

Eyesafe, Hand-held Laser Rangefinder HALEM 2



- Eyesafe
- Easy and safe operation
- Sturdy and reliable
- For military applications, state and private security services
- Rangefinding from 50 m to 40 km
- Combination with a night vision device possible



We make it visible.

HALEM 2

Use

HALEM 2 is an easily portable laser rangefinder. It is mainly used as a hand-held unit, but can also be mounted on a tripod or Goniometer for stationary use.

In combination with a Goniometer, which is equipped with a compass and an inclinometer, HALEM 2 becomes a system for determination of the own position and the target position.

Rangefinding

HALEM 2 allows:

- rangefinding for single targets
- simultaneous rangefinding for several targets
- minimum range control

HALEM 2 can store up to 6 measurements, which can be re-called unlimited at any time.

Suitable power sources include batteries, standard rechargeable batteries or an external power supply.

Operation modes

Manual operation:

In manual operation all functions are activated by keys. The right-hand eyepiece is used for viewing and aiming the objects. The diopter setting is used to focus on the object targeted. In the left-hand eyepiece the measured distances and status messages are displayed. They are available simultaneously on the interface.

Remote operation:

In this operation mode the output of all measurements occurs via the serial interface.

User protection

A laser protection filter protects the eye against laser radiation in the 1,064 nm wavelength.

Technical Data

Transmitter

Type	Nd:YAG laser with Raman cell
Wavelength	1,543 nm
Laser class	1M IEC 60825/2001
Eyesafe distance (NOHD)	0 m
Pulse energy	10 mJ
Pulse duration	5 ns
Beam divergence	0.8 mrad
Pulse repetition rate	0.5 Hz

Receiver

Type	InGaAs-PIN diode alternative: InGaAs-Avalanche-Diode
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Viewing optics

Type	8 x 56
Field of view	110 mrad
Reticle	illuminated; illumination can be switched off

Range display

Data display	2 x 5-digit, LED, brightness adjustable
Measuring range	50 m to 39,995 m
Range accuracy	5 m
Target discrimination	20 m
Minimum range control	adjustable in 10 m intervals up to 5,000 m
First target/last target logic	selectable

Interfaces

Manual operation	4 function keys
Remote control and data output	RS 422 interface
Thread for tripod	3/8"

Power supply

Battery type	alkaline manganese batteries, size AA, 1.5 V (> 2,000 measurements) or rechargeable batteries, 10 V to 16 V
Optional external power supply	10 V to 16 V (DC), < 1 A

Weight and dimensions

Weight including battery pack	2.5 kg
Dimensions including eyepieces	210 mm x 180 mm x 85 mm

Reliability

MTBF	> 4,500 hours (> 100,000 measurements)
Operating temperature	-35° C to +63° C

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