

InMetrics K16 Temperature Reading Solutions



The Right Solution Partner

Table of Contents

Covid-19 & Business	2
Temperature Readings -How it Protects Your Business.....	3
Remote Calibrations.....	4
More Than Just a Temp Scanner	4
Supporting Social Distancing	4
Benefits of Non-Contact Devices.....	4
Temperature Readings	5
How K16 Assists	5
Key Features	6
Best in Class	7
Real Time Data Solutions	7
At a Glance	8
Recap – What K16 Can Do	9
Recap.....	10
Who We Are	11
Contact Us	11

InMetrics K16 & Covid-19

Covid-19 & Business



As businesses across the USA reopen during the grip of a global pandemic, keeping customers and employees safe has become top priority for companies. Critical tools such as the InMetrics K16 temperature reader has become a critical tool in keeping work environments safe. This is done by quickly detecting whether someone has a fever. The stand-alone K16 kiosk is in line with the recommended social distancing rules and delivers accurate temperature measurement from a safe distance. There is no need to request customers to remove masks, glasses, protective face gear or hats. The 3D thermal imaging camera and computer detect a face automatically and displays the relevant body temperature. Visual and/or audible alerts notify staff immediately if someone is warmer or cooler than the preset temperature. Immediate results mean that people are able to move quickly through entry points, lobbies, or other vital locations.

Benefits of Non-Contact

Temperature measurement can be one part of the assessment to determine if a person has an elevated temperature potentially caused by a COVID-19 infection. One method to measure a person's surface temperature is the use of "no-touch" or non-contact temperature assessment devices, such as thermal imaging systems (also known as thermal imaging cameras or infrared telethermographic systems) or non-contact infrared thermometers. The use of other temperature assessment devices, such as oral thermometers, requires physical contact which may increase the risk of spreading infection.

- Non-contact devices can quickly measure and display a temperature reading so a large number of people can be evaluated individually at points of entry.
- Non-contact infrared thermometers require minimal cleaning between uses.
- Using non-contact temperature measurement devices may help reduce the risk of spreading COVID-19 infections.

Temperature reading is effective in preventing the spread of Covid-19 in at least 50% of cases.

How it Protects Your Business

An elevated temperature is one way to identify a person who may have Covid-19 or another infection. Although persons may be infected without an elevated temp, temperature control has become a popular first line defense against the spread of infection. Thermal imaging systems and non-contact infrared thermometers or non-contact temperature assessment devices are used to measure a person's initial temperature on entry and / or exit from premises.

InMetrics K16

Remote Calibration



An infrared thermal camera and integrated display computer are calibrated to remotely measure the forehead and face surface temperatures. A 50-point scan, captured in under one second, is used to compute the 'core' body temperature to an accuracy of 0.3°F.

More Than Just a Temp Scanner



The K16 is more than just an automated body temperature scanner, with an embedded computer and API, it offers facial recognition, access control, logging, and reporting and supports third-party artificial intelligence (AI) software, Building Management protocols, and security systems

Supporting Social Distancing



The K16 kiosk supports social distancing by delivering an accurate forehead temperature measurement from a safe distance of up to 5 feet. There is no need to remove a mask, glasses, or hat. In less than a second, the 3D thermal imaging camera and computer automatically a body temperature.

Temperature Readings

As states and various communities institute plans to reopen during the Covid-19 pandemic, non-contact temperature assessment equipment is becoming increasingly popular as a first line defense against the virus. Initial checks at entry points allow companies to identify and triage people who display elevated temperatures. Although temperature assessment may not be completely effective against Covid-19, as a first line defense, at least 50% of potentially infected people can be detected.

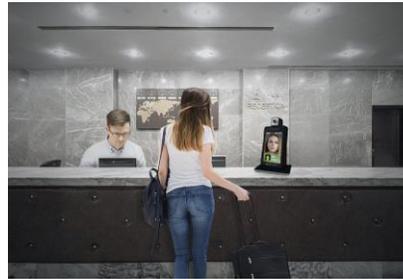
How K16 Assists

With best in breed hardware and industry-leading functionalities, the K16 temperature reading kiosk is able to help you protect your customers and employees with instantaneous temperature scanning. An advanced infrared camera featuring industry-leading high resolution 160x120 and 50Hz frame rate, the InMetrics K16 is able to offer instant reading and keep the traffic moving.

