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| **Infrared thermal imaging core** | | | | |
| **Model#** | **FO-A317-V01** | **FO-H617-V04** | **FO-H612-V01** | **FO-H1212-V01** |
| **Sensor Performance** | | | | |
| Sensor type | VOx Uncooled FPA | | | |
| Resolution | 384×288 | 640×512 | 640×512 | 1280×1024 |
| Pixel pitch | **17μm** | | **12μm** | |
| Frame Rate | 50Hz | 50Hz | 25Hz | 50Hz |
| Response wavelength | 8～14μm | | | |
| NETD | ≤45mK@25℃ | | | |
| **Image Adjustment** | | | | |
| Brightness and contrast | Manual/Auto | | | |
| Polarity | Black hot/White hot | | | |
| Pseudo-color | Multiple pseudo colors available | | | |
| Reticle | Display/blank/move | | | |
| Electronic zoom | 2x ,4x , 8x | | | 1-16x Stepless zoom |
| Image processing | Non-uniformity correction | | | |
| Digital filter noise reduction | | | |
| Digital detail enhancement | | | |
| Image mirroring | Left/right;up/down;diagonal | | | |
| **Software function** | | | | |
| Start-up interface | Gray and neutral screen without any words(customizable) | | | |
| Boot time | ≤15S | | | |
| Program upgrade | support serial port upgrade | | | |
| **Lens control** | | | | |
| Lens type | Single FOV/dual FOV/continuous zoom | | | |
| One-click focus | Support | | | |
| Motorized focus | Continuous adjustment/fine adjustment | | | |
| Electric autofocus &zoom | Continuous adjustment/fine adjustment | | | |
| **Power supply** | | | | |
| Typical supply voltage | 12V DC | | | |
| Power supply protection | Overvoltage, undervoltage, reverse connection | | | |
| Typical power consumption | ＜1.8W | ＜2.2W | ＜2.2W@25℃ | ＜4.4W@25℃ |
| **Interface** | | | | |
| Analog Video output | 1 way PAL /NTSC | | | / |
| Digital Video output | LVDS/BT.656/BT.1120/SDI | | | SDI |
| Serial communication | RS232/RS485（Baud rate：115200（N,8,1）） | | | |
| PELCO protocol |  | | | |
| **Physical characteristics** | | | | |
| Weight (w/t lens) | ≤80g | | ≤60g | ≤150g |
| Dimension (w/t lens) | 40mm×40mmx34mm | | 34mmx34mmx34mm | 55mm×55mmx37mm |
| **Environmental adaptability** | | | | |
| Working temperature | -40℃～+60℃ | | | |
| Working humidity | 0%～90%RH | | | |
| Storage temperature | -45℃～+70℃ | | | |
| Storage humidity | 0%～95%RH | | | |
| Impulse Test | GJB150-18 Experiment 7 100g/6ms | | | |
| Vibration Test | GJB150-16 2.3.1.1 | | | |