

# HIOKI

## INFRARED THERMOMETER FT3700, FT3701

### Non-contact infrared thermometer featuring simple, one-touch measurement

Choose according to your measurement location.

<b>FT3700-20</b> Distance : Spot <b>12 : 1</b> <b>Long-focus</b> For measuring temperature over a wide area	<b>FT3701-20</b> Distance : Spot <b>30 : 1</b> <b>Long-focus, Precise-field</b> For measuring temperature at a single point
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Identify the measurement location reliably.

<b>FT3700-20</b> $\phi$ 83	<b>FT3701-20</b> $\phi$ 52
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Measure the average temperature inside a circle whose diameter is defined by the two indicated points.

Example of a circuit-breaker (At a distance of approx. 1 m)

Bright

Simulated measurement

CE

# Easily measure temperature in hazardous or unreachable locations



## Useful Functions

- MAX, MIN, DIF (MAX-MIN), AVG measurement
- Alarm function
- Emissivity ( $\epsilon$ ) can be set based on the measurement target
- Continuous measurement
- Backlight

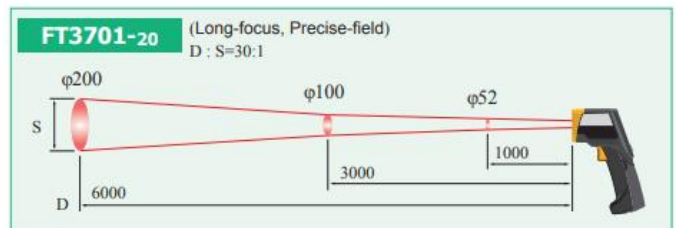
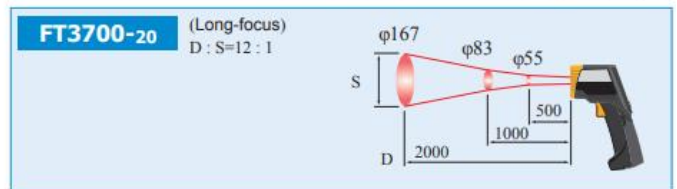
## Specifications

(Accuracy guaranteed for 1 year)

	FT3700-20	FT3701-20
Measurement temperature range	-60.0 to 550.0 °C (-76 to 1022 °F) Guaranteed accuracy range is -35 to 500°C. (-31.0 to 932.0 °F)	-60.0 to 760.0 °C (-76 to 1400 °F) Guaranteed accuracy range is -35 to 500°C. (-31.0 to 932.0 °F)
Accuracy	0.0 to 100.0 °C (-32.0 to 212.0 °F) : $\pm 2$ °C 100.1 to 500.0 °C (212.1 to 932.0 °F) : $\pm 2\%$ rdg. -35.0 to -0.1 °C (-31.0 to 31.9 °F) : $\pm 10\%$ rdg. $\pm 2$ °C -60.0 to -35.1 °C (-76.0 to -31.1 °F) : Accuracy not specified 500.1 to 550.0 °C (932.0 to 1022 °F) (FT3700-20) 500.1 to 760.0 °C (932.0 to 1400 °F) (FT3701-20) : Accuracy not specified	
Accuracy guarantee for temperature and humidity	23 °C $\pm 3$ °C (73 °F $\pm 5$ °F) 80% RH or less (non-condensating)	
Temperature coefficient	Measurement accuracy $\times 0.1/$ °C	
Diameter of field of measurement	83 mm at 1000 mm (Distance : Spot = 12 : 1)	100 mm at 3000 mm (Distance : Spot = 30 : 1)
Response time	1 second (90%)	
Detection element	Thermopile	
Sighting	Two-point laser marker max 1mW (class 2), Red	
Measurement wavelength	8 to 14 $\mu$ m [Thermal emissivity compensation]0.10 to 1.00 by steps of 0.01	
Functions	MAX/ MIN/ DIF (MAX-MIN)/ AVG measurement, Alarm function, Backlight function	
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	
Power supply	LR03 alkaline battery $\times 2$ , 150mVA [Continuous operating time: Approx. 140 hours] (When laser marker and backlight are OFF)	
Dimensions	Approx. 48 W $\times$ 172 H $\times$ 119 D mm (1.89" W $\times$ 6.77" H $\times$ 4.69" D) (excluding projections)	
Mass	Approx. 256 g (9.0 oz.) (including LR03 alkaline battery $\times 2$ )	
Accessories	Instruction manual $\times 1$ , LR03 alkaline battery $\times 2$ (supplied with this product for initial use only), Carrying case $\times 1$	

## Measurement focus

D : Distance (mm) S : Spot (mm)



## Model : INFRARED THERMOMETER

Model No. (Order Code) (Note)

FT3700-20 (Long-focus type)

FT3701-20 (Long focus, precise-field type)

Accessories: Instruction manual  $\times 1$ , LR03 alkaline battery  $\times 2$ , Carrying case  $\times 1$



## Laser Product Caution Notice

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

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