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| **Basic Infrared Rifle-sight** |
| **Sensor Performance** |
|  | **FM-A317-W35-V02** | **FM-A612-W40** |
| Resolution | 384×288 | 640x512 |
| Pixel size | 17μm | 12μm |
| Wavelength | 8～14μm |
| **Optical performance** |
| MRTD | ≤400mk |
| Focal length | 40mm |
| FOV | 9.32°×7.00° | 10.96°×8.78° |
| Focusing | Manual，10m～+∞ |
| Display | Color OLED |
| Diopter adjustment | -5～+3 diopter |
| **Aiming performance** |
| Recognition distance | ≥450m |
| Reticle adjustment range | ≥±15mil |
| Reticle adjustment accuracy | ≤0.5mil |
| Zero movement after shooting | ≤0.5mil（Including reloading card） |
| **Image processing** |
| Image polarity | White heat, black heat, green heat |
| Zoom | X2，picture-in-picture |
| Brightness | 1 to 100 adjustable |
| Contrast | 1 to 100 adjustable |
| **Power Supply** |
| Battery | Rechargeable dual 18650 lithium battery |
| Continuous working time | ≥9h | ≥6h |
| **Connector** |
| Rifle interface | Picatinny |
| Electrical Interface | PAL analog video output；RS232 |
| **Environmental adaptability** |
| Storage temperature | -50℃～+60℃ |
| Working temperature | -40℃～+50℃ |
| Vibration Test | For whole packed device, with the frequency 5Hz～200Hz～5Hz, the acceleration 2g, scann each once of the three mutually perpendicular directions, and keep the scanning as 15min. |
| Shock Test | Half sine wave, acceleration of 300g, duration of 0.8ms, 10 impacts on the front and back of the optical axis (whole device) |
| Humidity | (95±3%@+35℃), rain (1.77mm/min, time 30min) according to the relevant regulations of GJB595.7-88 (whole device) |
| Proof level | Meets the requirements of waterproof, anti-corrosion, anti-salt spray, anti-sand dust, and low-pressure resistance |
| **Reliability** |
| Life cycle | ≥10000 shot |
| Mean time between failures | ≥500h |
| Button life | Switches and button keys have no fault operation times ≥ 3000 times (whole device) |
| Battery reverse connection protection | No distinction between positive and negative, both can be installed |
| **Physical characteristics** |
| Dimension | 250mm×73mm×90mm |
| Weight | ≤790g |