

Infrared Thermal Imager Thermo Tracer TH7800

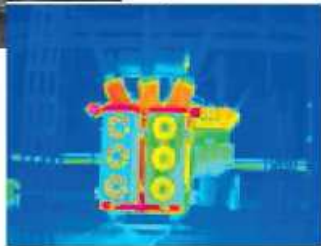
NEC

*Affordable with
High Performance!*



Thermal Image \

/ Visual Image



NEW

■ High quality image

320×240 pixel radiometric Uncooled Focal Plane Array equipped

■ Visual camera built in

Simultaneous storage of infrared and visual images in the same file

■ Flip-up 3.5 inch LCD

Adjustable for suitable angle to your eye position

■ Laser pointer

Shows measuring position

■ Easy to hold

Single hand control with either right or left hand

■ Operability

Operates for 2.5 hours with rechargeable battery

■ Power saving

Stand-by and auto shut-down functions to save power consumption

■ Large memory capacity

Stores 1000 images in the internal flash memory

■ Transfers images to PC via USB2.0

■ Robust

Dust/splash-proof IP54
Shock 294m/sec²(30G)
Vibration 29.4m/sec²(3G)



NEC San-ei Instruments, Ltd.

Specifications

TH7800	
Measuring range Range 1 Range 2	-20 to 250°C -20 to 100°C*1 0 to 250°C*2
Resolution	Range 1: 0.1°C(at 30°C,60Hz) Range 2: 0.15°C(at 90°C,60Hz)
Accuracy	±2°C or ±2% of reading whichever greater
Infrared Detector	Uncooled focal plane array (microbolometer)
Spectral range	8 to 14µm
I.F.O.V.	1.5mrad
Focusing range	50cm to infinity
Field of view	27.0°(H) x 20.0°(V)±5%
Frame time	60 frames/sec
Display	3,5 inch LCD monitor with auto switch
Thermal image pixels	320 (H) x 240 (V) pixels
A/D resolution	14 bits
Measuring functions	Run/Freeze S/N improvement OFF, Σ2, Σ8, Σ16 spatial filter ON/OFF Alarm display (ON/OFF)
Emissivity correction	0.10 to 1.00 (at 0.01 step)
Environment temperature correction	Provided (including interval NUC)
Auto functions	Level trace, auto-gain control
Display functions	Display color : color/monochrome,positive/negative Gradation : 16, 32, 64, 128, 256 Color palette : rainbow, brightness, shine, hot-iron, medical, fine Isothermal display : max. 4 bands Battery monitor
Image processing	Variable level/sense Multi-point temperature display (4pts) Multi-point emissivity display (4pts) Δ T display Max/Min (peak hold) temperature display Alarm (full screen or specified box) Digital zoom : 2, 4 times (Run/Freeze) Box setting (max. 5 boxes)
Image storage	1000 images on internal flash memory
Annotation	Text annotation available
Video signal output	NTSC/PAL, composite/S-video
Interface	USB2.0
Power saving	Stand-by, auto-shutdown
Visual camera	Detector: 0.41Mega pixels Image pixel: 752(H) x 480(V) pixels FOV:34.6°(H) x 25.9°(V) or larger Sensitivity: 1 lx Focusing range: 30cm to infinity Auto exposure: provided Video signal output: NTSC/PAL
Laser pointer	Class 2 (1mW/635nm red)
Operating temperature humidity	-15 to 45°C, 90% RH or less (not condensed)
Storage temperature humidity	-40 to 70°C, 90% RH or less (not condensed)
Power supply	AC adaptor: 100 to 240V AC, 7.2V DC
Shock & vibration	Shock: 294m/sec ² (IEC60068-2-27), Vibration: 29.4m/sec ² (IEC60068-2-6)
Environmental protection	IP54 (IEC60529)
Dimensions & weight	89(W) x 197(H) x 191(D) mm (excluding projections), 1.3kg (including battery)
Standard accessories	AC adaptor, Battery pack (2pcs), battery charger, USB Cable, lens cap, carrying case, viewer software, operation manual

Note : *1 Calibration range 0 to 100°C, range other than the calibration range is theoretical value.

*2 Calibration range 0 to 250°C, range other than the calibration range is theoretical value.



**CAUTION
FOR SAFETY**

Please read "WARNING" & "CAUTION" in the operation manual attached to the product carefully for proper operation before using the product.



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P. IVA 02015010925