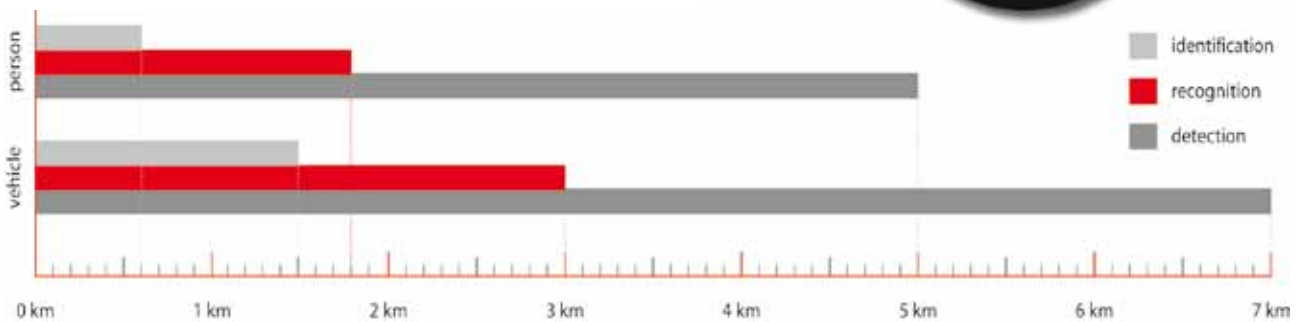


# VarioVIEW™ 150

Lightweight binocular long-range thermal imaging system



Identification of people in front of a vehicle



Surveillance and intelligence

## Outstanding performance features

- Maximum range in this class of device
- Excellent geometrical resolution (640 x 480) IR pixels
- High thermal resolution (< 70 mK)
- Infrared frame rate 30 Hz
- Uncooled FPA detector – minimal follow-up costs
- LRF (1,550 nm, hardly detectable) 5,000 m, eye-safe
- Intuitive operability, simple handling
- High-resolution binocular OLED viewfinder
- Long operating time (> 5 h per battery charge)
- Low weight (< 3.0 kg)

## Users and fields of application

- Police force
- Border Police, Customs
- Federal Office for the Protection of the Constitution
- Disaster relief organization
- Rescue services
- Security services
  
- Site protection, surveillance and intelligence
- SAR missions, mountain rescue service
- Civil defense and emergency management

# VarioVIEW™ 150

## Lightweight binocular long-range thermal imaging system

The newly developed binocular thermal imaging system VarioVIEW™ made by the German manufacturer JENOPTIK Laser, Optik, Systeme GmbH combines a high resolution infrared imager with an eye-safe laser range finder (LRF). A **microbolometer detector** of the highest geometrical resolution currently available in the commercial sector of **(640 x 480) IR pixels** in connection with a highly precise fast 150 mm lens provides for **excellent ranges** in **object detection, recognition and identification**. The LRF works at 1,550 nm, permits most precise distance measuring and is hardly detectable. The easily portable thermal imaging system VarioVIEW™ of less than three kilos in weight distinguishes itself by rugged design, intuitive operability and easy handling.

### Technical specifications

Spectral range	(7.5 ... 14) μm
Detector, Detector format (pixel)	Uncooled microbolometer Focal Plane Array, (640 x 480)
Temperature resolution @ 30 °C	Better than 0.07 K
IR-frame rate	25/30 Hz
Lens (field of view)	150 mm (6.1 x 4.6)°
Electronic zoom	2x and 4x
Focus	Motorized; auto focus function
Detection range (person)	Up to 5 km
Detection range (vehicle)	Up to 7 km
Laser range finder (LRF), type of laser	Diode laser 1,550 nm, eye-safe, hardly detectable
Measurement accuracy of LRF	±1 m (1σ)
Measurement range of LRF	(60 ... 5,000) m
Viewfinder	Binocular, monochrome with eye cup
Type of viewfinder display (pixel)	OLED (800 x 600)
A/D conversion	14 Bit
Interface	PAL/NTSC-FBAS, external power supply (12 ... 24) VDC
Power supply	High capacity Li-Ion battery (fast rechargeable)
Rechargeable battery capacity per charge	More than 5 hrs without battery change
Operation temperature	(-20 ... 50) °C
Dimensions	(284 x 250 x 151) mm
Weight	2.9 kg (without battery)

Design and specification are subject to permanent development; subject to changes in the sense of technical progress.

### Standard accessories

- Robust, water-tight transport case
- Tilting head video tripod with transport case
- 2 pcs. of high-capacity Li-Ion rechargeable batteries
- Instant charger with vehicle adapter
- Plug in mains supply (100 ... 240) VAC / 15 VDC (2 A)
- Vehicle adapter (9 ... 32) VDC / 15 VDC (2 A)
- Extension cable and video cable (BNC/Cinch)
- Manual and Brief Operating Instructions



SAR mission



Civil defense and emergency management



Site protection

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