VIDEO THERMOMETER
HT3320 - PROFESSIONAL INFRARED VIDEO THERMOMETER

HT3320 is a portable digital thermometer provided with built-in camera for easy temperature measurements using infrared radiation. Its measurements are very accurate thanks to a laser pointer as well as to an optimum distance to spot ratio equal to 50:1. The unit is capable of saving JPG pictures and 3GP videos matching IR temperature values on inside memory or on external micro SD card. It also enables temperature recordings with programmable timing. All tests can be easily downloaded to a PC through connecting USB cable provided as accessory. The unit performs further measurements such as air temperature and humidity with internal sensor, dew point/ wet bulb temperature as well as temperature with type K probe. HT3320 permits to set MAX and MIN alarms on the measurement range activating a buzzer in case of exceeding thresholds. A wide back-lighted LCD makes readings easier even in poorly lit environments. Auto power off function preserves battery life.

FUNCTIONS
Infrared temperature measurement from -50°C to 1000°C
Integrated camera (640x480 pxl)
Distance/Spot ratio 50:1
Saving pictures under JPG format
Saving videos under 3GP format
Measurement of air temperature/humidity with internal sensor
Measurement of dew point and wet bulb temperature
Measurement of temperature with type K probe
Datalogger for temperature recordings
Inner memory and external SD card for data storage
Emissivity adjustment
Double laser pointer
Selection between °C and °F
Setting of Hi and Lo alarm thresholds on measurement
Data Hold, MAX/MIN/DIF/AVG
Continuous measurement
Backlighting
Auto Power Off
Connection to PC through USB cable

STANDARDS
CE marking
EMC Directive 2004/108/CE

ACCESSORIES
Standard
Type K probe
Li-ION rechargeable battery
External AC/DC adapter
USB cable
Tripod
Carrying case
User's manual

NEW

HT3320
HA000179

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