

iFalconHM-Full

iFalconHM is the first thermal imaging system that allows a real-time, high-power, wireless video and data transmission

Laser pointer

LED illuminator

640x480 pixels - 7-15um Thermal Sensor microbolometer

Display TFT 5.0" RGB, 800x480 pixels for an optimal detection of the surroundings' details

5 buttons for an easy usability of all functions

Visible Camera (CMOS sensor)

Wireless - 2.4GHz Mesh Operation Long Range

Wireless - 900MHz (Optional) Mesh Operation Long Range

Global Navigation Satellite System GNSS

Compatible headsets: CeoTronics, Savox, Holmco, Imtradex



Bidirectional video and data transmission
iFalcon - Remote Tablet

Details clarity as never seen before

TECHNICAL SPECIFICATIONS	iFalconHM-Full
Material:	Flame retardant Radel® Carbon Fiber with flame retardant resins
Sealing:	IP68
Dimensions:	450x180x285mm (LxWxH)
Weight:	1,5kg (3,30lb)
Thermal Detector Resolution:	640x480 pixels, uncooled microbolometer
Sensitivity:	High Sensitivity 40mK (typical)
Spectral Response:	7.5-15 microns
Lens and Protective Window Material:	Germanium
Field of View:	50° H; 37°V;
Frame Rate:	50Hz or 60Hz
Visible Detector:	CMOS
Display Size and resolution:	TFT 5.0" RGB, 800x480pixels
Laser Pointer & LED Lighting:	Included
Battery:	Li-Ion Intrinsically safe
Mission Life:	>2h (only thermal); >40min (all on)
Zoom Capacity:	2x/4x/8x
Selectable color palette	
Led Light Illuminator	
Compass	
Motionless body detection	
Lying-pose human detection	

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Long Range Wireless Communication:	ISSE 802.11a; 802.11b; 802.11g; 802.11n Tx power: up to 1W Data Encryption 128-bit AES Video and Data Transmission format H264 Transmission range up to 5km (open air)
Image Storage:	1000 minimum Format JPG
Video and Audio Storage:	48 hours minimum Format MPEG 4
Environment:	176° F (80°C)>60 minutes 248° F (120°C)>30 minutes 392° F (200°C)>15 minutes -40° F (-40°C)>25 minutes
Warranty:	2 Years
Approvals:	CE Marking CEI EN 60068-2-1 CEI EN 60068-2-2 CEI EN 60068-2-31 ETSI EN 301 489-1, ETSI EN 301 489-3 CEI EN 60529
Compliant with EN443 rules	
Additional WiFi long range compatibility	
Multiple Wireless frequencies for communication redundancy	

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