

# iFalconHM-Full

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**

**Wireless - 2.4GHz 2x2 MIMO  
Mesh Operation Long Range**

**Global Navigation**

**Satellite System GNSS**

**Compatible headsets:**

**CeoTronics, Savox,  
Holmco, Imtradex**

**Integrated Motionless and Lying  
body detection**

TECHNICAL SPECIFICATIONS		iFalconHM-Full
<b>Material:</b>	Flame retardant Radel® Carbon Fiber with flame retardant resins	
<b>Sealing:</b>	IP68	
<b>Dimensions:</b>	450x180x285mm (LxWxH)	
<b>Weight:</b>	1,65kg (including battery)	
<b>Thermal Detector Resolution:</b>	RADIOMETRIC, 640x512 pixels, uncooled microbolometer	
<b>Sensitivity:</b>	High Sensitivity 50mK (typical)	
<b>Spectral Response:</b>	7.5-13.5 microns	
<b>Lens and Protective Window Material:</b>	Germanium	
<b>Field of View:</b>	48° H; 38°V;	
<b>Frame Rate:</b>	50Hz or 60Hz	
<b>Visible Detector:</b>	CMOS sensor 640x480, 0,025lux, 30Hz	
<b>Display Size and resolution:</b>	TFT 5.0" RGB, 800x480pixels	
<b>Laser Pointer and LED Lighting:</b>	Included	
<b>Battery:</b>	Li-Ion Intrinsically safe	
<b>Mission Life:</b>	>2h (only thermal); >40min (all on)	
<b>Zoom Capacity:</b>	2x/4x/8x	
<b>Selectable color palette</b>	10 palettes	
<b>LED Light Illuminator</b>		
<b>Compass</b>		
<b>Motionless body detection</b>		
<b>Lying-pose human detection</b>		

TECHNICAL SPECIFICATIONS:	iFalconHM-Full
<b>Long Range wireless Video and Data:</b>	Selectable between: Frequency 2.400-2.4835 GHz, with Radio Operation 802.11b/g/n Sensitivity -92dBm Output power 30dBm Or Frequency 2.402-2.478 GHz, with Modulation BPSK or QPSK MIMO 2x2 Sensitivity -102dBm Output power 30dBm Data Encryption 128-bit AES
<b>Video and Audio Storage:</b>	80 hours minimum Format MPEG 4 - H264
<b>Environment:</b>	-20°C to 85°C (-4°F to 185°F) > 60 minutes 150°C (302°F): 15 min 260°C (500°F): 5 min
<b>Warranty:</b>	2 years
<b>Approvals:</b>	CE Marking IP68
<b>Compliant with standard EN443</b>	
<b>Temperature accuracy: +/-10°C</b>	
<b>Multiple Wireless frequencies for communication redundancy</b>	
<b>Included iFalconAPP-FULL</b>	
<b>Possibility to visualize Video in Real time from other selectable iFalconHM</b>	