

HT3320

PROFESSIONAL VIDEO INFRARED THERMOMETER

HT3320 is a digital video thermometer provided with an integrated digital camera capable of measuring temperature without contact thanks to its ergonomic "gun" shape using infrared rays. High accuracy is granted by a built-in laser pointer and a good Distance to Spot ratio of 50:1. The instrument performs saving of JPG pictures and small 3GP videos into its internal memory or external micro SD card as well as temperature recordings with programmable time thanks to the internal data logger feature. All tests can be easily downloaded to a PC through the provided USB cable without any software. Other measurements which can be performed are air temperature/humidity with internal probe, dew point/wet bulb temperature and temperature with K type probe. HT3320 permits to set MAX and MIN alarm thresholds on the whole range activating an alarm buzzer should these limits be exceeded. Data HOLD function freezes results on display. It is provided with a large backlit LCD display for easier reading under critical conditions. The Auto Power Off function preserves internal battery when instrument doesn't work.

TECHNICAL SPECIFICATIONS

Infrared temperature measurement from -50° to 1000°C
(from -58°F to 1832°F)

Integrated camera (640x480pxl)

Distance / Spot ratio of 50:1

Saving of pictures under JPG format

Saving of videos under 3GP format

Measurement of air temperature/humidity with internal sensor

Measurement of dew point/wet bulb temperature

Measurement of temperature with K type probe

Data logger for recording of temperature measurements

Internal memory and external SD Card

Emissivity regulation

Double laser pointer

Selection between $^{\circ}\text{C}$ and $^{\circ}\text{F}$ measurement units

Setting alarm thresholds Hi and Lo on measurements

Data HOLD, MAX/MIN/DIF/AVG features

Continue measurement

Backlight

Auto Power OFF

Connection to PC via USB cable

STANDARD

CE marking

EMC 2004/108/CE directive

ACCESSORIES

Standard

K type probe

Rechargeable battery Li-ION

Battery charger adapter

USB cable

Tripod

Carrying case

User manual



HT3320
HA000179

VIDEO
THERMOMETER
(INFRARED)





1. TECHNICAL SPECIFICATIONS

Accuracy is given as [% of reading + degrees] at reference temperature 18 ÷ 24°C ; < 80%.UR

Infrared measurement

Feature	Range	Resolution	Accuracy	Response time
°C	-50°C ÷ 1000°C	0.1°C	±3.5°C (-50 ÷ 20°C) ±(1.0%rdg + 1.0°C) (20 ÷ 500°C) ±1.5%rdg (500 ÷ 1000°C)	150ms
°F	-58°F ÷ 1832°F	0.1°F	±6.3°F (-58 ÷ 68°F) ±(1.0%rdg + 1.8°F) (68 ÷ 932°F) ±1.5%rdg (932 ÷ 1832°F)	

Spectral response :

8 ÷ 14µm

D/S ratio:

50:1

Emissivity range:

0.10 ÷ 1.00

Sensor:

thermopile

Sighting:

Laser marker <1mW (class 2)

Temperature with type K probe

Feature	Range	Resolution	Accuracy (*)
°C	-50°C ÷ 1370°C	0.1°C	±2.5°C (-50 ÷ 0°C) ±(0.5%rdg + 1.5°C) (0 ÷ 1370°C)
°F	-58°F ÷ 2498°F	0.1°F	±4.5°F (-58 ÷ 32°F) ±(0.5%rdg + 2.7°F) (32 ÷ 2498°F)

(*) Accuracy of instrument without external probe

Air temperature/humidity with internal sensor

Feature	Range	Resolution	Accuracy
Air temperature Dew point temperature Wet bulb	0°C ÷ 50°C (32°C ÷ 122°F)	0.1°C (0.1°F)	±0.5°C / ±0.9°F (10 ÷ 40°C) / (50 ÷ 140°F) ±1.0°C / ±1.8°F (other ranges)
Relative humidity	0 ÷ 100%RH	0.1%	±3%RH (40% ÷ 60%) ±3.5%RH (0% ÷ 40%) e (60% ÷ 80%) ±5%RH (80% ÷ 100%)

2. GENERAL SPECIFICATIONS

Display:	2.2" (320x240pxl LCD with backlight)
Resolution of camera:	3kB (640x480pxl)
Power supply:	1x3.7V battery Li-ION 1400mAh
Battery life:	approx. 4 hours in continue measurement
External adapter:	100-240VAC 50/60Hz / 5VDC
Auto power OFF:	programmable 3, 15, 60min and disable
Internal memory:	70MB (50kB/pic; video 3.1MB/min)
External memory:	micro SD card (max 8GB)
Operating temperature:	0°C to 50°C (32°F a 122°F)
Operating and storage humidity:	below 90%RH
Storage temperature:	-10°C to 60°C (14°F to 140°F).
Dimensions (LxWxH):	205 ×155×62mm
Weight (included battery):	410g

