

QA-COV-FR/TDS -0319 : Facial Recognition with Thermal and Mask Detection Module for Access Control Terminal & Alarm Notification

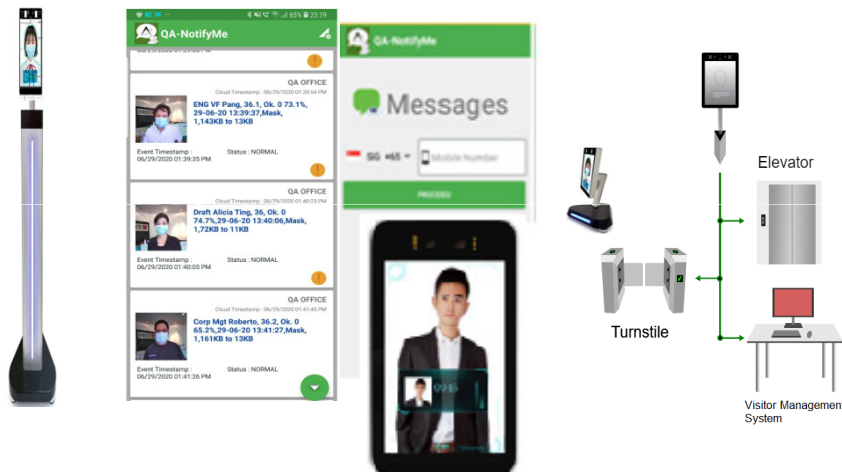
Product Overview

This is a Facial Recognition Reader paired with a Thermal and Optical Bi-spectrum Network Camera for duplex use at entry points

This device adopts deep learning algorithm, which helps to recognize the face faster than a second and more accurate up to 99%+ match ratio.

Its face recognition and thermal detection system can detect elevated skin temperatures brought on by various external causes, such as the Coronavirus, with pinpoint accuracy. This makes the device a non-invasive first step for fever detection at any entry ports. Perfect for adjunct use in hospitals, sub-acute health settings, public areas (i.e. airports), and more.

It supports multiple authentication modes: 1:N face match, etc. When installed on the turnstile, it can be applied in multiple scenarios, such as buildings, businesses, financial industries, and other important areas.



Product Features

- Turnstile Entry Facial Recognition and Temperature scanning management
- Easy to communicate with the third-party turnstile
- Built-in high accuracy thermal infrared module
Body Temperature detection range up to $^{\circ}\text{C} \sim 42^{\circ}\text{C}$, precision $\pm 0.5^{\circ}\text{C}$
- Support real-time display and overlay of human body temperature OSD
- Temperature exception alarm:
High temperature limit, Low temperature limit, Regional temperature exception
- H.265+ / H.265 / H.264 / MJPEG H.265/H.264, 2MP(1920x1080)

ORDERING INFORMATION : QA-COV-FR/TDS -0319 (A/B/C)

Legend: (A) for stand alone application (B) c/w central logs and all features of stand-alone (C) cloud base alarm and central event logs notification

Document Filename & Revision : QA-COV-FR/TDS-0319 ~ Rev0.1f

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Product Technical Specifications :

Features, Parameters		Description of	Description of
Model type QA-COV-FR/TDS-0319		Thermal Detection	With FR and Thermal Detector
Display	Screen Size	8 inch LCD	8 inch LCD
Thermal	Image Sensor type	Far infrared temperature sensor	Far infrared temperature sensor
	Resolution	80x60	80x60
	Temperature Accuracy	±0.5°C (30~42°C), @ 33° FOV	±0.5°C (30~42°C), @ 33° FOV
	Temperature Exception Alarm	High temperature limit, Low temperature limit, Regional temperature exception	High temperature limit, Low temperature limit, Regional temperature exception
Optical	Field of View	118°	118°
	Min. Illumination	0.005Lux FI.2(color) ; 0.001Lux FI.2(D/N)	0.005Lux FI.2(color) ; 0.001Lux FI.2(D/N)
	WDR / S/N Ratio	≥120dB / ≥46dB (AGC OFF)	≥120dB / ≥46dB (AGC OFF)
	White Balance	Auto, indoor, outdoor, sodium lamp mode, manual	Auto, indoor, outdoor, sodium lamp mode, manual
	Day/Night	color/B/W	color/B/W
	Video Compression	H.265 Main Profile / H.264 High profile / M-JPEG	H.265 Main Profile / H.264 High profile / M-JPEG
	Max Resolution	1920x1080@30fps	1920x1080@30fps
	Resolution MainStream	1920x1080、1280x960、1280x720、720x576	1920x1080、1280x960、1280x720、720x576
	Resolution MJPEG	1920x1080、1280x720、shut down	1920x1080、1280x720、shut down
Optical	Character Overlay	Support channel name, date and time overlay, overlay position adjustable; character overlay	Support channel name, date and time overlay, overlay position adjustable; character overlay
AI	Face Capacity		Max. 50,000 face
	Scanning Speed	NA	< 1 second
	Live Detection		support
Port	Power Interface	DC12V	DC12V
	Network	110M/100M Ethernet port (RJ-45)	110M/100M Ethernet port (RJ-45)
	Other Interface	Wiegand X1, Digital interface X1, USB X2	Wiegand X1, Digital interface X1, USB X2
	Speaker	Yes	Yes
Environment	Operating °C	-20°C ~60°C	-20°C ~60°C
	Working RH	0%-90% RH (Non-condensing)	0%-90% RH (Non-condensing)
Power	Power	5W	5W
Size	Size	215 x 125 x 25mm	215 x 125 x 25mm
Weight	Weight	< 1kg	< 1kg

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Product Features, Continued

- Face detection speed:<300ms ; Face Capacity: Max. 50,000 face storage
- Intelligent face analysis algorithm ;
- 8 inch LCD Touch Screen, 2 MP wide-angle dual lens
- Built-in IO output or Wiegand out to QA-iAC744 or QA-iAC6022 or other 3rd party controllers.
- Connects to Wiegand card reader via Wiegand protocol
- face recognition & thermal detection range:0.5-1m

Advance Application :

a) Integration with QA or third party systems -

- Integration with iSMS (Integrated Security Management System) via web-RESTful API.
- Integration with Time Attendance System for automatic Time-In and Time-Out.
- Integration with Turnstile & Lift System which can be interlocked from fever and FR detection and allow user to access the building.
- Integration to VA (Video Analytics System), the respective image template can send to VA if the device detected unwanted person or if fever is detected.
- The device can also be used as normal Facial Recognition Reader which can be used for normal card access system, booking system, meeting room system etc.

b) Special Features -

- Quantum provides mobiles Apps available from both Android and iOS for alert notification for Fever detection, Access violation, Normal Access Event Transaction Monitoring, Blacklisting and notification if triggered, and any other event types that user want to monitor and send alert.
- Temperature Alerts is configurable as per user's threshold preference.
- Support local database for the facial template up to 50,000 users.
- Downloadable QA-NotifyMe Apps for Android for Alert notification, message alert can send to multiple users under multiple options of data subscription. Uses OTP for secured Apps registration.

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