

JIM PROTECTOR

MEDIUM-RANGE
MULTIFUNCTION
INFRARED BINOCULARS



- > 5 SENSORS IN A SINGLE COMPACT PACKAGE
- > PORTABLE, STANDALONE OPERATION
- > ADVANCED COMMUNICATIONS CAPABILITIES
- > TARGET OBSERVATION & LOCATION
- > FOR CIVIL & SECURITY APPLICATIONS



JIM PROTECTOR

Medium-range multifunction infrared binoculars

Sagem's JIM Protector binoculars combine five different sensors – daytime channel, thermal (nighttime) channel, laser rangefinder, digital magnetic compass and GPS – to precisely detect, identify and locate persons in danger or hazardous events.

Quiet and compact, JIM Protector is instantly ready for operation, day or night and in all weather conditions.

Precise information is displayed in real time, to enhance the user's decision-making and operational capabilities.

JIM Protector is especially easy to use. It features thermal/optical image fusion and photo/video recording.

Thanks to a full set of latest-generation multimedia interfaces (controls, data and image management), JIM Protector is interoperable with many other systems, including computers and monitors.

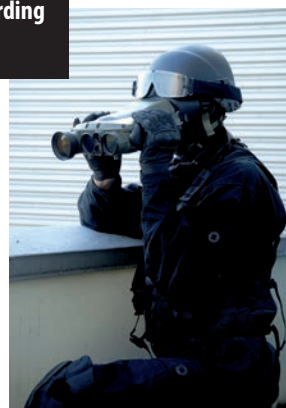
Sagem's family of medium-range JIM binoculars is perfectly suited to both rescue operations and public security missions, including border and infrastructure surveillance, homeland security, law enforcement, immigration control, fire-fighting, environmental protection, etc. Two different medium-range versions of JIM are now available:

	Color daytime channel	Thermal channel	Laser rangefinder	GPS	Digital magnetic compass
JIM Protector	✓	✓	✓	✓	✓
JIM Sentinel	✓	✓			

Accessories

Carry pack, battery charger, power adapter, cables, tripod, portable monitor, transport case, and remote operating system (ROS).

- Compact and robust
- Silent
- Extended run-time
- Reliable, easy to use
- Photo and video recording via USB port



Technical specifications

Weight

- JIM Protector: < 2.3 kg, not including battery
- JIM Sentinel: < 2 kg, not including battery

Observation

Thermal (infrared) channel

- Bandwidth: 8-14 μm (uncooled)
- Detector: 640 x 480 pixels
- Field-of-view: 8.6° x 6.45° and 3° x 2.25° (digital zoom)

Color daytime channel

- Field-of-view: 3° x 2.25°

Image processing and recording

- Stabilization
- Digital zoom
- Image fusion (optional)
- Photo and video recording (internal and USB)

Positioning

Laser rangefinder

- 1.54 μm, eyesafe
- Range: 10 m to 10 km

Magnetic compass

- Azimuth : 360°
- Elevation : ± 40°

Global Positioning System

- Internal, C/A
- Accuracy: 3 m CEP (typical)
- Connection with external GPS

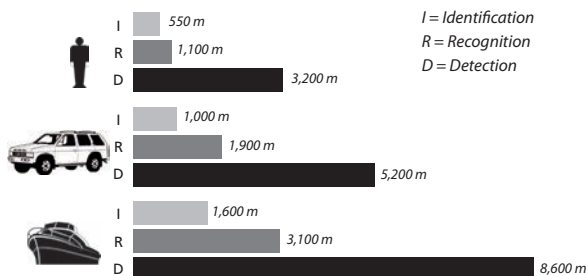
Interfaces

- Analog and digital I/O
- Power supply: battery or external
- Run time: ≥6 hours, with rechargeable battery

Environment

- Operating temperature range: -32°C to +55°C

Typical ranges



SAGEM

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