- AHD2.0 Camera (CVBS Video Output Supported)
- Wide Operating Voltage Range (DC5~15V)
- Optionally Pelco-D and Parantek Serial Protocol Supported
- Box Miniature Housing(30x30) with U type swivel bracket



Dimension



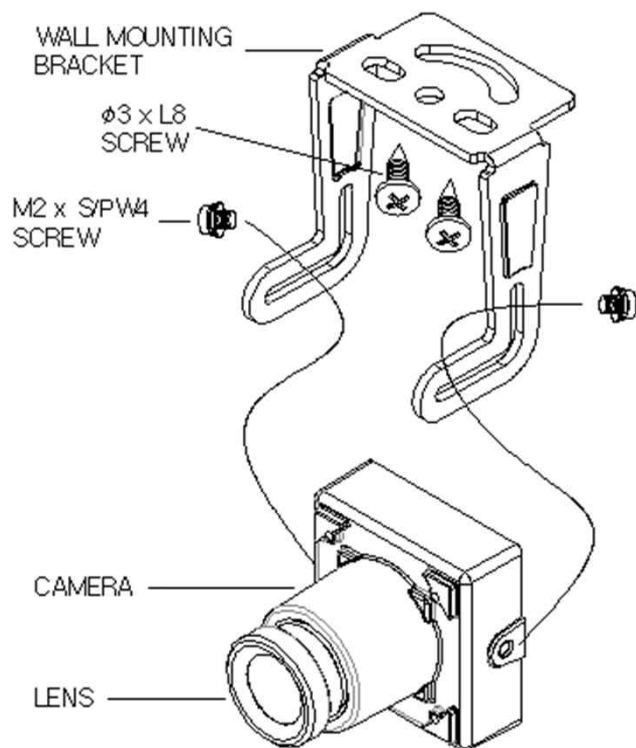
Option

- Lens (Fixed)
f=1.1mm(Fish-eye 180°), 1.7mm, 2.1mm, 2.5mm, 2.8mm, 3.3mm, 3.6mm, 6mm, 8mm, 12mm, 16mm, 25mm
- AHM-F1E0-4R: Serial Communication (RS232C TTL)

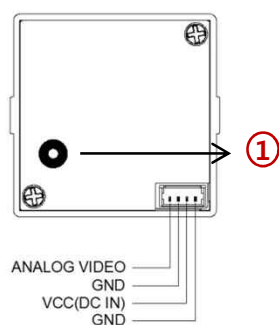
Specifications

| Model | AHM-F1E0-4(JP) |
|--------------------|--|
| 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 | 0.01Lux(F2.5 - 30IRE), 0.0003Lux(DSS on) |
| No. of IRED | N/A |
| Video Out 1 (BNC) | AHD: 1080p@25/30 or CVBS 1.0V p.p |
| Video Out 2 (BNC) | N/A |
| Lens | Fixed f=4mm board type, F2.5 |
| Lens (Mount) | Board type (M12) |
| Angle of View | 92.5°(D), 78°(H), 44.5°(V) |
| OSD | Via 5-directional OSD Tact-switch and AHM-F1E0-4R: Serial Port (with 6pin Wafer) |
| 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 | 1/25(30)~1/25,600(30,000)sec |
| 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 | Pelco-D and Parantek Serial Protocol Supported RS-232C (Default: 9600bps, ID1) |
| Microphone | N/A |
| Power Source | DC 5~12V |
| Power Consumption | Less than 1.6 Watts (130mA@DC12V) |
| Operating Temp. | -10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH) |
| Size (mm) | 30 x 30 |
| Weight | 103 g (gift-box packing) |

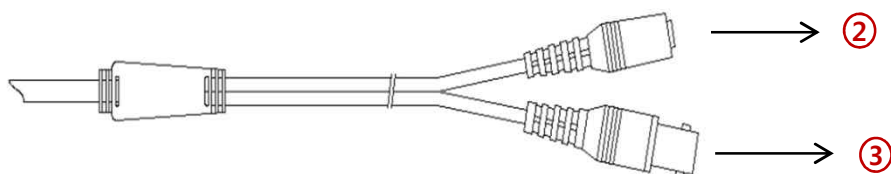
Camera Mounting Instruction



- 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.



