



FDS-85 Tablet IR Thermometer with Face Identification



With specially designed algorithm, FDS-85 can identify faces with different skin tones and measure the body temperature in great accuracy ($\leq 0.4^{\circ}\text{F}$) at the distance of 5 feet. A subject with elevated body temperature would trigger an alarm, and, with optional gate control kit, FDS-85 can guard the entrance to buildings, shops, or meeting rooms.

Features

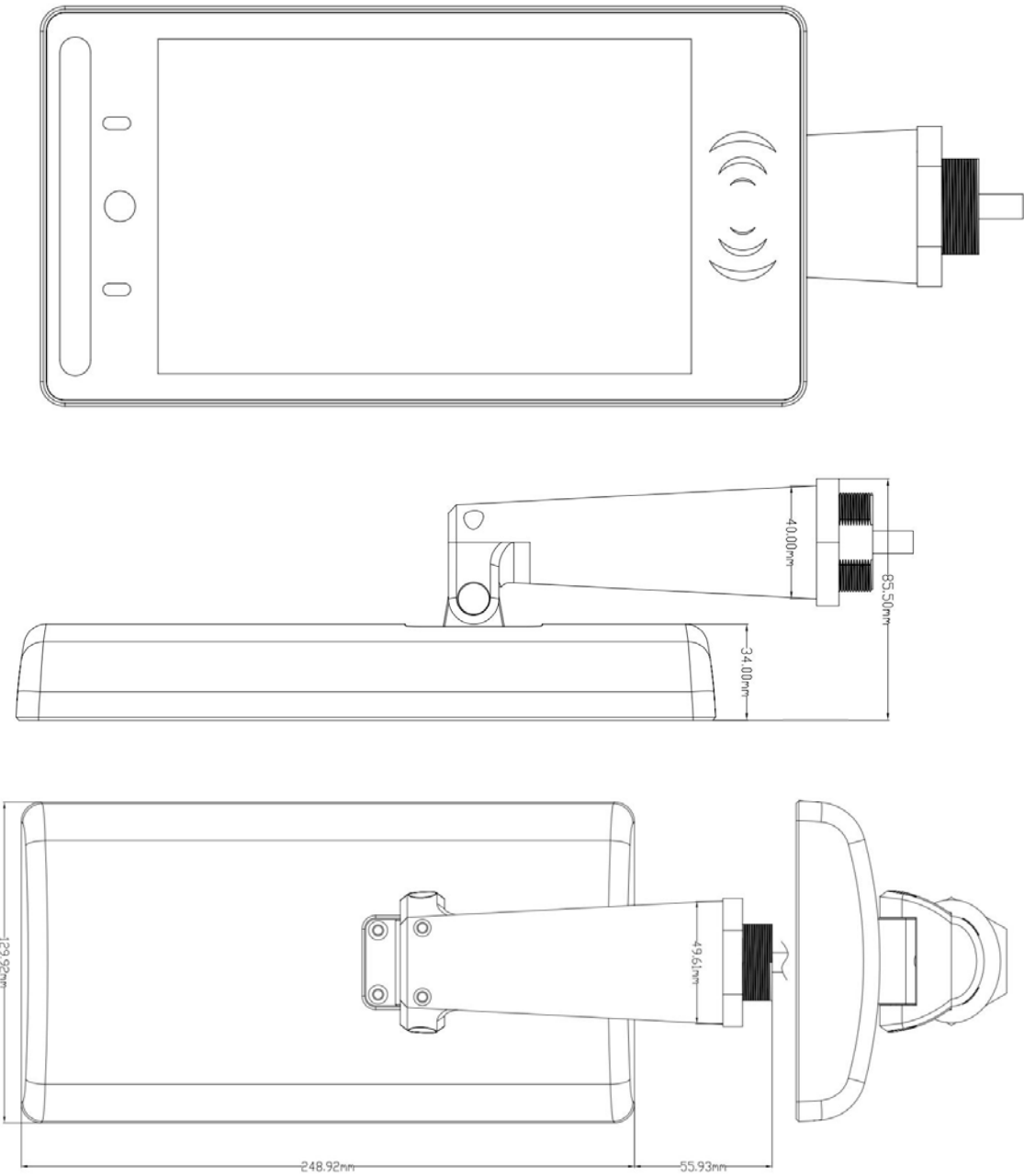
- **German-made Heimann thermal sensor for accurate, fast temperature measurement**
 - ❖ **32x32 resolution with 0.4°F accuracy**
- Waterproof design for indoor/outdoor use
- 8-inch LCD for easy-positioning of face to measure temperature
- Auto-exposure and wide dynamic technology for improved face capture in conditions like bright light, backlight and low light.
- Supports blacklist to prevent unauthorized access.
- Support data export via USB
- Audio output to indicate temperature or access result
- Multiple interfaces supported: Wiegand 26/34, USB, Ethernet
- Able to identify face with a mask

