

# Infrared Thermometer



8861



8866

## Professional gun type 8861/8866

- ▲ The most professional choice
- ▲ Quick response: 500ms
- ▲ Backlight function selectable
- ▲ Temperature unit °C/°F is switchable
- ▲ Auto power off to save battery power
- ▲ 9 points memory recall
- ▲ D:S ratio is 10:1
- ▲ Powered by 9 volt battery

Model	8861	8866
Temp. range	-20~420°C	
Temp. resolution	1°C/°F	
Temp. accuracy (Which is greater)	+/-2.5% or 2°C (whichever is greater) at 18~28°C operation temperature	
Repeatability	+/-1°C	
Emissivity	0.95	0.3~1.0 Adjustable
D:S ratio	10:1	
LCD size	19(H)x34(W)mm	
Operating temp.	10~40°C	
Operating RH%	Humidity < 80%	
Storage temp.	-20~50°C	
Storage RH%	Humidity < 90%	
Dimension	208x116x49 mm	
Laser sighting	NO	Yes
MAX/MIN/ΔT/AVG	NO	Yes
HI/LOW audible alarm	NO	Yes
9 points memory	Yes	
Weight	240g	
Battery	9V battery x 1pc	
Battery Life	100hours	
Standard Package	Meter/Battery/Manual/Hard carry case	

### EMISSIVITY VALUES

Typical Emissivity Values-Metals

SURFACE	EMISSIVITY
<b>Iron and Steel</b>	
Cast iron (polished)	0.2
Cast iron (tumed at 100°C)	0.45
Cast iron (tumed at 1000°C)	0.6 to 0.7
Steel (ground sheet)	0.6
Mild steel	0.3 to 0.5
Steel plate(oxidized)	0.9
Iron plate (rusted)	0.7 to 0.85
Cast iron (rough)/rusted	0.95
Rough ingot iron	0.9
Molten cast iron	0.3
Molten mid steel	0.3 to 0.4
Stainless steel (polished)	0.1
Stainless steel (Various)	0.2 to 0.6
<b>Aluminum</b>	
Polished aluminum	0.1*
Aluminum (heavily oxidized)	0.25
Aluminum oxide at 260°C	0.6
Aluminum oxide at 800°C	0.3
Aluminum Alloys, various	0.1 to 0.25
<b>Brass</b>	
Brass (polished)	0.1*
Brass (roughened surface)	0.2
Brass (oxide)	0.6
<b>Copper</b>	
Copper (polished)	0.05*
Copper (oxide)	0.8
Molten copper	0.15
<b>Lead</b>	
Lead (Polished)	0.1*
Lead (oxide at 25°C)	0.3
Lead (oxide)	0.6
<b>Nickel and its alloys</b>	
Nickel (pure)	0.1*
Nickel plate (oxide)	0.4 to 0.5
Nichrome	0.7
Nichrome (oxide)	0.95

### EMISSIVITY VALUES

Typical Emissivity Values-Metals

SURFACE	EMISSIVITY
Zinc (oxidized)	0.1*
Galvanized iron	0.3
Tin-plated steel	0.1*
Gold (polished)	0.1*
Silver (polished)	0.1*
Chromium (polished)	0.1*