

# HAND-HELD TYPE DIGITAL INFRARED THERMOMETER IR-TA SERIES



- **MODELS** IR-TA (-40 to 500°C)  
IR-TAF (-30 to 350°C)

The IR-TA series hand-held type thermometer measure temperature quickly from a distance – without contact.

Ideal for applications in fields such as refrigeration show cases, transportation, storage, electronic/mechanical parts, food processing, construction, power facilities, etc.



IR-TA

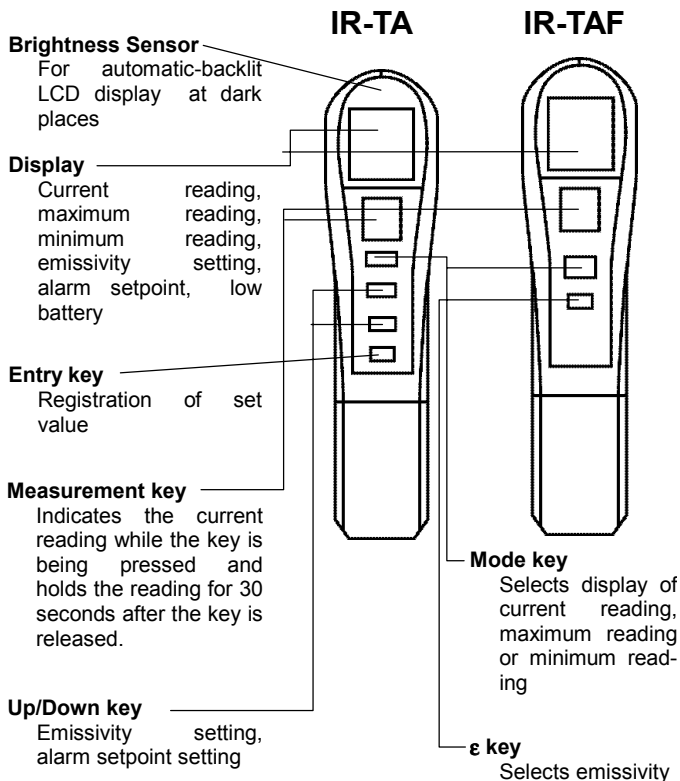


IR-TAF

## ■ FEATURES

- Laser sight pinpoints measured spots. (IR-TA)
- Automatic backlit LCD display at dark places by a brightness sensor (IR-TA)
- Palm-sized, light weight (IR-TA: 180g, IR-TAF: 160g)
- Automatic power off for saving battery life
- Maximum or minimum temperature display
- Audible buzzer high alarm standard (IR-TA)
- Emissivity adjustable 0.30 to 1.90 (0.01 increments) (IR-TA) 0.8, 0.95 and 1.00 (IR-TAF)
- CE conformance (IR-TA)

## ■ KEY FUNCTIONS



## ■ DISPLAY

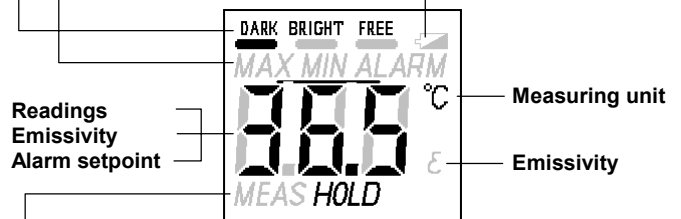
### Emissivity selection

IR-TA - DARK: 0.95 BRIGHT: 0.80 FREE: 0.30 to 1.90  
IR-TAF - DARK: 0.95 BRIGHT: 0.80 STD: 1.00

### Status

MAX: Maximum reading  
MIN: Minimum reading  
ALARM: Alarm status (IR-TA only)

**Low battery indication**  
Blinks at low battery.



### Measurement status

MEAS: Indicates the current reading.  
HOLD: Holds the reading.

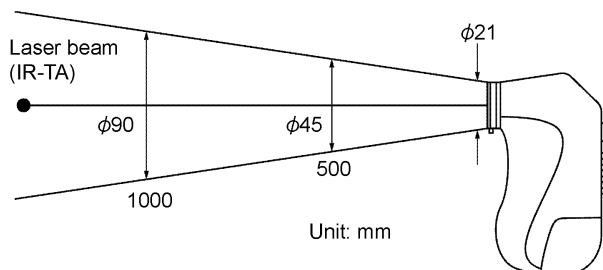
## ■ AUXILIARY PRODUCT (Sold separately)

- Black body tape (Emissivity 0.94)  
Temperature range: 0 to 300°C  
Size: 200 x 200mm

## ■ GENERAL SPECIFICATIONS

	IR-TA	IR-TAF
Temperature Range	-40 to 500°C	-30 to 350°C
Detector	Thermopile	
Spectral Range	8 to 14μm	
Target Size	Ø45/500mm	
Accuracy	±1% of reading or ± 2°C, whichever is larger, ±3°C for -30 to 0°C, ±5°C for less than -30°C (at ambient temperature 25°C)	±1% of reading or ±2°C, whichever is larger, ±3°C for -30 to 0°C (at ambient temperature 25°C)
Repeatability	Within 1°C	
Response Time	0.8 second (90% response)	
Display	LCD 3 figures display	
Resolution	0.1°C at -19.9 to 99.9°C, 1°C except this range	
Output renewal cycle	0.25 seconds	
Targeting	Marking center of measuring spot by laser beam	Not available
Beam Diameter	About 5mm at 1m distance	Not available
Beam Output	Less than 1mW (670 nm), JIS class 2	Not available
Display Contents	Current reading, maximum reading, minimum reading, reading unit, measurement status, emissivity setting, alarm setpoint, low battery	Current reading, maximum reading, minimum reading, reading unit, measurement status, emissivity value selected, low battery
Power Off	Automatic power off after 30 seconds	
Alarm	Audible buzzer high limit, optional low limit	Not available
Emissivity	DARK: 0.95 BRIGHT: 0.80 FREE: 0.30 to 1.90 (1.00 default)	DARK: 0.95 BRIGHT: 0.8 STD: 1.00
Display Illumination	Automatic backlit LCD by brightness sensor	Not available
Operating ambient Temperature/humidity	0 to 50°C, Lower than 90%RH (No dew condensation)	
Storage ambient temperature/humidity	-20 to 55°C, Lower than 90%RH (No dew condensation)	
Power	Alkaline AA (UM-3) battery, 2 pieces	
Battery Life	About 50 hours continuous operation	About 70 hours continuous operation
Size	81W × 142H × 32D mm	
Weight	About 180g	About 160g
Accessories	Alkaline AA (UM-3) battery 2 pieces, Soft vinyl case	
CE conformance	EN55011 Group 1, Class B EN550082-1	

## ■ DISTANCE TO SPOT SIZE



### CAUTION

- Please do not aim or direct laser toward faces.
- On measurement of targets like as glossy metal, be careful with influences by the reflection from it.

Specifications subject to change without notice. Printed in Japan (I) 2002. 5

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