

AGT-HMDT50 Dual Spectrum Thermal Helmet Device



Overview:

AGT-HMDT50 dual-spectrum helmet device is integrated with low illumination visible imaging, high performance thermal imaging, audio calls and video display. This device is able to provide effective all-weather reconnaissance work for users and comes with a built-in communication interface for users to obtain real-time information and command orders, and it can record visual information on site to send back through its digital terminal.

The design of this bi-spectral helmet device is done according to ergonomic principles. The detachable structure design which helps to meet the weight distribution requirements of individual reconnaissance terminals - is comfortable to wear and easy to operate. At the same time, the equipment also has the characteristics of small size, light weight, low power consumption and high reliability. With the waterproof and dust-proof performance of IP66, it can meet with the requirements of various harsh environments. This device is widely applicable to military, public security, anti-terrorism, law enforcement, rescue and other users. It can be used for day and night battlefield reconnaissance, battlefield operations, vehicle driving, vigilance patrol, equipment maintenance, emergency rescue, medical rescue, law enforcement and counter-terrorism etc..

Product's Highlights:

1. Integrates with visible Imaging, thermal imaging, audio and other sensors, it can detect targets effectively at night and in harsh weather conditions, bi-spectral fusion is conducive to fast and accurate detection of targets.
2. With high-definition OLED micro-display eyepiece, the image is clear and

bright, and the target is reductive, that helps users to quickly grasp the battlefield situation.

3. With focusing function, that takes into account the detection requirements of long-range and short-range targets, so as to ensure the versatility of the device.
4. Adopting a non-shield design and advanced image algorithm for correction - it can effectively avoid the time blind spot with good image uniformity and dynamic range.
5. The ergonomic principle and detachable structure design helps to satisfy the weight distribution requirements and alleviates the fatigue of users.
6. Easy to operate and high reliability.
7. The whole device is made of super-strong aluminium alloy shell with strong seismic resistance, IP66 protection, rain and dust proof.

Application Range:

1. Battlefield reconnaissance;
2. Criminal investigation;
3. Forensic and Inspection;
4. Vigilance patrol;
5. City Security and Safety Monitoring & Surveillance;
6. Emergency rescue;
7. Counter terrorism activities etc..

Specification:

Model	AGT-HDMT50
Range of Distance (visibility >15 km, humidity ≤50%)	Detection distance: individual soldier (1.7×0.5m): ≥300m, tank (2.3×4.6m): ≥1500m
	Identification: individual soldier (1.7×0.5m): ≥100m, tank (2.3×4.6m): ≥500m
Thermal Imaging	<ol style="list-style-type: none"> 1. Sensor: 5th Uncooled focal plane microbolometer 2. Resolution: 384 × 288 3. Wavelength: 8~14μm 4. NETD: 40mk 5. Polarity: hot-black/hotwhite 6. Pixel space: 17μm 7. Lens: 10mm, F1.0 8. FOV: 36.2° × 27.5°
Visible Imaging	<ol style="list-style-type: none"> 1. Sensor: 1/3" low illumination CCD 2. Resolution: 800 × 600 3. FOV: 31.4° × 23.6°
Audio component	<ol style="list-style-type: none"> 1. Sensitivity of earphone: ≥-100db 2. Sensitivity of Microphone: ≥-40db
Eyepiece Display	<ol style="list-style-type: none"> 1. Display screen: micro OLED screen 2. Resolution: 800 × 600
Other Specification	
<ol style="list-style-type: none"> 1. Video output: PAL 2. Power supply: build-in lithium batteries, external power connection 3. Continuous working hours: >2h (single battery under room temperature) 4. Batteries Selflife: >500 times continuous chargeable 5. Consumption: <5.5W@25°C 6. Mechanical interface: card slot connected with helmet 7. Appearance colour: black 8. Imaging terminal: ≤0.75kg (excluded earphone) 	

- 9. Battery compartment (batteries included): ≤0.3kg
- 10. Dimension: ≤125mm × 115mm × 90mm (without buckle and connecting rod)

Environmental Features

- 1. Protection Grade: IP66
- 2. Working temperature: -25°C ~ +50°C
- 3. Storage temperature: -40°C ~ +60°C
- 4. Vibration condition: power-up the device, long-cruising frequency 5Hz ~ 200Hz, speed increased 1.5g
- 5. Impact condition: half positive wave, pulse width 11ms, speed increased 30g, three times each in three directions.
- 6. In the rain: with power on, under the environment of rain intensity 7mm/min, and rain blowing intensity 18m/s, for 1 hr.

Accessories	Charger, lithium batteries, hand-carry case etc..
-------------	---

* The detection distance is related to the object and environment etc. Please contact with us for further information.



Thermal Effect



Visible Effect