

FALCON WATCH™
RF-5405VH-GW
INTELLIGENT GATEWAY

Beyond-Line-Of-Sight
Sensor Communications
Actionable Intelligence

The Harris Falcon Watch™ Intelligent Gateway provides beyond-line-of-sight connectivity between forward-deployed Falcon Watch Sensors and Command and Control centers.

The Intelligent Gateway provides beyond-line-of-sight exfiltration of Falcon Watch sensor data via the Iridium satellite system, utilizing the power-efficient Short Burst Data (SBD) mode. Harris Falcon Watch Sensors process input from various detectors and transmit messages to the Intelligent Gateway when a valid event occurs. The Intelligent Gateway further processes multiple alarms creating actionable intelligence reports that are passed via Iridium to remote operators for display using the Falcon Watch RF-5410 Sensor Management Application. Local reporting is also available by connecting the IP data cable to a standalone or networked PC with the Falcon Watch RF-5410 Sensor Management Application. This provides real-time data to personnel in the field.

The Intelligent Gateway is designed to operate unattended in harsh conditions and has been tested to MIL-STD-810 standards. The Intelligent Gateway utilizes efficient power management to maximize battery life for extended deployment. Power is provided via a separate battery unit containing a variable number of batteries depending on mission duration. The Intelligent Gateway can be controlled remotely via the Iridium link throughout the mission. Remote imagery can also be collected and passed over the Iridium link by connecting the Falcon Watch RF-5408-RI Remote Imager to the Intelligent Gateway and using the Falcon Watch Sensors as cues. Status messages indicate tamper or low-battery conditions.



Heighten your *senses.*

SPECIFICATIONS FOR THE RF-5405VH-GW INTELLIGENT GATEWAY

Sensor Frequency Band	138 – 174 MHz (Full Band)
Long-Haul Communications	Iridium Short Burst Data (SBD)
Sensor Interoperability	RF-5400VH-MS (Data Mode) RF-5400VH-SS (Data Mode) RF-5400VH-AS SEIWG-005 Sensors
Positioning	Embedded GPS Receiver and Antenna
Operational Life (without Imager)	<u>2 BA-5390 batteries</u> -3.5 months (100 alarms/day) -18 months in sleep mode <u>6 BA-5390 batteries</u> -10 months (100 alarms/day) -56 months in sleep mode
Data Fusion	Filter, Qualify
Other I/O	Camera Interface, Local IP Data
Configured By	Remote after deployment using RF-5410 SMA, 12047-4120-01 Falcon Watch MPA
Remote Control	Sleep Mode, Health Status Interval, Sensor Filter, Sensor Addition, Imager Cueing
Remote Monitor	Falcon Watch™ RF-5410 Sensor Management Application with Interface to Situational Awareness
Alerts	Low Battery, Health Status, Tamper (Unit)
Power Source	Two external BA-5390 Batteries (12047-2431-03 Small Battery Bag) Six external BA-5390 Batteries (12047-2431-03 Large Battery Bag)
Operating Temperature	-20°C to +65°C
Environmental	MIL-STD-810F
Immersion	One Meter
Size (w/o batteries)	29.2L x 26.7W x 8.2H cm (11.5L x 10.5W x 3.2H in.)
Weight (w/o batteries)	3.3 kg (7.2 lbs)

Falcon Watch™ Intelligent Gateway System Architecture

