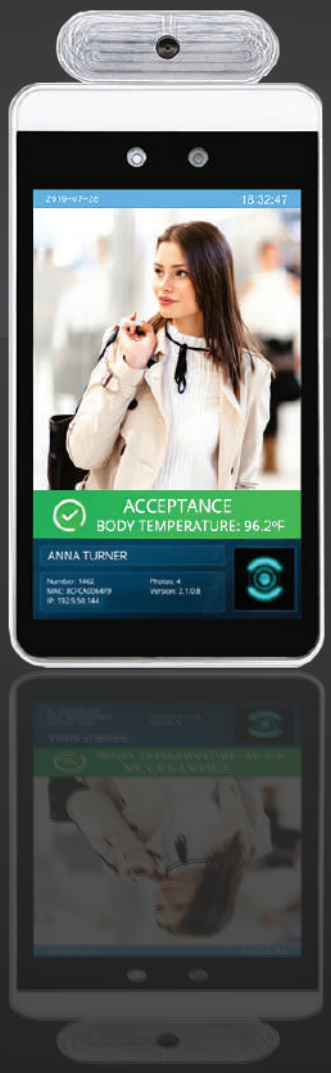
IRCam Pro

by Energy Optimizers, USA



IRCam Pro

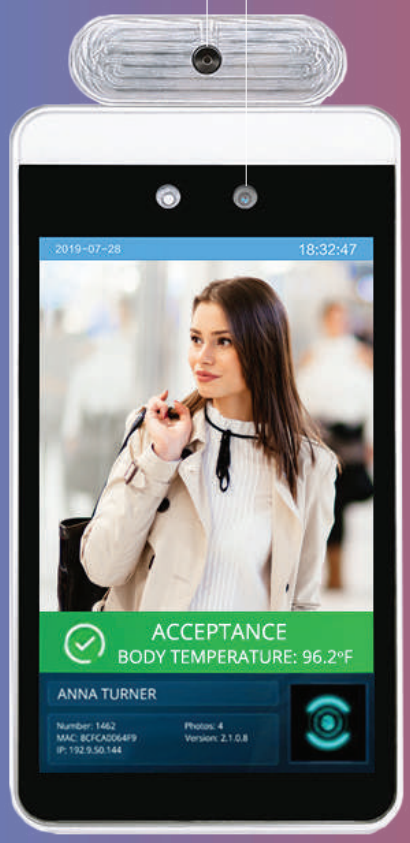
Facial Recognition

Infrared Thermal Scanner

IRCam Pro
Product Specifications

Thermal Imaging
Heimann Sensor GmbH
Infrared Thermopile Array
90° FOV, Accuracy: +/- 0.1°C

Face Camera
2 Million Pixels
F1.6 Large Aperture
Dual Camera



Processor
MSM8953 Octa-Core*
AI-Deep Learning
Memory: EMMC 8G

Display
8-inch, IPS LCD
Resolution: 800 x 1280

Database
1 Million Records
30,000 Cases

Measurement
Non-contact
60-100 cm Distance

Protection
Operation: 14°F - 140°F
Ingress: IP65 Rated

Body
IP65, Waterproof
9.4 x 5.0 x 1.0 inch
3.19 lbs

IRCam Pro, a facial recognition-based thermal scanner combines AI technology with infrared thermal imaging technology—a high precision body temperature measurement technology for continuous, contactless, non-invasive, and accurate temperature monitoring. The dual 2MP cameras with f/1.6 super-large aperture and automatic white balance provide rich detail even in low-light conditions. The state-of-the-art Heimann infrared sensor delivers precise real-time temperature measurements while detecting people with abnormal temperatures with an accuracy typically lower than ±0.4°F.

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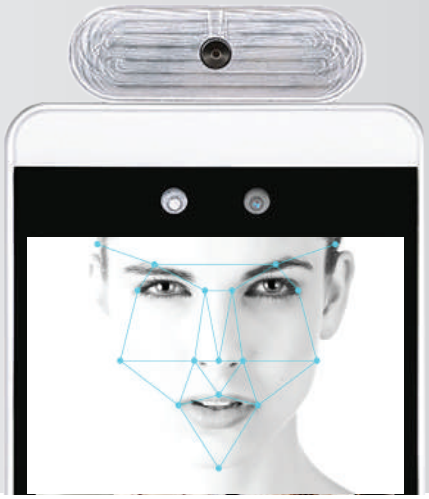
AI-based realtime facial identification

