

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
VoDaVi Technologies



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

Software Overview

High Temperature Alert Tracking
Contact Tracing

Turing Biometrics

Features
Specifications
Model Performance

Enterprise Package

COVID-19 Response Solution

Employee/Visitor Walk-through (Access



Enter Work Facility



Touchscreen Health



Face Mask Detection (Passed)



Temperature Screening



Badge Printing (Cleared)



HID Reader (Accessed)

Employee/Visitor Walk-through (Access Denied)



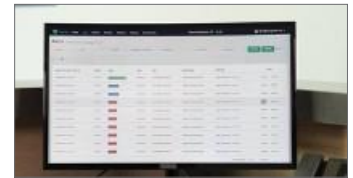
Face Mask Detection (Failed)



Temperature Screening



Badge Printing (Failed)



AI Platform (High Temp)

Admin/Supervisor Walk-through

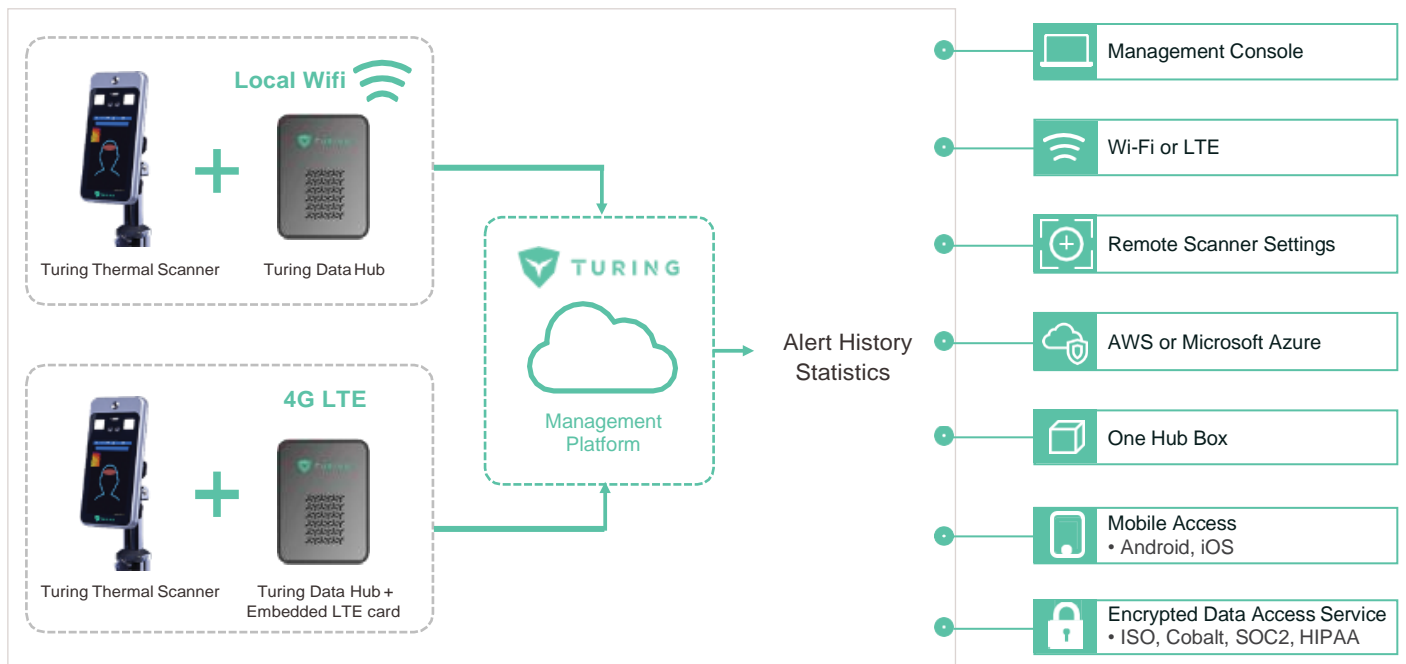
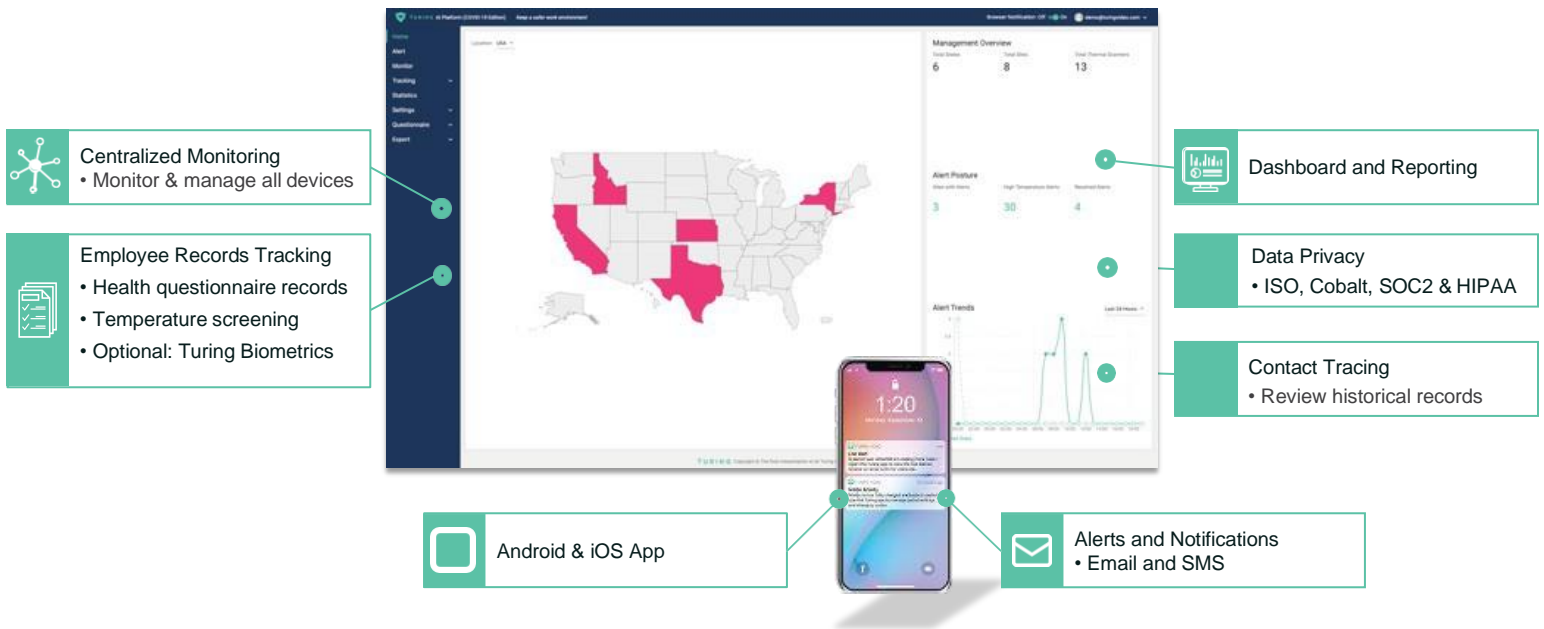
AI Platform
(Alert/Notification via Email/SMS)AI Platform
(Review Alert Details)AI Platform
(Contact Tracing)AI Platform
(Dashboard Reporting)

