

# MC-108-M3

1080p 60fps 10x Zoom Module

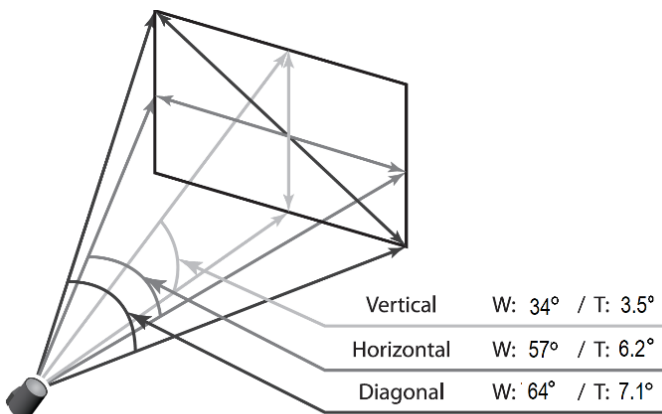
LVDS EX-SDI CVBS



## Features

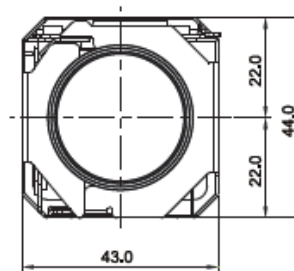
- 1/2.8" 2MP Sony Starvis CMOS sensor
- 1080p 60fps/30fps, 720p 60fps/30fps
- 10x Optical Zoom (5.1mm ~51mm) & 32x Digital Zoom
- Day & Night(ICR)
- Real-time True WDR
- Digital Noise Reduction (2D+3D)
- Privacy Mask Function
- Digital Image Stabilization
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out: LVDS, EX-SDI, VBS