Specification

Hardware		Description
Main	System	Android 5.1
	CPU	Rockchip RK3288K, Cortex-A17, 1.8 GHz
	Memory	2 GB DDR3
	Storage	8 GB EMMC
Visual Camera	Sensor	1/1.8 inch SONY IMX385 Super-star 2.1 megapixel, CMOS sensor
	Dynamic	≥ 120 dB
	Lens	4 mm
Display	Size	8 inch
	Resolution	800x1280
	Angle	0°~30°
Performance		Description
Identification time		≤ 0.6 second (can store up to 20,000 face images)
Method		ID card, Mifare / NFC card, Human face
Accuracy		$\geq 99.99\%$
Pass-ability		99%
Possibility of failure		0.01%
Distance for identification		1~8 ft (0.3~2.5 m)
Faces capacity		No limit
Mask identification		Supported; notification if without a mask
Thermal Performance	Temp. Range	50~120°F (10~50°C), no wind
	Accuracy	$\pm 0.5^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$)
	Resolution	0.2°F (0.1°C)
	Range	1.5~2.5 ft (0.5~0.75 m)

	FOV	90°(H) * 90°(V)
	Response Time	200 ms
Features		Description
Interfaces		Ethernet (RJ-45), USB, Wiegand,
Power		DC 12V
Size (W x H x L)	Tablet	5-1/4 x 11-1/2 x 1-1/8 in (5-1/4 x 14 x 3-1/2 in with mount)
	Kiosk Stand (optional)	8 x 58-1/4 x 12 in
Environment		-22~167°F (-30~75°C), ≤90% RH
Waterproof		IP66

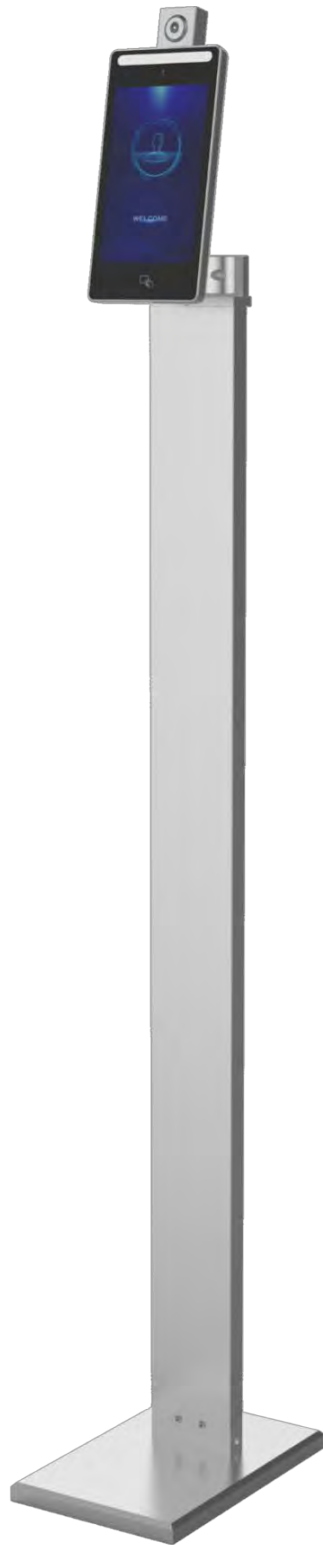
Dimensions



Kiosk Stand (optional)



FDS-85



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rev 2

DISCLAIMER

FDS-85 is not intended to diagnose or monitor any medical condition or illness, and should not be used as such. The product is offered as a useful screening tool to identify individuals who may have an elevated body temperature. It is up to the user to determine how that information is used and to follow up with appropriate actions.

FDS-85 will not detect asymptomatic individuals.

Competent medical advice should be sought if there is any concern around illness, and further checks should be performed by trained medical personnel.



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