Features

- Customizable Health Questionnaire (Text-based or Touch Screen)
- 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



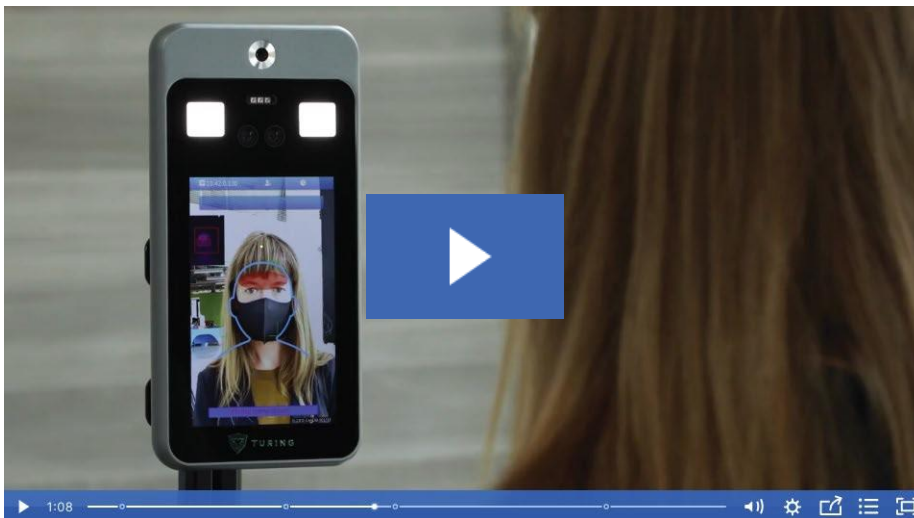
Store



Transport



Warehouse



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

Including



salesforce

As Seen On



Los Angeles Times



Massachusetts
Institute of
Technology

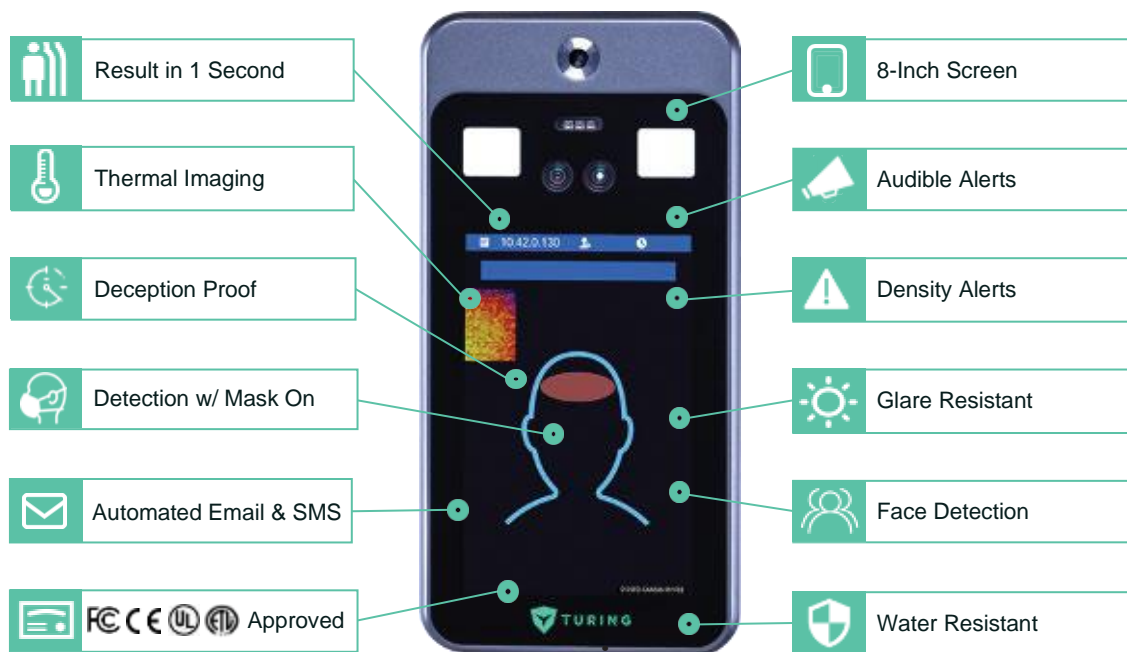


STANFORD

USC University of
Southern California

Hardware Overview

Features



Specifications



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

Hardware Overview

Accessories



Stationary Stand



Adjustable Stand



Wall



Base equipped with Turing Data

Hardware Overview

Accessories



Enterprise Stationary Stand

Software Overview

High Temperature Alert Tracking

- Home
- Alert
- Records
- Reports

Welcome, Jonathan!

Alerts

Updated 1 minute ago [Refresh](#)

Pending alert
89

In Process alert
10

Manually Resolved alert
3,254
Avg Processing time: 26 mins

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)

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

Comments*

Add comments here

☒ Mark as In Process

Submit

Temperature Screening Records

09/03

99.12°F

09/02

98.12°F

09/01

98.12°F

Contact Tracing Records

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

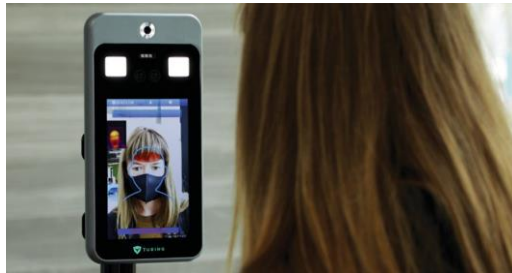
Turing

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



Alert ID: 12345

Name: Nick
Serial NO: 2222
Site: San Mateo Downtown

Screening Time: 2020/09/04,19:36:54
Temperature: 99.12°F
Device Name: TS10196
Mask: No
Questionnaire Result: [Detail](#)

Body temperature records in past 14 days

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

Contact Tracing Records

09/04, 19:36:54, TS10179 09/04, 19:36:54, TS10179

09/04, 19:36:54, TS10179 09/04, 19:36:54, TS10179

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: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%

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 VoDaVi Technologies for detail information

Email: Sales@VoDaViTech.com

Phone: 508.746.5777