

# **PRODUCT GUIDEBOOK**

## **TURING SHIELD**

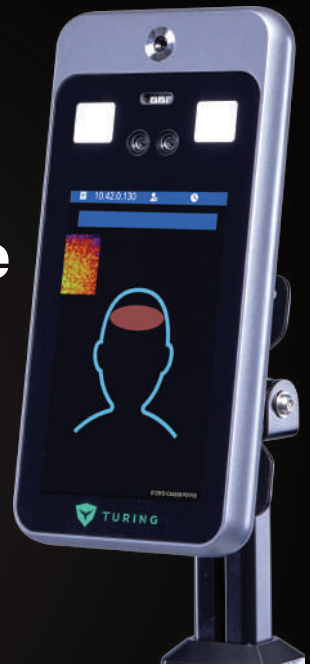
### **Covid-19 Response Solution**





# Reopen Your Business with Confidence

#1 COVID-19 Response Solution with Thermal Scanner - **Safe, Secure and Accurate**  
Supports COVID-19 response protocols  
Protect your business with **Turing Shield**



## Overview

**Turing Shield** is a COVID-19 response solution which combines enterprise-grade AI powered non-contact body temperature thermal scanners with highly secure cloud-based data management platform to help organizations reopen with confidence and peace of mind.

**Turing Shield** supports COVID-19 response protocols and aligns with Centers for Disease Control and Prevention (CDC) guidelines. Turing Shield provides highly secured encrypted data management platform with safe and secure record keeping that will help with employee's worker compensation claims as well as mitigate organizational risk.



### Easy Installation

- Simple Plug and Play Design



### COVID-19 Response Protocol

- Built-in CDC health questionnaire
- Face mask detection
- Temperature screening
- Contact tracing capability



### AI Powered Data Management Platform

- Centralized monitoring of all thermal scanners
- Safe and secure record keeping with optional biometric data
- Real-Time visibility into high temperature readings
- Time Clock Integration



### Access Control

- Modular manufacturing design allows flexible customization
- Supports HID card access, badge printing and many more

## Content

### COVID-19 Response Solution

- Employee/Visitor Walk-through (Access Approved)
- Employee/Visitor Walk-through (Access Denied)
- Admin/Supervisor Walk-through
- Features
- Functionalities
- Data Privacy
- Use Cases

### Hardware Overview

- Features
- Specifications
- Accessories

### Software Overview

- High Temperature Alert Tracking
- Contact Tracing

### Turing Biometrics

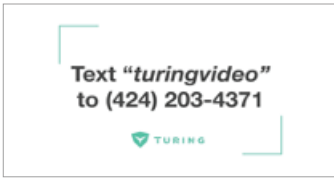
- Features
- Specifications
- Model Performance

### Enterprise Package (Recommended)



# COVID-19 Response Solution

## Employee/Visitor Walk-through (Access **Approved**)



Text Triggered Questionnaire



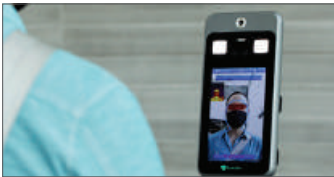
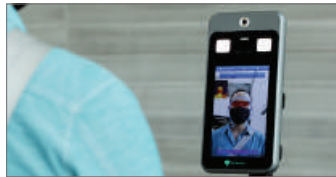
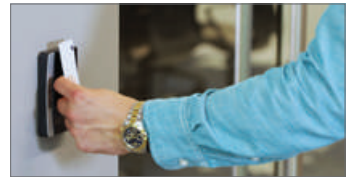
CDC Health Questionnaire



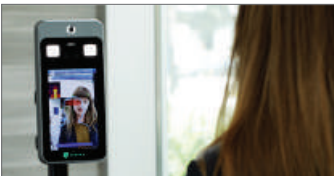
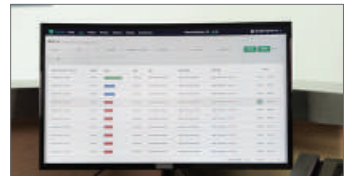
Enter Work Facility



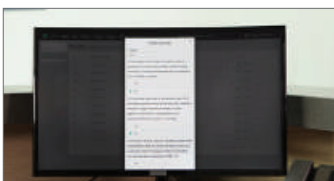
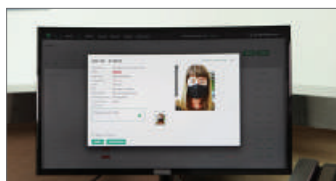
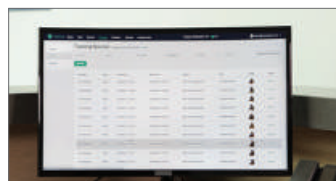
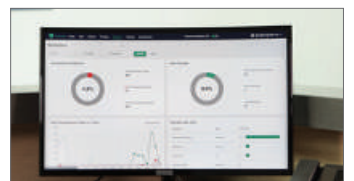
QR Activate/Verify Questionnaire

