



AION UC

Uncooled Handheld Thermal Imager

Key Features

- NUC-less and shutter-less thermal channel
- Excellent thermal sensitivity
- Real-time targeting capabilities
- Advanced image processing
- Lightweight and compact
- Video recording capability
- BT and WiFi transmission
- Digital Zoom
- Target data storage
- MIL-STD-810

The AION UC is a lightweight, high-performance uncooled thermal handheld observation system. The solution offers excellent thermal sensitivity for target discrimination and recognition in total darkness or in obscured daylight conditions.

The handheld sensor is suitable for infantry, Ranger Regiments and Special Forces as well as security and perimeter defence applications. The AION UC incorporates day/night observation and targeting capabilities for NATO targets at distances up to 5,000m.

The system enables real-time calculation of target coordinates, featuring an integrated digital magnetic compass and GPS, and advanced image processing capabilities with an area of interest (AOI) algorithm and automatic gain control. The solution incorporates two observation channels, video recording capability of up to 8 hours, and an integrated target data bank.

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Outline Specification

Thermal Imager

Spectral Band	8-12µm
IR Detector	UC Microbolometer
Sensor Resolution	VGA 640x480
FOV	6.23°x4.67° (±0.5°)

Colour Day Channel

Digital Zoom	2.3x continuous
FOV	3.9°x2.9° - 12.5°x9.3°
Sensor Resolution	5.1 MP

Laser Range Finder

Wavelength	1560nm
Range Capability	50m to 5,000m
Eyesafe	Class 1 laser

Laser Pointer

Wavelength	850nm
Classification	Class III

Physical Properties

Weight (approx)	2.3kg incl.battery
Runtime	>7h (CR123 Battery)
Environmental	MIL-STD-810

Detection and Recognition

Human Detection	1,200 metres
Human Recognition	2,000 metres
Vehicle Detection	2,100 metres
Vehicle Recognition	3,400 metres



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