GND — ● — DC5~12V



| | Function | I/O | Note | Remarks |
|---|--------------|-----|---------------------------|---------|
| ① | OSD Joystick | N/A | 5-directional OSD Switch | |
| ② | POWER | IN | Camera power input | DC5~15V |
| ③ | VIDEO OUT | OUT | Video signal output (BNC) | 75 Ω |

| SETUP MENU | SUB MENU 1 | SUB MENU 2 | SUB MENU 3 | VALUE |
|------------|------------|------------|------------|--|
| EXPOSURE | BRIGHTNESS | | | 0 ~ 20 (10) |
| | SHUTTER | AUTO | | NORMAL /DEBLUR |
| | | MANUAL | | NTSC : 1/30 ,60,120,250,500,1K,2K,4K,8K,15K,30K PAL : 1/25 ,50,100,200,400,800,1.6K,3.2K,6.4K,12.8K,25.6K |
| | | FLICKER | | |
| | SENS-UP | | | OFF / X2/ X4/ X8 / X16 / X32 |
| | AGC | | | 0 ~ 10 (8) |
| BACKLIGHT | OFF | | | |
| | HLC | LEVEL | | 0 ~ 20 (10) |
| | | COLOR | | BLK ,WHT,YEL,CYN,GRN,MAG,RED,BLU |
| | BLC | H-POS | | 0 ~ 20 (6) |
| | | V-POS | | 0 ~ 20 (5) |
| | | H-SIZE | | 0 ~ 20 (7) |
| | | V-SIZE | | 0 ~ 20 (7) |
| | WDR | WEIGHT | | LOW/ MIDDLE / HIGH |
| DAY&NIGHT | AUTO | D>N THRES | | 0(bright) ~ 20(dark) (13) |
| | | N>D THRES | | 0(bright) ~ 20(dark) (7) |
| | | DELAY | | 0 ~ 9sec, 10sec, 15sec (0 Sec) |
| | | BURST | | OFF/ ON |
| | COLOR | | | |
| | B&W | BURST | | OFF/ON |
| WHITE BAL | AWB | AUTO | | |
| | | AUTOext | | |
| | | PRESET | | Press ENTER key |
| | | MANUAL | C-TEMP. | 3000K/ 5000K / 8000K |
| | | | R-GAIN | 0 ~ 20 (10) |
| | | | B-GAIN | 0 ~ 20 (10) |
| | COLOR GAIN | | | 0 ~ 20 (10) |
| DNR | | | | OFF/ LOW/ MIDDLE / HIGH |
| IMAGE | SHARPNESS | | | 0 ~ 10 (8) |
| | GAMMA | | | 0.45/ 0.55 / 0.65/ 0.75 |
| | MIRROR | | | OFF /ON |
| | FLIP | | | OFF /ON |
| | D-ZOOM | | | 1.0X~16.0X (1.0X) |
| | ACE | | | OFF /LOW/ MIDDLE/ HIGH |
| | DEFOG | OFF | | |
| | | ON | MODE | AUTO /MANUAL |
| | | | LEVEL | LOW/ MIDDLE / HIGH |
| | SHADING | OFF | | |
| | | ON | WEIGHT | 0~100% (100%) |

| 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 | | 2400,4800,9600,57600,115200 |
| | | CAM ID DISPLAY | | OFF/ON |
| | OUTPUT | FRAME RATE | | 1080_30p(25p) |
| | | FREQ | | 50Hz(PAL) / 60Hz(NTSC) |
| | | ANALOG MODE | | OFF / CVBS / HD_T / HD_C / HD_A |
| | | CVBS OUT MODE | | CUT / FULL |
| | LANGUAGE | | | ENG/ CHINESE/ CHINESE(S)/ JAPANESE/ KOR |
| | 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 |