



# HIOKI

## INFRARED THERMO HiTESTER 3419-20

Environmental measuring instruments



### Pistol design with easy-to-see display

### Measuring couldn't be easier !



Measure safely even in dangerous places



LCD



Backlight for operating even in the dark

Laser Marker

Trigger

Simple, one-hand operation

Strap

- Easy Battery Replacement
- F/C Selectable
- Audible Alarm Feature



ISO 9001  
JMM-0216



ISO 14001  
JQA-E-90091



[www.hioki.com](http://www.hioki.com)

HIOKI company overview, new products, environmental considerations and other information are available on our website.

# One-touch measurement – just pull the trigger



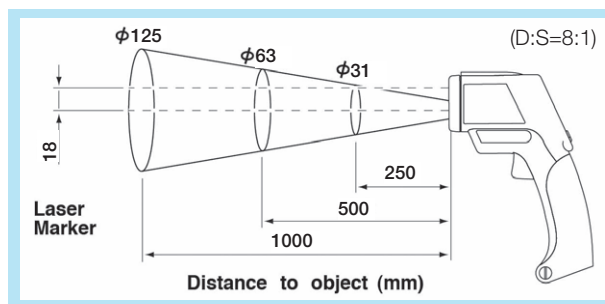
## Useful Functions

- Max/Min Function
- Upper and Lower Alarm Setting
- Stores up to 50 measurements
- Auto Power Off
- Backlight

## Specifications

Detection element	Thermopile
Measurement temperature range	-35 to 500 °C (-31 to 932 °F)
Display resolution	0.1 °C (0.2 °F)
Response time	2 times/ second
Measurement wavelength	6 to 14 μm
Thermal emissivity compensation	0.17 to 1.00 by steps of 0.01
Diameter of field of measurement	125 mm at 1000 mm (D : S= 8 : 1)
Sighting	Laser marker MAX 1 mW (class 2), Red
Power supply	6F22 manganese battery × 1 or 6LR61 alkaline battery × 1
Continuous operating time	Approx. 55 hours (manganese battery), Approx. 80 hours (alkaline battery), When laser marker and backlight are OFF
Accuracy	-35.0 to -0.1 °C : ± 10 % rdg. ± 2 °C 0.0 to 100.0 °C : ± 2 °C 100.1 to 500.0 °C : ± 2 % rdg.
Temperature coefficient	Measurement accuracy × 0.1/ °C
Dimensions	Approx. 46 W × 172 H × 118 D mm (1.81" W × 6.77" H × 4.65" D)(excluding projections)
Mass	Approx. 220 g (7.8 oz.) (including manganese battery × 1)
Location for use	Indoors, altitude up to 2000 m (6562-ft.)
Operating temperature and humidity	0 to 50°C (32°F to 122°F), 80%RH or less (non-condensating)
Storage temperature and humidity	-10 to 50°C (14°F to 122°F), 80%RH or less (non-condensating) 50 to 60°C (122°F to 140°F), 70%RH or less (non-condensating)
Applicable standards	EMC : EN61326 Laser : IEC60825-1 CLASS 2 LASER
Additional Function	MAX/ MIN display, Alarm function, Backlight function, Memory (50 data)
Accessories	Instruction manual, 6F22 manganese battery × 1 (supplied with this product for monitor), Carrying case × 1

## Measurement focus



## Option

### Black body tape

(50 mm × 10 m, 1 roll) Withstands 180°C ε=0.95

\*Optional use of black body tape allows increased emissivity in order to obtain accurate temperature measurements on low-emissivity materials such as metals.



Accessories  
Carrying case

### Laser Product Caution Notice

A caution label is attached to the HiTester. Be sure to observe the operating precautions on the label.



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