

Food Grade – Special Purpose**Features**

- **HACCP** indicator lights: red when food is between 4–60°C; green when below 4°C or above 60°C.
- Dual sensors: infrared and probe for fast surface and internal readings.
- IP65 rating: splash- and rain-resistant.
- Front white targeting light clarifies the infrared measurement area.
- Slim, lightweight design for portability.
- IR-SoC design improves accuracy.
- Traceable to NIST.
- Max/Min functions.
- Retractable stainless-steel probe.
- Dual LCD shows contact and non-contact temperatures simultaneously.
- Auto power-off for power saving.

Product Introduction

The D-175 adopts a lead-free material design and has passed **NSF certification**, meeting the specifications for food-grade instruments. It can quickly measure the surface and internal temperature of food ingredients and features HACCP warning lights to let users quickly determine whether the storage temperature of items meets regulations. It is highly suitable for culinary education in schools, as well as food production and management applications.

Detailed Specifications

Specification	D-175
Distance-to-Spot Ratio	2.5 : 1
Temperature Range	-55 ~ 250°C (-67 ~ 482°F) / Probe: -55 ~ 330°C (-67 ~ 626°F)
Spectral Response	6 ~ 14μm
Accuracy	-33~0°C: ±1°C + 0.1 / 0~65°C: ±1°C / 65~250°C:±1.5% Probe: < -5°C: ±1°C / -5~65°C: ±0.5°C / >65°C: ±1%
Resolution	-9.9 ~ 199.9°C: 0.2°C (0.5°F); others 1°C
Response Time	500ms
Emissivity	0.95 (default), adjustable 0.1 ~ 1.0
Protection Rating	IP65
Display Functions	Min / Max / LOCK
Alerts	HACCP flash / HI / LO
Indicator Light	White light
Auto Power Off	10 s / Auto mode 60 min
Operating Humidity	10–100% RH
Operating Temperature	10–40°C
Storage Temperature	-10–60°C
Dimensions	22.18 × 38 × 160 mm

Weight	Approx. 98.1 g
Battery	1.5V (AAA) × 2
Battery Life	Approx. 18 hours
Accessories	Protective case, Manual, 2 Batteries