## Field of View

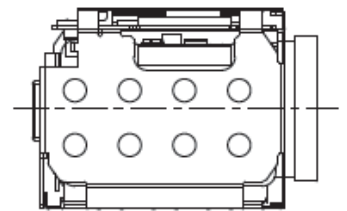


## Dimensions

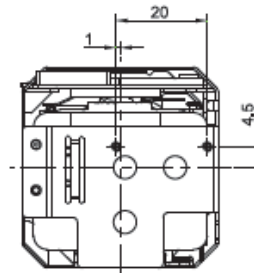
Unit : mm



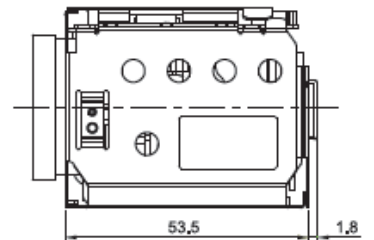
FRONT



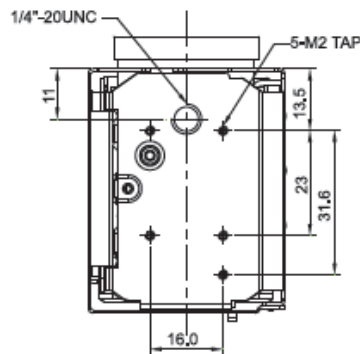
LEFT SIDE



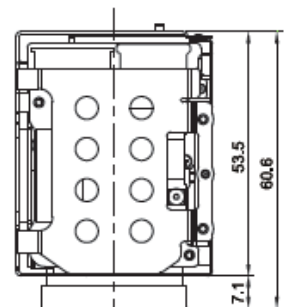
BACK



RIGHT SIDE



BOTTOM

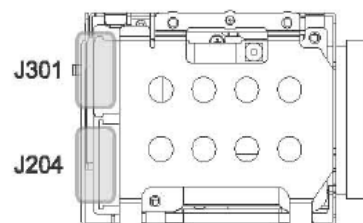


TOP

## Specifications

| MC-108-M3                 |   |      |      |      |
|---------------------------|---|------|------|------|
| Image Sensor              | 1/2.8" Sony Starvis CMOS Sensor   |      |      |      |
| Total Pixels              | 1,945(H) x 1,109(V) = 2.16M Pixels  |      |      |      |
| Effective Pixels          | 1,945(H) x 1,097(V) = 2.13M Pixels  |      |      |      |
| Scanning System           | Progressive Scan  |      |      |      |
| Sinc. System              | Internal  |      |      |      |
| Resolution                | Digital: 1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps       |      |      |      |
|                           | Analog: 700TVL  |      |      |      |
| Min. illumination         | Color(1/30s) : 0.003 lux, BW(1/30s) : 0.0004 lux                                |      |      |      |
|                           | Color DSS(1/8s) : 0.00075 lux, BW DSS(1/8s) : 0.0001 lux                        |      |      |      |
| Video Output              | HD: LVDS / EX-SDI   |      |      |      |
|                           | Analog SD : VBS(without WDR)  |      |      |      |
| S/N Ratio                 | more than 50dB (AGC off)  |      |      |      |
| Lens Type                 | 10x Day & Night Zoom Lens   |      |      |      |
| Zoom Ratio                | Optical x10, Digital x32 Zoom   |      |      |      |
| Focal Length              | f = 5.1mm ~ 51mm  |      |      |      |
| Aperture Ratio            | F1.6 (wide) ~ F1.8 (tele)   |      |      |      |
| Angle of View(D, H, V)    | Wide  | 64°  | 57°  | 34°  |
|                           | Tele  | 7,1° | 6,2° | 3,5° |
| AF Mode                   | Auto / One Push / Manual  |      |      |      |
| Min. Distance             | 0.1 / 1.0 / 3.0 / 5.0 / 10.0 m  |      |      |      |
| Lens Refresh              | One Push / 1 ~ 10Day  |      |      |      |
| Digital Zoom              | Off / MAX x2 ~ x32  |      |      |      |
| Exposure                  | Mode / AGC / Shut Speed / Iris / DSS / Flickerless / Brightness / WDR/BLC / D&N |      |      |      |
| Gain Control(AGC)         | Off / On  |      |      |      |
| Shutter Speed             | 1/30(25) ~ 1/30,000 sec   |      |      |      |
| Iris                      | 0 ~ 20 steps  |      |      |      |
| Digital Slow Shutter(DSS) | Off / x2 / x4 (/ x8 : 60 or 50 fps mode only)                                   |      |      |      |
| Brightness                | 0 ~ 20 steps  |      |      |      |
| WDR/BLC                   | OFF / WDR / BLC   |      |      |      |
| Day&Night                 | Auto / Day / Night / Ext-in   |      |      |      |
| White Balance             | Auto / One Push / Manual / Indoor / Outdoor                                     |      |      |      |
| HLC                       | Off / On / Night Only   |      |      |      |
| DNR                       | Auto / Off / Low / Middle / High  |      |      |      |
| Mirror                    | Off / H / V / H&V   |      |      |      |
| Sharpness                 | 0 ~ 10 steps  |      |      |      |
| ACE                       | Off / Low / Middle / High   |      |      |      |
| Defog                     | Off / On (Auto / Manual)  |      |      |      |
| Privacy Mask              | Max. 24 Areas   |      |      |      |
| Motion Detection          | Max. 3 Areas  |      |      |      |
| Defect Detection          | Off / On  |      |      |      |
| System                    | NTSC / PAL  |      |      |      |
| Communication             | Baud Rate : 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200                 |      |      |      |
|                           | Protocol : Pelco-P / Pelco-D / VISCA / Update                                   |      |      |      |
| Language                  | English / Simplified Chinese / Traditional Chinese /                            |      |      |      |
| Power Source              | 9V to 15V DC  |      |      |      |
| Power Consumption         | MAX 400mA   |      |      |      |
| Power Input               | Connector   |      |      |      |
| Video Output              | Connector   |      |      |      |
| Storage Temperature       | -20°C ~ +60°C (Humidity : 0%RH ~ 90%RH)   |      |      |      |
| Operating Temperature     | -10°C ~ +50°C (Humidity : 0%RH ~ 90%RH)   |      |      |      |
| Dimensions                | 43(W) x 44(H) x 60.6(D)   |      |      |      |
| Weight                    | 112g  |      |      |      |

## Pin Assignment



| J301 |             |
|------|-------------|
| 1    | TXOUT3+     |
| 2    | TXOUT3-     |
| 3    | TXCLKOUT+   |
| 4    | TXCLKOUT-   |
| 5    | TXOUT2+     |
| 6    | TXOUT2-     |
| 7    | TXOUT1+     |
| 8    | TXOUT1-     |
| 9    | TXOUTO+     |
| 10   | TXOUTO-     |
| 11   | GND         |
| 12   | TxD CMOS 5V |
| 13   | RxD         |
| 14   | DC+12V IN   |
| 15   | DC+12V IN   |
| 16   | DC+12V IN   |
| 17   | DC+12V IN   |
| 18   | DC+12V IN   |
| 19   | GND         |
| 20   | GND         |
| 21   | TXOUT7+     |
| 22   | TXOUT7-     |
| 23   | TXOUT6+     |
| 24   | TXOUT6-     |
| 25   | EX-SDI+     |
| 26   | EX-SDI-     |
| 27   | TXOUT5+     |
| 28   | TXOUT5-     |
| 29   | TXOUT4+     |
| 30   | TXOUT4-     |

| J204 |           |
|------|-----------|
| 1    | GND       |
| 2    | TxD       |
| 3    | RxD       |
| 4    | NC        |
| 5    | GND       |
| 6    | NC        |
| 7    | GND       |
| 8    | ADKEY     |
| 9    | NC        |
| 10   | D/N-IN    |
| 11   | NC        |
| 12   | MD-OUT    |
| 13   | 485-DIR   |
| 14   | F/W SEL   |
| 15   | GND       |
| 16   | DC+5V OUT |
| 17   | GND       |
| 18   | VBS-OUT   |
| 19   | GND       |
| 20   | DC+12V IN |
| 21   | DC+12V IN |
| 22   | DC+12V IN |
| 23   | DC+12V IN |
| 24   | DC+12V IN |

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(YEONHO)

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\*Design and specifications are subject to change without notice.