Face Mask Detection (**Passed**)Temperature Screening (**Passed**)Badge Printing (**Cleared**)HID Reader (**Accessed**)

## Employee/Visitor Walk-through (Access **Denied**)

Face Mask Detection (**Failed**)Temperature Screening (**Failed**)Badge Printing (**Failed**)AI Platform (**High Temp Alert**)

## Admin/Supervisor Walk-through

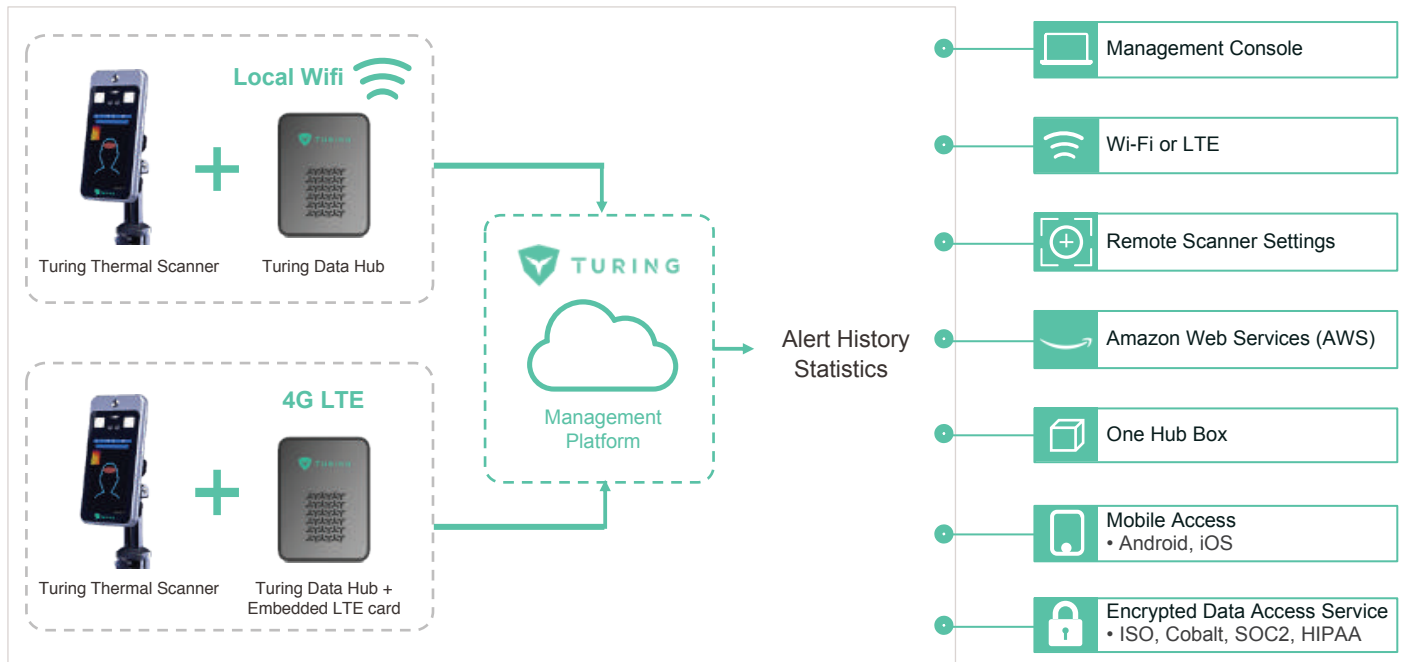
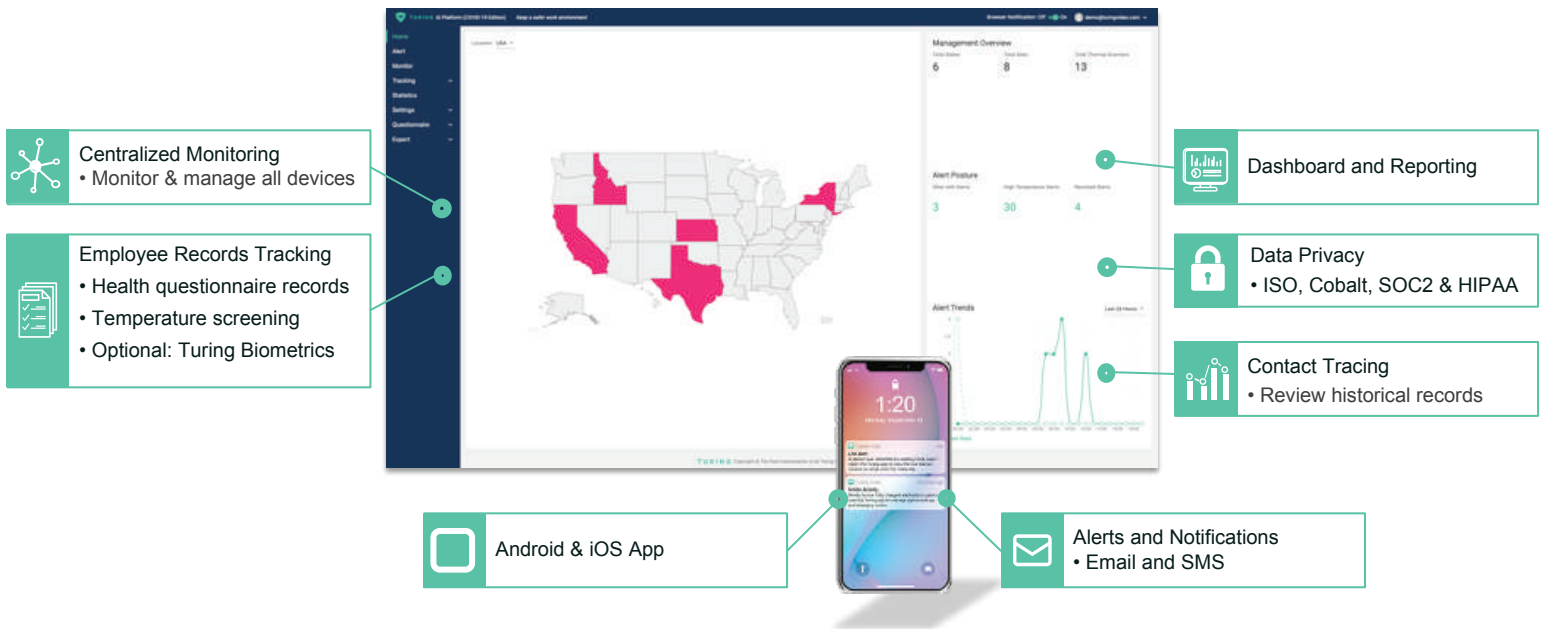
AI Platform  
(Alert/Notification via Email/SMS)AI Platform  
(Review Alert Details)AI Platform  
(Contact Tracing)AI Platform  
(Dashboard Reporting)

