



JIM LR

Long-Range Multifunction Binoculars

- Handheld & self-powered
- For infantry platoon leaders & special forces
- Advanced functions in a highly-integrated package



Sagem Défense Sécurité
SAFRAN Group



JIM LR

Long-Range Multifunction Binoculars

The JIM LR are a highly-integrated multifunction infrared binoculars combining all the necessary functions of modern warfare in one single unit, namely day and night imaging, range finding, laser pointing, GPS localization and a Digital Magnetic Compass. The JIM binoculars family are designed for military applications and are fully qualified according to the most stringent standards. They are the key to any large-scale infantry modernization program. As part of the France's future soldier program FELIN, they are produced in the thousands, ensuring high quality, reliability and cost-efficiency over the life cycle.



JIM LR is intended for infantry platoon leaders. It is also ideal for special forces operations. The JIM LR is equipped with the latest interfaces to enable collaborative combat, with mutual target acquisition and designation. With its dual-field-of-view cooled thermal imager, separate visible color channel, eye-safe laser range finder, laser pointer, integrated GPS and Digital Magnetic Compass, the JIM LR provides unsurpassed performance, ensuring that the platoon leader is aware of the real-time tactical situation.

Thanks to the combined expertise of Sagem DS and its subsidiary Vectronix AG Switzerland (formerly LEICA DSP), all the critical technologies in the JIM LR are mastered in-house. Furthermore, all JIM binoculars share common hardware and software modules, which greatly simplifies training and logistics.



Technical characteristics

Physical

- Weight (without battery) < 2.8kg
- Noise level: inaudible at distance of 50m

Optronics

Thermal channel

- Waveband: 3 to 5µm (cooled)
- Fields of view : WFOV 9° x 6°
NFOV : 3° x 2°
electronic zoom x2, x4, x8
- NETD ≤ 50mK (at ambient temperature)
- Range performances (Nato tank target)
 - Detection ≥ 9km (typical)
 - Recognition ≥ 3.5km (typical)

Color visible channel

- Fields of view: 3° x 2°

Laser pointer

- Waveband: 0.8µm

Laser Range Finder

- Wavelength: 1.54µm, full eye-safe (class 1, EN 60825-1)
- Typical range ≥ 5km

Localization

Digital Magnetic Compass (DMC):

- Azimuth range: 360°
- Elevation range: ± 30° to ± 45°

Global Positioning System (GPS):

- C/A type
- Connection with external GPS (PLGR type) possible

Electrical

- Power supply: battery packs (primary or rechargeable) or external
- Video output: CCIR (RS170 option)
- Digital I/O: RS422 (control) or FireWire (video + control)
- Autonomy: ≥ 3 hours (at ambient temperature with rechargeable battery)

Environmental

- Climatic: -32°C to +55°C
- Qualified according to MIL-STD 810 & MIL-STD 461

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