

Eyesafe LASER RANGEFINDER **LASERTAPE FG21**



General

The LASERTAPE FG21 is an extremely compact, durable, high performance laser rangefinder for handheld use. Protected by thick rubber, it is ideal for use in harsh environments. Look through the 6x30 sighting optics at almost any arbitrary target. At the push of the trigger button, the LASERTAPE emits pulses of eyesafe laser light toward the object. The LASERTAPE then calculates the distance to the object based on the time taken for the reflected light to return. Distance is displayed in large, easily legible digits in the sighting optics typically in less than one second.

An adjustable short-range suppression feature facilitates reliable use in bad weather conditions such as heavy rain, snowfall, or fog as well as measurements through a window, etc.

Key features

- Reliable semiconductor- laser rangefinder technology
- Not larger or heavier than a conventional pair of binoculars
- Range up to 2500 m "reflectorless"
- Resolution 1 m
- Short measuring time
- Adjustable short-range suppression for measurements under bad conditions (dust, rain, fog...)
- Display of the measured range within the sighting optics field-of-view
- Sighting optics' reticle is coaligned with the measuring beam
- Soundless operation
- Built-in standard batteries "AA"-size

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RIEGL
LASER MEASUREMENT SYSTEMS

Specifications LASERTAPE FG21

Maximum operating range ¹⁾ depending on the reflection characteristics of the target	
<i>Masonry, stones etc.</i>	2000 m @ daylight 2500 m @ dawn or dusk and at night
<i>Trees, bushes etc.</i>	1500 m @ daylight 2000 m @ dawn or dusk and at night
<i>Retroreflecting targets</i>	3000 m
Minimum distance	20 m to 1000 m (adjustable short range suppression)
Accuracy	±1 m
Resolution ²⁾	1 m
Acquisition time	typ. 0.5 s (self-adapting between 0.2 sec. and 3 sec.)

1) Typical values at clear air, visibility 20 km, under an overcast sky

2) Resolution 1 yard or 1 foot can be selected by service personnel

General technical data

Physical data:

Weight
approx. 1.4 kg with batteries

Dimensions
(LxWxH) 185x120x60 mm

Temperature range
Operation -20°C to +55°C
Storage -25°C to +70°C

Internal power supply
6 Alcaline-Manganese batteries of type "AA"

Battery lifetime
>2000 measurements

Buzzer
internal buzzer can be switched on by service personnel

Sighting optics:

Magnification
6 x 30 monocular

Field-of-view
115 m @ 1000 m

Optical quality
all elements multi-layer coated

Display
4 digit alphanumeric LED display within the field-of-view of the sighting optics, automatic brightness control

Optional features available on request:

External power supply
10-14 V DC, 400 mA

Data interface
RS232, 300 ... 19200 Bd

Laser data:

Type pulsed semiconductor laser

Wavelength 0.9 µm

Beam divergence 2 mrad
i.e. approx. 20 cm increase of beamwidth per 100 m of range

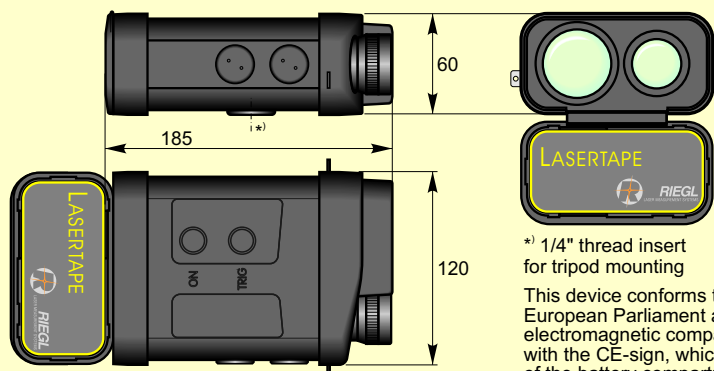
Laser product classification:



according to IEC60825-1:2007

The following clause applies for instruments delivered into the United States:
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Dimensional drawings



*1) 1/4" thread insert for tripod mounting

This device conforms to directive 2004/108/EC of the European Parliament and of the Council concerning electromagnetic compatibility and is therefore marked with the CE-sign, which is affixed on the bottom of the battery compartment of the instrument.

Information contained herein is believed to be accurate and reliable. However, no responsibility is assumed by RIEGL for its use. Technical data are subject to change without notice. Data sheet FG21, 22/02/2010



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