

IR-2300 Multifunctional Portable Infrared Thermal Camera



I. SYSTEM GENERAL INTRODUCTION

IR-2300 thermal camera combines UFPA camera parts, digital compass, laser range-finder, and day telescope. The camera can observe target in air, on ground and sea at day (by day telescope) and night (by infrared Thermal Viewer), as well as measuring the distance. It can be a handheld viewer for single soldier or a fixed monitoring camera. With outstanding performance like long working range, good covert function, penetrating thick smoke, dust, fog or total darkness enabling all-weather observation and monitoring, IR-2300 is a turn-key system for public safety, drug interdiction, forest fire prevention, and costal surveillance.

II. SYSTEM FEATURES

- Built-in digital compass captures three -dimension stance information of the thermal camera;
- Built-in laser range-finder measures the distance in high accuracy;
- No mosaic in zoomed pictures;
- Black/hot and white/ hot switch helps to identify target in long distance;
- Manual/auto brightness and contrast adjustment guarantees the best quality image
- With the help of driving DSP processor, automatic motorized focusing based on digitized image resolution evaluation function simplifies the operation and intensifies focusing accuracy;
- By using uncooled FPA detector 324*256 High sensitivity and long detection range;
- Powerful functions, good augmentability, universal interface, easy for integration and expansion;
- High-accuracy auto temperature control system, no assistant heating or cooling needed. The module can suit ambient temperature of -40C° - 55C°.

IR-2300 Multifunctional Portable Infrared Thermal Camera



III. TECHNICAL SPECIFICATIONS

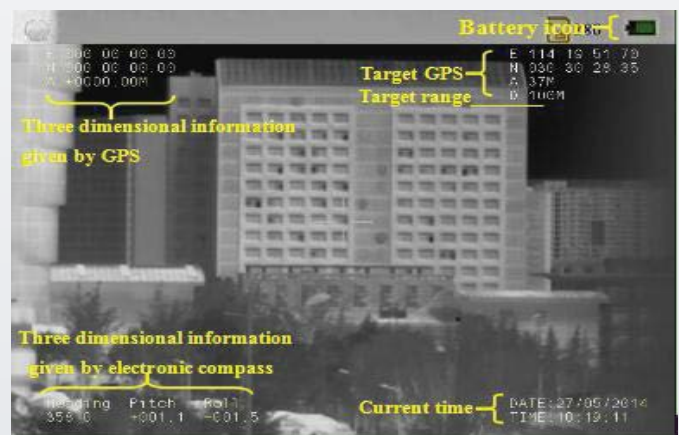
| Thermal imaging camera | |
|-------------------------|-------------------------------------|
| Detector | 324×256, 25μm UFPA detector |
| Spectral range | 8~14μm |
| NETD | ≤50mK@F1.0,300K |
| Lens | 50mm/F0.8 motorized lens |
| FOV | 9.1° × 7.3° |
| Digital Magnification | 2x,4x |
| Spatial resolution | 0.50mrad |
| Focus | Electric focus |
| Visible light camera | |
| Sensor | 1/4 CCD |
| FOV | 4.6° ~46° |
| Lens | 4.2mm~42mm,10X |
| Focus | Manual,Auto |
| Video Coding | |
| Video Format | ASF |
| Video Resolution | 720 × 576 |
| Picture Format | JPEG |
| Picture Resolution | 720 × 576 |
| Image display | |
| Binocular | OLED,640*480 |
| Frame rate | 25Hz |
| Storage | |
| Picture | About 10000 pcs |
| Video | About 18 hours |
| Location | |
| Dual System | GPS / Beidou-2, rate update 1s |
| Electronic compass | |
| Angular accuracy | ±0.5° (Dip angle 0°) |
| Laser rangefinder | |
| Laser type | Semiconductor laser, 1550nm |
| Detection range | 20m-2.5km (2.3m*2.3m vehicle) |
| Ranging accuracy | ±2m (within 1km), ± 5m (1km -2.5km) |
| Interface | |
| Power Supply | DC12V |
| Video Output | 1 PAL |
| Data | 1 USB 2.0 |
| Power | |
| Complete equipment | Rechargeable Li-ion battery |
| Consumption | 5W |
| Continuous working time | >3hours |

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III. TECHNICAL SPECIFICATIONS

| Environmental Specifications | |
|------------------------------|---------------------|
| Operating temperature | -40°C~+55°C |
| Storage temperature | -50°C~+70°C |
| Protection | IP65 |
| Physical Characteristics | |
| Weight | 1.7kg |
| Size | 223mm × 206mm× 82mm |

IV. PARTS DESCRIBED



V. PACKAGE AND SIZE