The hands-free K16 is ideal for public transportation (airports and train stations), stadiums and event centers, retail stores,

Overview of Programs

Key Features



- Industry-leading, advanced 3D infrared image sensor
- 50 face measurements per second offer accuracy within +/- 0.3°F (0.167°C)
- AI algorithm estimates 'core' body temperature
- Contactless with measurement distance from 2.5 to 5 feet
- Temperature scan and result under 1 second, handles a high volume of people
- Self-calibrating, no need for a black background
- No need to remove facemask or hat
- Customizable temperature thresholds with instant "Proceed / Wait" indication and verbal feedback
- Flexible installation for various building entryways, gates, and doorways
- Full API supports integration with 3rd party applications
- Supports facial recognition for logging and access control
- Ethernet, Wi-Fi, LTE (optional), and serial ports support integration into large security systems

Best in Class

With and ARM Cortex-A53 Octa-core, 1.8 GHz processor, 10.1” touchscreen (HD1280x800), built-in 3D camera and built-in Wi-Fi the InMetrics K16 is best in breed technology. Built to withstand even the harshest environments, the fanless design handles a wide temperature range (15F to 122F). For customers who require cellular connectivity, the IR611 with Wi-Fi allows you to have your own network and high speed Cat-6 LTE

Real Time Data Solutions

InMetrics Solutions uses real-time data recording sending you automatic email notification on over temperature readings. Customizable temperature thresholds are relayed with instantaneous “proceed / wait” verbal feedback to customers and employees. Screen casting allows employees to monitor those entering your premises from a safe distance, minimizing the risk of Covid-19 contraction. Full Android based API supports function expansion and integration with, cloud back up and 3rd party Building Management Systems offering seamless integration.

At a Glance

		InMetrics K16
Infrared Image Sensor	Infrared Pixels	160*120
	Detection Distance	0.75m-1.5m (2.5~5ft)
	Angle of View	6.5mm(36°x28°)
	Angular Resolution	3.8mrad
	Frame Rate	50Hz
	Measuring Range	20°C ~ 45°C / 68°F ~ 113°F
	Accuracy	± 0.5°C / 0.9°F (After on-site calibration: ±0.3°C / 0.5°F)
	Thermal Sensitivity	<80mK
Image Sensor	Camera	3D Camera x 1
Processor	CPU	Qualcomm Octa-core processor, 1.8 GHz
	Memory & Flash	2GB LPDDR3 RAM; 16 GB eMMC
	Display	10.1 inch (1280*800)
Software	OS	Android 7.1
Interface	USB	Type A, USB2.0 x1
	Wi-Fi	802.11b/g/n, external antenna
	Cellular	Optional: 4G LTE
	Relay	Ultimate load 30V,1A,30W
	Power	DC input-12 V DC
Physical	Dimensions	43.9cm*25.7cm*19.4cm, IP40
Environment	Temperature	Operating: 15°F to 122°F, for indoor only
Installation		Desk Stand, Wall Mount, Floor Stand and customized mounting

Recap

What the K16 Can Do

- Face mask detection & advanced AI facial recognition capabilities
- Supports walk-by mode to scan multiple people at a time in rapid succession
- Making interruptions to normal activities minimal
- Available with desktop, floor stand, and wall mounting options
- Ideal for offices, factories, hotels, movie theatres, super markets and more
- Real-time Infrared Image and reading multiple people at a time
- Forehead temp. measurement, no need to remove face-mask or hat
- Advanced infrared image sensor, accuracy $\leq 0.9^{\circ}\text{F}$ (0.5°F after on-site calibration)
- Auto calibrating with no special background, backdrop, or thermal constant needed for calibration
- Real-time data recording, automatic email notification on over-temperature
- Customizable temp. thresholds, instant “Proceed / Wait” indication and verbal feedback
- Screen Casting to another computer, let your employees monitor from a distance
- Full API supports integration with 3rd party Building Management System
- Out of the box with no IT integration required
- Standard desktop stand with easily adjustable screen (max. 90°) for various onsite scenarios
- Digital relay output, connect to alarm, beacon, or other onsite
- With the AI advanced face mask detection feature, can recognize people that are wearing masks and still provide an accurate reading
- Facial recognition without any objects interruption
- Reduce the possibility of cross infection

Who we are

Exxcell Solutions continues to supply powerful yet flexible technology suitable for your business in the fight against Covid-19. InMetrics K16 keeps in line with Federal, State and Local regulations and guidance to ensure our customers conform to their industry's best practices. The development and implementation of these practices include social distancing, sanitation, disinfection of high-traffic areas and temperature checks. In order to monitor your workforce, customers and workplace visitors accurately, quickly and reliably best in breed technology should be employed.

Contact Us

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