

ELECTRONICS & DEFENSE



JIM LR

LONG-RANGE MULTIFUNCTION COOLED INFRARED BINOCULARS

- A complete range of binoculars tailored to operational requirements
- Portable & autonomous
- Advanced communications capabilities
- Target observation & location
- Military & security applications

JIM LR

Lightweight & Long-Range Multifunction Binoculars

Featuring an easy to use, intuitive man-machine interface, Safran Electronics & Defense's JIM LR multifunction binoculars family enhances warfighters' operational capabilities, in terms of threat detection, target acquisition and intelligence gathering for both command and front line units.

JIM binoculars feature a compact, user-friendly design, making them perfect for both military and security applications, including infantry squads, special forces, forward observers, border and coastal patrols, elite gendarme and police units and more. JIM LR is available in three versions to meet different operational needs:

	Thermal channel	VGA Thermal channel	Color daytime channel	Laser rangefinder	GPS	DMC	Laser pointer class 1 or class 3B
JIM Observe	✓		✓				
JIM LR	✓		✓	✓	✓	✓	✓
JIM HR		✓	✓	✓	✓	✓	✓

Using identical interfaces (batteries, connectors, accessories, etc.), these binoculars are interoperable with many different systems and equipment, including screens, processing units, DAGR/PLGR type military GPS receivers, etc.

JIM LR binoculars offer an optional day/thermal channel fusion function, greatly improving their target detection capability.

These binoculars are produced in volume and have been deployed in a number of theaters, amply proving their reliability under all operating conditions.



- > 9,000 JIM binoculars already sold
- Compact, robust design
- Reliable, easy to use
- Image fusion

- Photo/video recording/USB port
- High-performance pointer
- High resolution sensor (VGA)
- Sterna compatible

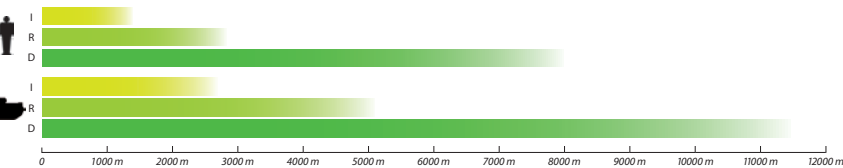


Accessories

Case, battery charger, power supply adapter, afocal lenses (reduce or enlarge field of view), interface cables, tripod, portable monitor, container and Remote Operating System (ROS).

JIM HR ranges

I = Identification
R = Recognition
D = Detection



Technical specifications

Physical (without battery)

- Weight JIM LR / HR: < 2.8 kg
- Weight JIM Observe: < 2.5 kg

Observation

Thermal imager

- Waveband: 3 - 5 μ m (cooled)
- NFOV: 3° x 2.25°
- WFOV: 9° x 6.75°
- Detector: QVGA: 320 x 240 pixels & 384 x 288 pixels (JIM LR / JIM Observe)
- VGA: 640 x 480 pixels (JIM HR)

Visible color channel

- FOV: 3° x 2.25°

Image processing & storage

- Stabilization
- Digital zoom
- Image fusion
- Local contrast enhancement
- Photo/video recording (internal & USB)

Location

Laser Range Finder

- 1.54 μ m, eye-safe
- Ranges: from 10 m up to 10 km

Digital Magnetic Compass

- Azimuth range: 360°
- Elevation range: \pm 40°

Global Positioning System

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

Laser pointer 0.8 μ m

Class 1 pointer

- Power: 0.4 mW
- Range: 300 m

Class 3B pointer (HPD option)

- Power: 15 mW
- Range: 2,500 m

Interfaces

- Analog and digital I/O
- Power supply: external or rechargeable battery
- Autonomy: \geq 5 hours

Environmental

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

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