

# HONEYWELL THERMOREBELLION™ FEVER DETECTION

Advanced Infrared Non-Invasive Thermal Fever Detection



**Honeywell**



# THERMAL SCANNING FOR FEVER DETECTION IN ACCESS CONTROL SYSTEMS

In order to protect individuals and the wider population against the threat of dangerous viruses, effective screening of potential carriers is key. Our advanced thermal imaging system quickly and effectively scans people, and advanced algorithms recognize fever symptoms so that effective protection processes can be implemented.

## CHOOSE HONEYWELL THERMOREBELLION™ TO DELIVER FAST, EFFECTIVE THERMAL SCANNING OF EMPLOYEES AND CUSTOMERS

Honeywell ThermoRebellion™ imaging systems bring a decade of experience in the most advanced hyperspectral imaging technologies for gas leak detection, fire detection and intrusion monitoring applications.

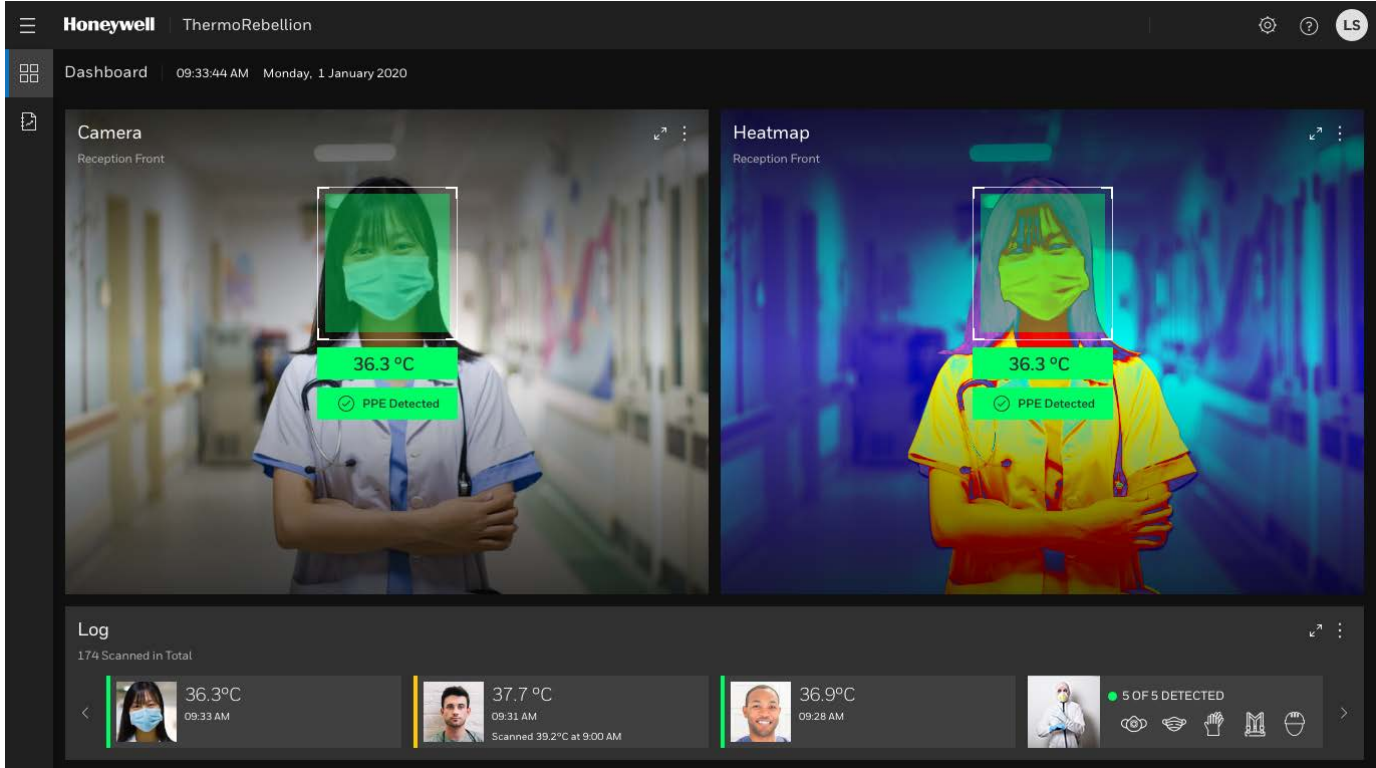
Now this expertise has been extended into the area of temperature scanning, in order to more effectively join the fight against the threat of out-of-control viruses. These threats are not new, are likely to occur again, and we need innovative solutions to address that threat.

Help protect your workforce and any visitors by deploying the Honeywell ThermoRebellion™ system to triage individuals. In conjunction with secondary screening methods, the solution supports continued effective and safe business operations.

## HONEYWELL THERMOREBELLION™ ADVANCED THERMAL SCANNING

Honeywell delivers the future now. This fast, effective triage system contains a thermal scanner that can detect the rise in facial surface temperature and use advanced algorithms to predict core body temperature. Once identified, individuals can then undergo a secondary diagnosis method to confirm the presence of a fever.





Honeywell ThermoRebellion™ assesses core body temperature using a combination of visual and infrared imaging technology and advanced algorithms to provide non-invasive, real-time monitoring of people passing through an access point. This information is then analyzed to reliably identify individuals who may exhibit a fever, alerts the operator to deploy a secondary evaluation method, and thus better protects occupants of the facility against infection.

