

XM307

Anti-Drone Tracking Point Thermal Scope

XM307 anti-UAV ballistic calculation thermal imaging sight is integrated by uncooled infrared thermal imaging camera, visible light camera, laser ranging module, electronic compass, positioning module, weather module (including temperature, humidity, pressure and wind speed sensors), display module, image processing ballistic calculation and video storage module. It is an intelligent system that can be observed all weather, can identify and calculate the distance and speed of low and slow small targets, and can collect the shooting weather environment in real time and perform ballistic calculation.

Application field

Anti-drone, ballistic calculation, battlefield reconnaissance, target location, etc





- Precision target reconnaissance and positioning
- Multi-projectile trajectory calculation
- Fast and comfortable operation
- Light weight
- Low and slow small drones assist in aiming and shooting
- Target tracking and auxiliary strike
- Fast and stable



Effect diagram



Lock the drone screen

Main function of product

Precision target reconnaissance and positioning

- Self-positioning horizontal accuracy $\leq \pm 5\text{m}$
- Target positioning accuracy $\leq \pm 20\text{m}$

Multi-projectile trajectory calculation

- Measurement of temperature, humidity, pressure and other meteorological parameters
- Supports known cartridge types
- Supports custom cartridge type
- Correctable wind deviation

Fast and comfortable operation

- Interface function operation guide
- Ergonomic design

Light weight

- Small size 245mm*110mm*100mm
- Light weight 1kg

Low and slow small drones assist in strikes

- Low and slow small drone recognition
- Low and slow small drone target positioning
- Low slow small UAV target trajectory calculation and auxiliary strike

Target tracking and auxiliary strike

- Track a uniformly moving target
- Tracking frequency 5Hz
- Three-dimensional velocity measurement and positioning

Fast and stable

- Uncooled, quick start $\leq 30\text{s}$
- Operating temperature range -40°C 至 $+60^{\circ}\text{C}$
- IP67 protection

Main function of product

Image mode

- Visible light
- Infrared thermal imaging
- merge

Visible light

- Resolution:1920*1080
- Target surface size: 1/2.8 inch
- Field of view: 7.8°*6.3°

Infrared thermal imaging

- Resolution:640*512
- Pixel spacing:2 μ m
- Field Angle

Laser ranging

- Laser band:905nm
- Measuring range:5m-1500m

Positioning element

- Positioning mode: Beidou /GPS/GLONASS multi-mode

Electronic compass

- Azimuth measurement accuracy: 0.5° (RMS)
- Pitch Angle accuracy: 0.1° (RMS)

Intelligent automatic correction of magnetic declination

- Can automatically identify the location of the machine (designated location) magnetic declination Angle, No manual correction required

Trajectory solution

- Trajectory entry: Supports custom entry
- Number of ballistics stored :10 sets
- Wind deflection accuracy: 0.05mil
- Angle accuracy: 0.05mil

Working hours

- Continuous working time \geq 5 hours

Weather sensor

- Temperature range: -40°C ~ +60°C
- Humidity range: 0%RH to 100%RH
- Air pressure range: 200hPa ~ 1100hPa

External interface

- DC/USB/PAL/RS232

Main function of product

