# Protect Your Office Buildings, Schools and Manufacturing Facilities

*FeverWarn...* Your First Line of Defense Against Viral Spread

**FACT:** The Centers for Disease Control and Prevention (CDC) has recommended that schools and businesses not only protect their students/employees but also <u>monitor employee health regularly</u>. Legal experts assert that entities that fail to maintain minimum standards, including health monitoring and screening, could later be subject to liability or workman's compensation issues if teachers, students, service employees and visitors contract the virus.
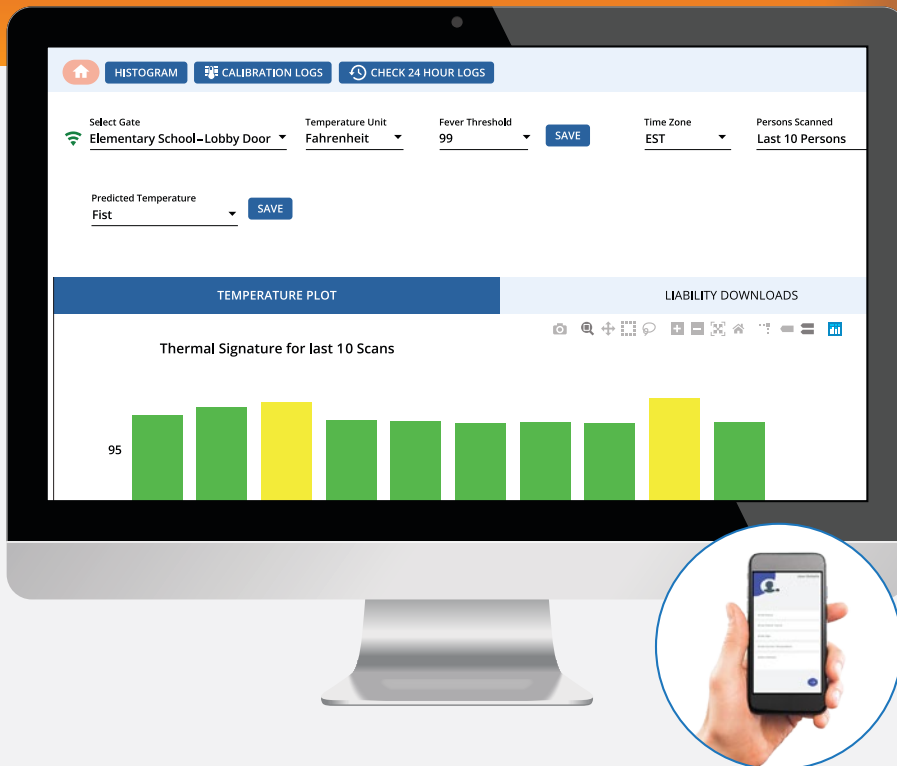
**FeverWarn** by MachineSense®

*FeverWARN...*

## The Most Advanced, Non-invasive, Socially–distanced, FDA Compliant Temperature Scanning Device

- ✓ **Accuracy to +/-0.9°F  +/-0.5°C**
- ✓ **Self-servicing–no human intervention required**
- ✓ **Data reporting to protect against future liability**
- ✓ **Auxiliary USB ports for card readers, doors, and gates**
- ✓ **Priced thousands less than thermal imaging cameras**

**A fever is the most common coronavirus symptom, affecting *up to 88 percent* of those who have the ailment.**

This telling symptom of possible virus infection can be easily monitored with FeverWarn by conducting pre-entry temperature scanning to alert potentially sick employees or visitors and keep them from exposing others.

| 🏠 | HISTOGRAM | 📇 CALIBRATION LOGS | 🕐 CHECK 24 HOUR LOGS |

Select Gate
📶 Elementary School–Lobby Door ▾

Temperature Unit
Fahrenheit ▾

Fever Threshold
99 ▾

SAVE

Time Zone
EST ▾

Persons Scanned
Last 10 Persons

Predicted Temperature
Fist ▾    SAVE

| TEMPERATURE PLOT | LIABILITY DOWNLOADS |

Thermal Signature for last 10 Scans

95

**FeverWarn's advanced infrared temperature screening system offers much more than temperature scanning.**

FeverWarn's reporting software is your future expert witness, providing compliance reports to help you avoid liability issues.

**The system also easily integrates with auxiliary devices such as automatic doors, gates, and employee attendance systems.**

*FeverWarn...*
## The **FIRST** Line of Defense Against Viral Spread

*Why is FeverWarn So Important?*
## Accuracy. Reliability. Safety

- ✓ **First Line of Defense** when inside the building

- ✓ **Accurate** infrared measurement (±0.3°F/C) that is FDA compliant

- ✓ **Non-contact** self-service temperature scanning

- ✓ **Provides outputs** for triggering auxiliary doors or gates if needed

- ✓ **Offers data compliance** for legal protection

- ✓ **Developed and manufactured in the USA** for quick delivery/ *FREE* shipping

- ✓ **Easy and flexible installation** set up and operation

- ✓ **Immediate alerts** help organizations make informed decisions

**FeverWarn**
by MachineSense®

*COMPARE with Other Options...*
# Temperature Scanning Devices


Too Close





## $
## Forehead Thermal Scanner

Most Infrared forehead temperature guns, although accurate and affordable, require human interaction and do not allow for proper social distancing. Sun, makeup, and varying heights also add to the difficulties of measuring the temperature from the forehead.

