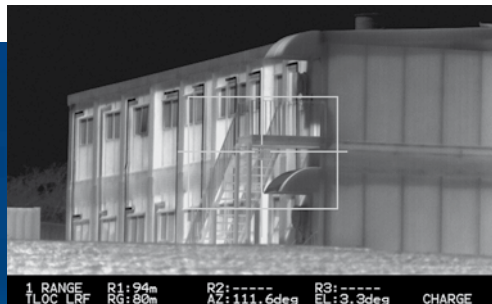


OPUS-H

Laser Target Localisation System



- Uncooled IR channel
- Direct view optical channel
- Laser rangefinder
- Digital compass
- GPS
- Digital camera
- Composite video output
- High-speed serial port



We make it visible.

OPUS-H

The OPUS-H is a world leader in its class of all weather target acquisition systems. It includes a direct view day optical channel and an uncooled IR channel which are both viewable through a binocular eyepiece, a laser rangefinder, GPS, digital magnetic compass and a near infrared digital camera. All features have been integrated into a compact, lightweight system.

The 640 x 480 pixel micro-bolometer provides crisp images for night vision scenarios, while legendary Carl Zeiss direct view optics permit crystal clear day images even if the unit has no power. The fast and accurate Class 1 eyesafe laser rangefinder from Carl Zeiss is safe under all conditions and effectively determines ranges exceeding 20 km. The single pulse laser technology used in the OPUS-H increases the probability of ranging to distant targets without the need for tripod stabilisation. The rangefinder detects and displays up to three targets at any range and permits user-adjustable minimum range gates. The rangefinder combined with the integrated digital compass and GPS system enable target location. The near infrared and IR cameras provide day or night target images that can be transmitted via a high-speed serial interface to command and control and to digital mapping systems together with the target position data for verification and mapping. The system is compatible with GPS systems such as PLGR when it needs it to be interfaced with an external GPS system.



Technical Data

Observation

Type	Direct view
Magnification	7x

Thermal imager

Detector	Uncooled micro-bolometer
Resolution	640 x 480

Laser rangefinder

Laser type	OPO shifted ND:YAG
Class	Class 1 (IEC60825-1 Ed 1.2 of 2001-08)
Range	80 – 20,500 m

Digital compass

Azimuth accuracy	0.6 ° (1 sigma)
Elevation accuracy	0.2 ° (1 sigma)

GPS Integrated	C/A type
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Power

Battery power	8x AA Batteries
Battery life	Typical service life: 3.5 h
External power	10-32 VDC

Interfaces

Mechanical interface	Standard 3/8" BSW tripod mount
Electrical interface	RS 232, RS 422 Video out (CCIR) PAL and NTSC

Other interfaces

	External GPS (e.g. PLGR Garmin) Goniometer
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Physical

Size	300 mm x 212 mm x 105 mm
Weight	<2.9 kg (without batteries)
Operating temperature	-35°C to +60 °C
Storage temperature	-40 °C to +70 °C

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