Typical solutions include requesting personnel to self-declare symptoms associated with diseases or involve manual temperature measurement of any person entering a facility using a hand-held instrument. While this provides a degree of confidence that individuals with a temperature are being identified and prevented from entering, it requires a dedicated resource to carry out the measurements, and for that person to be in close proximity to the subject, potentially breaching safe distancing guidelines.

The Honeywell ThermoRebellion™ solution is quickly deployed at facility access points, and once operational, the solution provides quick identification of individuals exhibiting an elevated temperature as they pass in front of the camera. The scan is shown visibly on the intuitive graphical user interface together with subject temperature information, which is then logged for easy retrieval for audit purposes. Once identified, a secondary diagnosis process can be administered to individuals who show signs of fever.

## HOW IT WORKS

- A visible camera views and recognizes people in the field of view
- The thermal imaging camera measures the temperature pixel by pixel
- AI recognition and temperature measurement algorithms assess core body temperature
- This temperature measurement is superimposed upon the visible image
- Audible guidance helps users and subjects in order to achieve a fast, effective scan
- Audible and visual alarms are raised if any subject exhibits a core body temperature above the fever threshold

**THE HONEYWELL THERMOREBELLION™ ADVANCED THERMAL TRIAGE SYSTEM MEASURES SKIN TEMPERATURE TO ASSESS CORE BODY TEMPERATURE, HELPING TO PROTECT AGAINST THE SPREAD OF HIGHLY CONTAGIOUS AND DEADLY DISEASES IN COMMERCIAL OPERATIONS**

- Honeywell ThermoRebellion™ automatically detects abnormal facial skin temperature to predict core body temperature and is used at entrance points to a facility, scanning people as they enter. Secondary evaluation methods can then be applied to confirm a fever.
- Advanced software algorithms provide reliability and accuracy in estimating core body temperature.
- Intuitive graphical user interface makes setup, operation and reporting simple.

# HONEYWELL THERMOREBELLION™ THERMAL SCANNING SOLUTIONS

The Honeywell ThermoRebellion™ imaging system features state-of-the-art visible infrared cameras and advanced scanning and detection algorithms. Our comprehensive solution comprises a simple, self-contained system and training and support packages.

With an advanced thermal camera and proprietary detection algorithms, the Honeywell ThermoRebellion™ system can scan individuals in groups for effective screening at a wide range of sites and venues.

- Accurate, non-intrusive body temperature measurement with no contact required
- Reliable, repeatable measurement with automatic compensation self-calibration
- Intuitive and simple GUI and operation and minimal training required
- High-resolution video and snapshot recording with hot spot tracking
- Automatic sound and vision alarms doesn't require an operator to be present
- Settable "fever threshold" with 2 levels
- Uncooled high-resolution FPA IR sensor with each pixel assessed for temperature
- Advanced AI software algorithm enables fast, accurate triaging of skin temperature to help assess core body temperature, identifying individuals eligible for secondary evaluation method
- Quickly and easily deployed with no expert fitters needed
- Wide range of applicable sites and applications
- Complete offering – Camera, integral processing, monitor and tripod stand
- Cart solution – allows for quick and simple deployment



## Regulatory

- NDAA Compliant
- Not FDA approved, however Honeywell will seek FDA approval





## BENEFITS

- Comprehensive triage system is quick and easy to set up and operate from a distance
- No maintenance required - self-calibration
- Cost effective protection of the site, workers and visitors
- Delivers rapid and effective accurate temperature measurement of individual workers and visitors, thereby helping a business to safely continue operations
- Businesses can diligently protect workers and customers, and be seen to do so
- Non-invasive process helps enable continued business operations
- Be prepared to effectively fight the next viral attack, which could be just around the corner

### FAST

- Individuals scanned to immediately identify those who require secondary evaluation methods
- Non-invasive and automatic requiring no operator present
- Automated alarms with 2 fever thresholds
- Audible and textual instructions given to guide people through entrance

### ACCURATE

- Detects abnormal facial skin temperature to assess core body temperature
- Self-compensating with self-calibrating
- Advanced detection algorithms
- Wideband Infrared detection

### EFFECTIVE

- Complete triage system with no additional components required
- Set-up in minutes
- Intuitive and simple graphical user interface
- Automatic data logging
- No maintenance required

# HONEYWELL THERMOREBELLION™

## INDUSTRIES AND APPLICATIONS

The Honeywell ThermoRebellion™ thermal imaging system can be used for a wide range of sites and applications:

- **Transport**
  - Airports
  - Ports
  - Ferries
- **Warehouse/Distribution Centers**
- **Large Retail**
  - Super/Hypermarkets
  - Retail outlets /Malls
- **Large entertainment venues**
- **Large Manufacturing sites**
- **Entertainment venues**
- **Educational establishments**
  - Universities / Colleges
  - Schools
- **Office buildings**



### APPLICATIONS INCLUDE:

- Site worker entrance scanning
- Site visitors scanning as part of access control
- Gateway scanning as multiple persons enter
- Queue scanning—e.g. retail
- Transit scanning — e.g. airport terminals, ferry ports, railway and metro stations
- Entrances gates e.g. sports or event venues

### For more information

[Safety.honeywell.com](http://Safety.honeywell.com)

### Honeywell Gas Analysis and Safety

300 S Tryon St Suite 500, Charlotte, NC 28202

877.841.2840

### Contact Us

US:

Tel: 800.430.5490

Fax: 800.322.1330

Canada:

Tel: 888.212.7233

Fax: 888.667.8477

**THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT**

**Honeywell**