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.

**MODELS IR-TA (-40 to 500°C)**

**FEATURES**

- Laser sight pinpoints measured spots.
- Automatic backlit LCD display at dark places by a brightness sensor
- Palm-sized, light weight (180g)
- Automatic power off for saving battery life
- Maximum or minimum temperature display
- Audible buzzer high alarm standard

**KEY FUNCTIONS**

Brightness Sensor
For automatic-backlit LCD display at dark places

Display
Current reading, maximum reading, minimum reading, emissivity setting, alarm setpoint, low battery

Mode key
Selects display of current reading, maximum reading or minimum reading

Entry key
Registration of set value

Measurement key
Indicates the current reading while the key is being pressed and holds the reading for 30 seconds after the key is released.

Up/Down key
Emissivity setting, alarm setpoint setting

**DISPLAY**

Emissivity selection
DARK: 0.95  BRIGHT: 0.80  FREE: 0.30 to 1.90

Low battery indication
Blinks at low battery.

Status
MAX : Maximum reading
MIN : Minimum reading
ALARM : Alarm status

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

**OPTION**

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

- **Temperature Range**: -40 to 500°C
- **Detector**: Thermopile
- **Spectral Range**: 8 to 14 μm
- **Target Size**: 45/500mm
- **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)
- **Repeatability**: Within ±1°C
- **Response Time**: 0.8 seconds (90% response)
- **Display**: LCD 3 digits 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
- **Beam Diameter**: About 5mm at 1m distance
- **Beam Output**: Less than 1mW (670 nm), JIS class 2
- **Display Contents**: Current reading, maximum reading, minimum reading, reading hold, emissivity setting, alarm setpoint, low battery
- **Power Off**: Automatic power off after 30 seconds
- **Alarm**: Audible buzzer high limit, optional low limit
- **Emissivity**: DARK: 0.95, BRIGHT: 0.95, FREE: 0.30 to 1.90 (1.00 default, 0.01 increments)
- **Display Illumination**: Automatic backlit LCD by brightness sensor
- **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
- **Size**: 81W x 142H x 32D mm
- **Weight**: About 180g
- **Accessories**: Alkaline AA (UM-3) battery 2 pieces, Soft vinyl case
- **CE conformance**: EN61326 Annex-c portable unit

### DISTANCE TO SPOT SIZE

![Distance to Spot Size Diagram]

#### 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) 2010. 11