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| **IP Thermometer Core** | | |
| **Model#** | **FNT-A317-V02** | **FNT-H617-V02** |
| **Sensor** | | |
| Sensor type | VOx Uncooled FPA | |
| Resolution | 384x288 | 640×512 |
| Pixel size | 17μm | |
| Frame rate | 50Hz | 25Hz |
| Respond wavelength | 8～14μm | |
| NETD | ≤45mK@25℃ | |
| **Image Adjustment** | | |
| Brightness/Contrast | Auto/Manual | |
| Image polarity | Black hot/white hot | |
| Pcolor | Multiple pseudo colors available | |
| Reticle | Display/blank/move | |
| Electronic Zoom | 2x，4× | |
| Imaging process | NUC | |
| Digital filter noise reduction | |
| DDE | |
| Imaging mirror | Left and right/up and down/diagonal | |
| **Software** | | |
| Boot interface | Gray and neutral screen without any words (customizable) | |
| Boot time | ≤20S | |
| Program upgrade | Serial upgrade doable | |
| **Optical** | | |
| Lens type | Single FOV / dual FOV/ continuous zoom | |
| Auto focus | Support | |
| Electric focus | Continuous adjustment/fine adjustment (duty cycle adjustable) | |
| Electric zoom | Continuous adjustment/fine adjustment (duty cycle adjustable) | |
| **Power Supply** | | |
| Typical supply voltage | 12V DC | |
| Power protection | Support overvoltage, undervoltage, reverse connection | |
| Typical power consumption@25℃ | ＜2.2W | |
| **Interface** | | |
| Analog video output | 1 channel PAL | |
| Digital video output | RJ45 10M/100M adaptive Ethernet | |
| Serial communication interface | RS232/RS485（（N,8,1）） | |
| PELCO agreement | Support standard PELCO-D protocol | |
| **Network** | | |
| Network Interface | RJ45 10M/100M adaptive Ethernet | |
| Network protocol | Ethernet/IP,TCP,UDP,RTSP,HTTP,ICMP,SMTP,DHCP,UPnP,PPPOE | |
| Ethernet | Control and transfer images | |
| Interface Protocol | ONVIF customizable | |
| Video compression | H.264/H.265 | |
| **Thermometry** | | |
| Thermometry range | -20℃~+150℃, 0℃~+410℃ | |
| Thermometry accuracy | ±2℃ or ±2% | |
| Thermometry method | Support multiple methods such as global, point, line, rectangle, etc. | |
| **Mechanical** | | |
| Weight(without lens) | ≤335g | |
| Dimension (without lens) | 88mm×70mm×65mm | |
| **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 7th 100g/6ms | |
| Vibration Test | GJB150-16 2.3.1.1 | |