## Features

- Customizable Health Questionnaire
- Face Mask Detection
- Temperature screening ( $\pm 0.5^{\circ}\text{F}/\pm 0.3^{\circ}\text{C}$ )
- Access Control  
HID card access, badge printing and many more
- Centralized Monitoring of all Thermal Scanners
- Safe and Secure Record Keeping with configurable Biometric Data
- Real Time Alerts via Email/SMS
- Contact Tracing based on Biometric Data
- Simple and Easy Reporting to support new COVID-19 Legislations

# COVID-19 Response Solution

## Functionalities



## Data Privacy



System is fully encrypted with field-level database encryption and secure HTTPS data transmissions to meet HIPAA data security standards.

# COVID-19 Response Solution

## Use Cases



Bank



Building Lobby



Business Center



Construction



Dentist Office



Franchises



Hotel



Kindergarten



Finance



Office



Hospital



Restaurant



Retail Chain



Retail



School



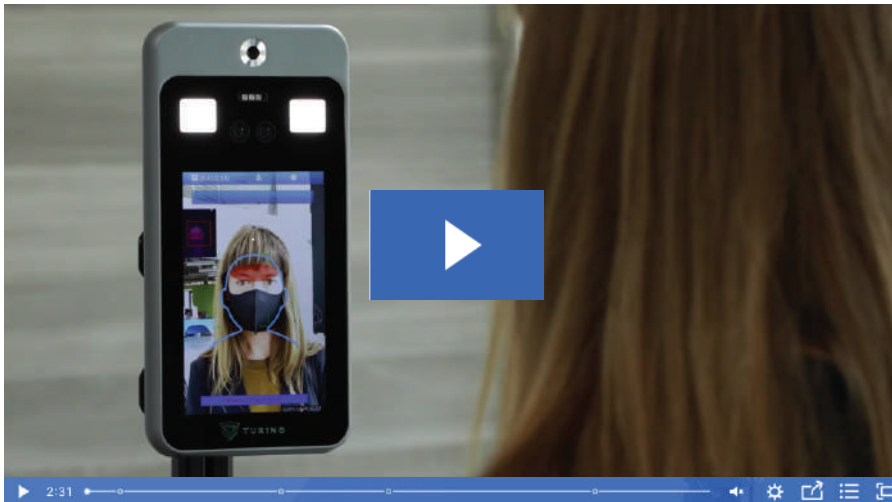
Store



Transport



Warehouse



Trusted by more than **600+ Enterprise Customers**

Including



salesforce

As Seen On

CBS NEWS

abc NEWS

Los Angeles Times



Massachusetts  
Institute of  
Technology



STANFORD

USC University of  
Southern California

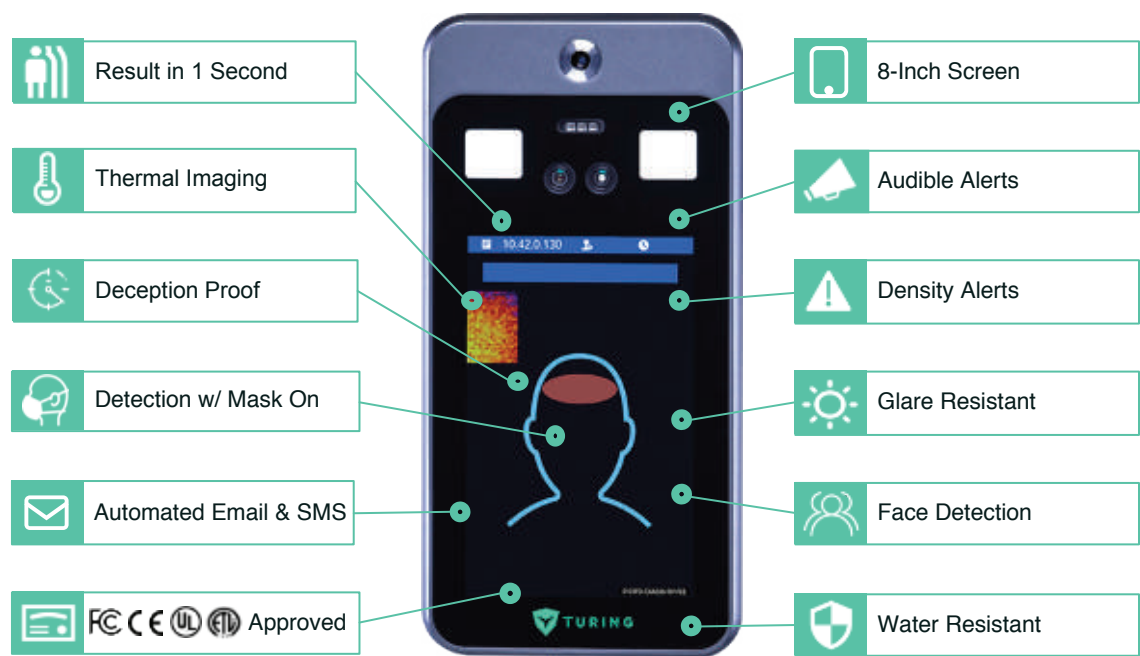


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All specifications are subject to change without notice.  
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# Hardware Overview

## Features



## Specifications



<b>Camera</b>	Dual Lens	<b>Power Supply</b>	12V DC 2A
<b>Lens Aperture</b>	1/2.8	<b>Operating Power</b>	8W
<b>Minimum Lighting</b>	0.01Lux@(F1.2,AGC ON)	<b>Range of Detection</b>	50-104°F (10-40°C)
<b>Display</b>	7-inch HD LCD Screen	<b>Operating Distance</b>	18 inches (0.5m)
<b>Image Enhancing</b>	Adaptive Light Compensation, DNR	<b>Detection Time</b>	less than 100ms
<b>Video Encoding</b>	H.264	<b>Accuracy</b>	±0.3°C (±0.5°F)
<b>Data Rate</b>	1-4 Mbps	<b>Alert Modes</b>	Voice Alert, Text Messages
<b>Resolution</b>	1920 x 1080	<b>Certifications</b>	CE, FCC, IC
<b>Frame Rate</b>	25 Frames per Second	<b>SDK Support</b>	Linux, Windows
<b>Video Setting</b>	Exposure, Gain, Contrast, Saturation	<b>Support Protocols</b>	HTTPS





# Hardware Overview

## Accessories



Stationary Stand



Adjustable Stand



Wall Mount



Base equipped with Turing Data Hub

# Hardware Overview

## Accessories



Integrated Stationary Stand



# Software Overview

## High Temperature Alert Tracking

TURING

Home

Alert

Records

Reports

Welcome, Jonathan!

