

iFalconHM-MIL

the first thermal imaging system with real-time, high-power wireless video and data transmission.

640x512 pixels - 7.5-13.5um

Thermal Sensor microbolometer

Display TFT 5.0" RGB

800x480 pixels

High Definition Details View

Visible Camera (CMOS sensor)

Laser pointer

LED illuminator

**5 buttons for easy access
to all functions**

**Swappable Rechargeable
Battery**

910MHz / 2.4GHz 2x2 MIMO

Mesh Operation Long Range

Global Navigation

Satellite System GNSS

Compatible headsets:

CeoTronics, Savox,

Holmco, Imtradex

**Integrated Montionless and Lying
body detection**

TECHNICAL SPECIFICATIONS	iFalconHM-MIL
Material:	Flame retardant Radel® Carbon Fiber with flame retardant resins
Sealing:	IP68
Dimensions:	450x180x285mm (LxWxH)
Weight:	1,65kg (including battery)
Thermal Detector Resolution:	RADIOMETRIC, 640x512 pixels, uncooled microbolometer
Sensitivity:	High Sensitivity 40mK (typical)
Spectral Response:	7.5-13.5 microns
Lens and Protective Window Material:	Germanium
Field of View:	50° H; 37°V;
Frame Rate:	50Hz or 60Hz
Visible Detector:	CMOS sensor 640x480, 0,025lux, 30Hz
Display Size and resolution:	TFT 5.0" RGB, 800x480pixels
Laser Pointer and LED Lighting:	Included
Battery:	Li-Ion Intrinsically safe
Mission Life:	>2h (only thermal); >40min (all on)
Zoom Capacity:	2x/4x/8x
Selectable color palette	12 palettes
LED Light Illuminator	
Compass	
Motionless body detection	
Lying-pose human detection	

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Long Range wireless Video and Data:	Selectable between: Frequency 902-928 GHz, with BPSK or QPSK MESH MIMO modulation Sensitivity -102dBm Output power 30dBm And Frequency 2.402-2.478 GHz, with Modulation BPSK or QPSK MIMO 2x2 Sensitivity -102dBm Output power 30dBm Data Encryption 128-bit AES
Video and Audio Storage:	48 hours minimum Format MPEG 4 - H264
Environment:	-20°C to 85°C (-4°F to 185°F) > 60 minutes 150°C (302°F): 15 min 260°C (500°F): 5 min
Warranty:	2 years
Approvals:	MIL-STD-810H (High Temperature, Salt Fog) IP68
Compliant with standard EN443	
Temperature accuracy: +/-10°C	
Multiple Wireless frequencies for communication redundancy	
Included iFalconAPP-FULL	
Possibility to visualize Video in Real time from other selectable iFalconHM	