

Unlock Hidden Detail with HD AMOLED Display

TU Gen2 Series Thermal Imaging Scope

The TU Gen2 Series is equipped with a high-sensitivity thermal sensor of 12µm and a 1440×1080 HD AMOLED display. Paired with the robust PurelR image algorithm, it provides users with a more vivid and detailed visual experience. The product has undergone meticulous optimization in its detailed design, elevating user-friendly operation. Furthermore, the battery life has seen a substantial extension, resulting in a 20% increase in duration.

- HD AMOLED display for higher image quality and reduced visual fatigue
- The PureIR algorithm for high-sensitivity thermal images
- Super long battery life of up to 12 hours
- OTA firmware upgrade by connecting to the APP
- Photo and video recording to keep the best moments
- IP67 encapsulation, resistant to 800G shock
- User-friendly improved left-hand operation experience and optimized opening direction of USB cover

- Night Hunting
- Law Enforcement
- Personal security

Search & Rescue





+86 27 8129 8784

Specifications

| Product model | TU431 | TU451 | TU631 | TU651 |
|--------------------|--|---------------|---------------------------------------|---------------|
| Sensor | | | | |
| Туре | Uncooled VOx Infrared Detector, 8 to 14 µm | | | |
| Resolution | 400×300@12µm 640×480@12µm | | |)@12µm |
| NETD | 30mK | | | |
| Frame rate | 50 Hz | | | |
| Lens | 1 | | | |
| Objective lens | 35mm, F1.0 | 50mm, F1.0 | 35mm, F1.0 | 50mm, F1.0 |
| Field of view | 7.8°×5.9° | 5.5°×4.1° | 12.5°×9.4° | 8.8°×6.6° |
| FOV m @100m | 14×10 | 10×7 | 22×16 | 15×12 |
| Magnification | 2.65x~10.6x | 3.78x~15.12x | 1.65x~13.2x | 2.36x~18.88 |
| Detection range | 1800m/ 1950yd | 2600m/ 2800yd | 1800m/ 1950yd | 2600m/ 2800yd |
| Display | | | · · · · · · · · · · · · · · · · · · · | |
| Display type | 0.39" AMOLED 1440×1080 | | | |
| Color palettes | White Hot, Black Hot, adjustable Red Hot , Green Hot, Iron Red, Blue Hot | | | |
| Eyepiece | Exit pupil distance 48 mm; Diopter \pm 4; Zoom: 14x | | | |
| Hardware | | | | |
| WIFI | 2.4G | | | |
| Interface | USB Type-C; Micro HDMI | | | |
| Tube diameter | Standard 30 mm | | | |
| System | | | | |
| Recording function | Photo/Video | | | |
| Memory capacity | 128GB | | | |
| Power | 1 | | | |
| Battery type | Single 18650 battery (built-in) and customized battery (external) | | | |
| Operating time | 12 hours | | | |
| Environmental | 1 | | | |
| Operating temp. | -30 °C to 50 °C/ -22°F to +122°F | | | |
| Shock | 800 G at 1 ms half sine pulse (as per IEC60068-2-27) | | | |
| Encapsulation | IP67 | | | |
| Physical | | | | |
| Weight(g/ oz) | 990/ 34.92 | | | |
| Size(mm/ in) | 377×107×69/ 14.84×4.21×2.72 | | | |
| Standard | Device, Lens cover, Eye mask, 5V2A adapter (US, Britain, Australia and Europe), Customized battery×2, Customized battery charger, USB Type-C cable, Micro HDMI cable, Clip×2, Quick start guide, Warranty card | | | |
| Optional | Bluetooth remote control, Customized battery, Extended bracket | | | |