Alerts

Updated 1 minute ago Refresh

Pending alert

In Process alert

Manually Resolved alert

89

10

3,254

Avg Processing time: 26 mins

Search

All Status

All Alert Type

All State

All Site

All Device

All time

Search

Reset

Created (UTC-7:00) ↓	Alert ID	Status	State	Site	Device Location	Alert type	Device name
2020/03/15, 08:20:34	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:30	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:23	ID Number	IN PROGRESS	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:12	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:03:43	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:02:01	ID Number	AUTO RESOLVED	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:00:34	ID Number	AUTO RESOLVED	California	Site123	Device Location	Debris monitoring	DETAIL DELETE

## Contact Tracing (Powered by Turing Biometrics)

Alert ID: 12345

Pending

Name

Nick

Serial NO.

2222

Site

San Mateo Downtown

Screening Time

2020/09/04,19:36:54

Temperature

99.12°F

Device Name

TS10186

Mask

No

Questionnaire Result

Detail

Body temperature records in past 14 days

99.4

99.2

99.0

98.8

98.6

98.4

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

9-1

Comments\*

Add comments here

Mark as In Process

Submit

Temperature Screening Records

09/03

09/02

09/01

99.12°F

98.12°F

98.12°F

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

Review historical records from thermal scanner temperature readings and security camera footages

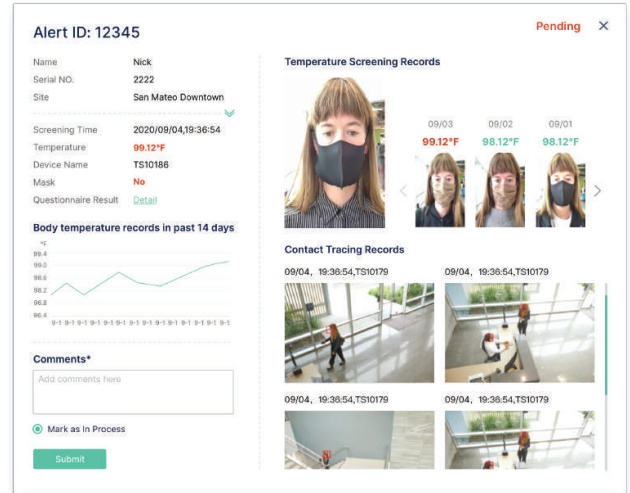
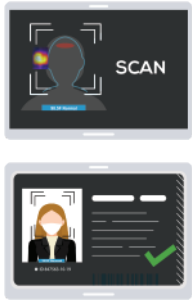
# Turing Biometrics

## Features

Turing Biometrics model is based on state-of-the-art neural network machine learning algorithms. The models were trained over several millions of face images from more than 100,000+ individuals. Our algorithm can accurately locate and identify the identities in the given images.

Turing Biometrics' models can be activated to be used in the following ways:

- Face Mask Detection
- Facial Detection and Recognition
- Contact Tracing



## Specifications

- The minimal size of the face that can be detected should have no less than 40x40 pixels in an with 1920x1080 pixels.
- The minimal image size uploaded for detection and identification is 80x80 pixels
- Supports JPEG and PNG image formats
- The maximum number of faces that can be added for identification is 20 million.

## Model Performance

- The following model performance report is based on testing using random face images
- Test Set 1 (Frontal Face Images) - 1,000 frontal face images that includes background noise
- Test Set 2 (Unconstrained Face Images) - 1,000 online face images that have varied face pose angles

1:1 Matching Results – FNMR at Primary FMR		
FNMR	Test Set 1 (Frontal Face Image)	Test Set 2 (Unconstrained Face Images)
0.10%	10.3%	-
0.01%	18.5%	20.2%

1:N Identification Results – True-Positive Identification Rate (TPIR)		
TPIR Identifications	Test Set 1 (Frontal Face Image)	Test Set 2 (Unconstrained Face Images)
Top 1	89.3%	87.9%
Top 5	91.5%	88.5%

**REFERENCE:**  
FNMR - FALSE NON-MATCH RATE  
FMR: FALSE MATCH RATE

## Enterprise Bundle (Recommended)



### Package Includes:

- 7" Body Temperature Thermal Scanner
- Stationary Floor Stand (*Most Popular*)
- CDC Questionnaire
- AI-powered Data Management Platform (*1-Year Subscription*)
- Turing Biometrics (*1-Year Subscription*)
- Industry-Leading 1-Year Product Warranty

Please reach out to Turing Sales for detail information

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