**Good**

✅ **Uses same infrared technology as FeverWarn. Compromised by forehead perspiration, hair, makeup and head coverings not found on wrist measurements**

🔄 **Accuracy depends on perspiration, makeup, hair and positioning distance Head covering would need to be removed**

**Bad**

❌ **Human intervention required**

❌ **No data outputs for provable future compliance defense**

❌ **No data outputs for auxiliary devices**

## $$
## FeverWarn Infrared Fist Artery Thermal Scanner

FeverWarn uses the same infrared sensors as other thermal scanners, but has been specifically designed for fist/wrist artery temperature scanning, which is not subject to high perspiration, significant hair, head coverings or make-up.

**Good**

✅ **Consistent accuracy not compromised by forehead perspiration, make-up, hair and head coverings**

✅ **Offers either local or cloud data storage to preserve compliance with monitoring guidelines**

✅ **No additional intervention or supervision required as with handheld temperature guns**

✅ **Offers output signals for doors and gates as well as integration with employee card systems**

✅ **Convenient stands and shrouds available to assist installation**

## $$$$
## Camera Based Thermal Scanner

Thermal scanning cameras, while accurate, are expensive, and in some cases where facial recognition is used can cause privacy concerns.

**Good**

✅ **No human intervention required**

✅ **Some models provide data outputs for future compliance defense**

✅ **Some models provide data outputs for auxiliary devices**

✅ **Most use similar infrared sensor principle as FeverWarn**

🔄 **Accuracy depends on exposure to UV sunlight, makeup, facial coverings and distance and resolution of camera**

🔄 **Not recommended for crowd scanning unless very high resolution camera, should primarily be used for individual scanning as with FeverWarn.**

**Bad**

❌ **Typically require separately sold computer interface not included**

❌ **Privacy concerns**

## How FeverWarn Works
# Breakthrough Technology
### It's All In The Fist

The wrist and fist areas are ideal for infrared scanning because the arterial blood flow is close to the skin. Generally this area does not have scanning complications of other IR technologies like forehead scans where perspiration, hair, or make-up can interfere.

### FeverWarn is a self-service scanning with reliable results in one second or less!

Simply place your fist under the scanner (1-4 inches away), and you'll get either a red or green light indicator (note: the 230- model provides an voice activated announcement in addition to the light signal)

### The Science of Fist-Forward Temperature Monitoring

University studies report the fist/wrist as one of the most reliable areas for temperature scanning Many people are familiar with infrared (IR) skin temperature devices being used to monitor forehead skin temperature. But due to different heights, heavy perspiration of the forehead area, hair, makeup, and other facial coverings, the readings can be compromised and often require secondary scans. In fact, infrared skin temperature can be taken in many places on the human body, especially those regions where arterial blood flow is present. Still, some areas, including the fist, are best to correlate with mean body temperature (MBT), which is used to measure fever. Another reason the fist/wrist area was selected as an optimal temperature monitoring is because people can easily manipulate their arm/hand and scan themselves. In contrast, people of different heights would require multiple scanners to achieve the same results with a forehead scanner. Besides, research and even warnings by manufacturers of forehead scanners have established that their readings can be compromised by forehead perspiration, makeup, hair, and other coverings. Longer range thermal infrared imaging systems are also available on the market. Still, they are expensive, and a high-resolution camera is necessary to direct the image to the correct facial areas. **Also, infrared imaging cannot be used outdoors due to the interference of the sunlight's infared rays which, will impact the results.**

Fist vs. Forehead Temperature Correlation

98.5
98
97.5
97
96.5
96
95.5
°F

Forehead temperature scan      FeverWarn fist scan

## Formula for a Safe Environment

**Entrance Temperature Scanning**  +  **Wearing Face Masks**  +  **Social Distancing**  =  **A Much SAFER Environment**

# FAQs

### WHY do we need temperature scanning at our facilities?

Temperature Scanning, or Thermal Scanning has been recognized as a key indicator of early warning of virus infection. Having thermal scanning devices inside the entrance/exits of your school, office, manufacturing plant provides a level of protection and comfort in knowing that anyone whose reading indicates a higher than normal temperature will not be allowed to further enter the building.

### Are there specific guidelines for re-opening facilities that include some type of temperature monitoring as a first-line defense?

The CDC has provided general guidelines to the Department of Education, Businesses and Retail environments that includes a recommendation to integrate temperature monitoring as part of an overall virus prevention strategy. As a first line of protection, and in concert with other safety precautions such as wearing masks and social distancing, thermal scanning should be strongly considered in any precaution planning.

### How Does FeverWarn compare with other current temperature monitoring devices?

There are multiple benefits the FeverWarn application has over two other current approaches. Unlike hand-held scanner that require a person to stand there all day and take readings, FeverWarn uses the fist as the key indicator for temperature readings. Studies have shown that this is the most stable and accurate part of the body for this type of scanning. Hand-held scanners to the forehead have several issues that can affect an accurate reading. Perspiration, hair in the way, proper social distancing, and even make-up can negatively influence an accurate reading.

The other scanner is a fixed position scanner that requires the person to stand up taller, squat down lower to get in the range of the scan, and then hold that position for several seconds until it registers. This scanner also has to take into account the same issues as the hand-held scanner in regards to perspiration, hair in the way, social distancing and make-up.

# Protect Your Tenants, Service Employees, and Visitors

One of your most valuable assets are your employees, teachers, students and visitors. Knowing they are coming to work in an environment that is as safe as possible takes away stress. It builds confidence allowing them to perform their jobs in safer surroundings without health-concern distractions. Visitors will also appreciate the precautions taken to ensure that safety-first is a large part of your stand against viral spread.

FeverWarn can be installed in front lobbies, security checkpoints, inside manufacturing entrances, school entrances and any other place where the initial entranceway is your first line of defense.

*Find Out More About FeverWarn*

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