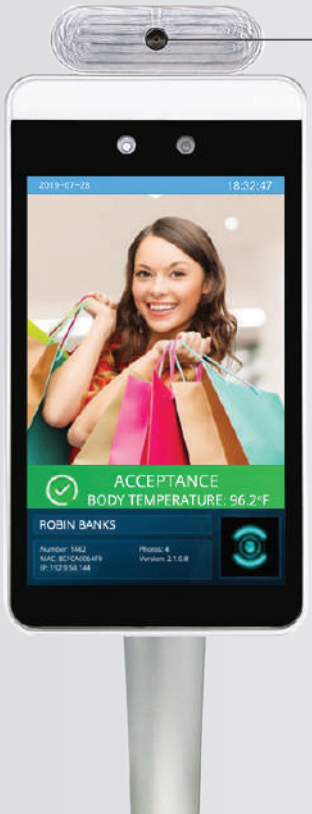
The powerfully efficient MSM8953 Octa-Core processor* enables dynamic tracking and real-time facial recognition on IRCam Pro devices, supporting both 1:1 and 1:N identification achieve a hit rate of 99%.



A camera with intelligence.

Smart camera with HDR

A unique algorithm that integrates AI and deep learning to enable simultaneous multiple face recognition in different angles and lighting conditions.



Thermal Imaging Module

The infrared thermopile array sensors developed and produced by Heimann Sensors GmbH, provide precise real-time temperature measurements in the range of 50°F - 107.6°F with an accuracy lower than ±0.4°F. The sensor has a 90° field of view and provides highly reliable measurements even in harsh environmental conditions.

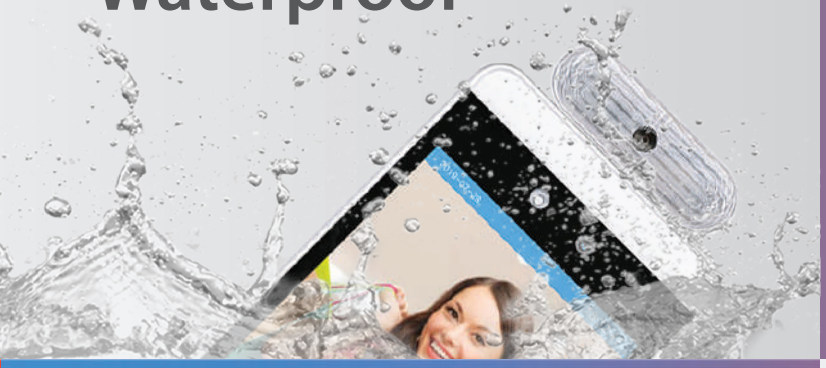
Unlimited flexibility

The Flexible mounting system mounts IRCam Pro both on walls and access control doors, eliminating clutter from the service area.

Database of 1 million face identification records

The device can store a million face identification records and 30,000 cases, enabling face recognition in real-time by comparing the faces detected on the video stream with the existing database.

IP65 Waterproof



Access control with voice broadcast

IRCam Pro can perform fever screening with voice broadcast and is ideal for preliminary screening in border checkpoints, transportation hubs, retail and educational institutions.

Contactless thermal measurement.

Detects the body temperature by accurately locating the forehead area and supports non-contact temperature measurement at a distance of 1 to 3.2 ft.

Specifications

Camera	Pixel	2M pixels
	Type	Dual cameras with high dynamic range
	Focus	50-150cm
	White balance	Automatic
Screen	Size	8.0-inch IPS LCD
	Resolution	800×1280
Processor	CPU*	RK3288 Quad core/RK3399 Hexa core/MSM8953 Octa core
	Local storage	EMMC 8G
Lighting	Source	LED & IR light
Interface	Network module	Ethernet/ Wireless（WIFI）
	Audio	2.5W/4R speakers
	USB ports	USB OTG, USB HOST
	Serial Communication Port	RS232
	Relay output	1 Relay port for door control
	Wiegand	1 Wiegand 26/34 output; 1 Wiegand 26/34 input
	Upgrade button	Uboot
	Wired Network Interface	RJ45 Ethernet socket
Facial Recognition Module	Facial data bank	Up to 30,000 cases
	Stranger detection	Yes
	Facial adjustment	Yes
	Remote & cloud update	Yes
Infrared Thermal Imaging Module	Body temperature measurement	Yes
	Temperature detection distance	1 ft - 3.2 ft
	Accuracy	≤ ±0.4 °F
	Detection range	50 °F - 107.6 °F
	Sensor	Heimann Sensor, 90° FOV
	Model	HTPA 32x32d
	Type	Infrared Thermopile Array sensor
	Access control	Yes
	Alarm function	Yes
Body	Protection Class	IP65 rated, semi-outdoor use; dust-tight; waterproof
	Battery	DC12V（±10%）
	Operational temperature	14 °F - 140 °F
	Power consumption	13.5W（Max）
	Mounting	Wall & desk mount
	Dimensions	9.4 x 5.0 x 1.0 inch
	Weight	3.19 lbs.

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