



## FEATURES

### Uncooled Thermal Imaging Camera

- 1280 x 720 Output Resolution
- NETD : <55mk (@300K,F1.0)
- Pixel Pitch : 12μm

### Temperature Detection

- Area (10) / Center / Mask (3)
- Temperature Range -20°C ~ 350°C
- Accuracy ±2°C or ±2%

## SPECIFICATIONS

\* Specifications are subject to change without notice.

| THERMAL MODULE        |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| SENSOR                |                                                                                                   |
| Thermal Sensor        | Uncooled Microbolometer                                                                           |
| Pixel Pitch           | 12μm                                                                                              |
| Wave Length           | 8 ~ 14μm                                                                                          |
| NETD                  | <55mk (@f1.0, 30Hz, 300k)                                                                         |
| VIDEO                 |                                                                                                   |
| Output Frequency      | NTSC : 59.94Hz (30fps), PAL : 50Hz (25fps)                                                        |
| Video Output          | CVBS : 1.0Vp-p/75Ω                                                                                |
| Array Format          | 640 x 480                                                                                         |
| Output Resolution     | 1280 x 720                                                                                        |
| LENS                  |                                                                                                   |
| Lens                  | 8mm (FOV 58.3°x42.5°)[Basic]/19mm (FOV 22.8°x17.2°)[Option], 35mm (FOV 12.5°x9.4°)[Option]        |
| MEASUREMENT           |                                                                                                   |
| Detect Mode           | Area (10) / Center / Mask (3)                                                                     |
| Temperature Range     | -20°C ~ 350°C                                                                                     |
| Accuracy              | ±2°C or ±2%                                                                                       |
| Emissivity Correction | 0.10 ~ 2.00                                                                                       |
| FUNCTION              |                                                                                                   |
| Calibration           | Manual / Auto / Interval                                                                          |
| IDE Set               | 0 ~ 30 (31 steps)                                                                                 |
| Mirror Mode           | Enable / Disable                                                                                  |
| Image Flip            | Enable / Disable                                                                                  |
| Inverse Mode          | Enable / Disable                                                                                  |
| Image Mode            | 11 Colors(Gray/Rainbow/Iron/Jet/Thermal/BlueOrangelcb/Smart/Cool/Gray+Rainbow/Gray+Jet/Gray+Iron) |
| AGC Mode              | MGC Mode / AGC#1(Low) / AGC#2(Middle) / AGC#3(High)                                               |
| MECHANICAL            |                                                                                                   |
| Dimensions            | 337.1mm(W) x 273.6mm(H) x 153.7mm(D)                                                              |
| Weight                | 2.3kg                                                                                             |
| ELECTRICAL            |                                                                                                   |
| Power Consumption     | DC12V 1.73A 21.0W Max                                                                             |
| Power Supply          | 12V DC (2A)                                                                                       |
| ETC                   |                                                                                                   |
| Interface             | IP                                                                                                |
| Storage Temperature   | -40°C ~ 60°C                                                                                      |
| Operating Temperature | -20°C ~ 55°C                                                                                      |

| NETWORK            |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Video compression  | H.265 Main profile, H.264(High, Main, Base Line profile), MJPEG                                                                      |
| Resolution         | Color : 1920x1080, 1280x1024, 1280x720, 704x480, 704x576, 640x486, 352x288, 320x240<br>Thermal : 1280x720, 720x480, 640x480, 320x240 |
| Frame Rate         | Color : Max 60fps @ 1920X1080<br>Thermal : Max 30fps @ 1280X720                                                                      |
| Video Streaming    | H.265, H.264, M-JPEG Triple Streaming (Independently controllable frame rate and bandwidth)                                          |
| LAN Interface      | 10/100BaseT Ethernet Auto-Aware                                                                                                      |
| Control            | Joystick Controller (RS-485: Pelco-D)                                                                                                |
| Security Features  | Multi user level protection for camera access                                                                                        |
| Support Protocol   | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UPnP, RTSP, RTPC, DHCP, ARP, Zeroconf                                                        |
| Viewer and Control | Easy access through the viewer, controlling/setting temperature measurement functionality with dedicated software.                   |

## DIMENSIONS

