

FFT Series

Face Recognition & Fingerprint Terminal
for Turnstiles and other Pedestrian Access



Powered by SUPREMA's Q-FACE Technology

Embeds SUPREMA Q-FACE PRO face ID sensor, and the unrivaled SUPREMA Q-FACE ENGINE



Fingerprint Sensor by SUPREMA

Includes 6th Generation SUPREMA optical Fingerprint sensor



Includes Neural Processing Unit - NPU

Optimized for artificial intelligence (AI) neural networks, deep learning and machine learning tasks



Implements Artificial Intelligence Algorithms

Offers the highest standards in facial authentication accuracy and matching speed using Artificial Intelligence - AI



Non-stop Pass Through

Accurately and rapidly recognize moving faces in high traffic areas



4.3" LCD Touch Screen

The embedded screen feedback users during and after the validation process, and support local configuration by admin



Detection with Facial Variations

Use dynamic face templates to increase matching performance with faces wearing masks, glasses, hats, beards, different hairstyles, etc



Implements Live Face Detection - LFD

Use LFD Technology to ensure faces detected are alive and real



Detection with Facial Variations

Use dynamic face templates to increase matching performance with faces wearing masks, glasses, hats, beards, different hairstyles, etc



Protected Against Facial Spoofing

Detect fake faces, images, and photos to safeguard against facial spoofing



QR Detection and Decoding

Read and decode QR symbols displayed on mobile devices, for enhanced versatility



Reinforced user privacy and biometric data protection

Implements U.S. NIST FIPS197 validated AES256, ED25519 key exchange algorithm and Secure Element(SE) that stores encryption key to prevent cyber-attacks



2 Operation Modes

As a standalone device with embedded access controller, or as a slave reader connected to an external controller



Embedded Web Server and NIC

For management diagnostics and monitoring



Multi-Card Technology Compatibility

Support MIFARE / DESFIRE / EM / BLE / NFC

Powered by:

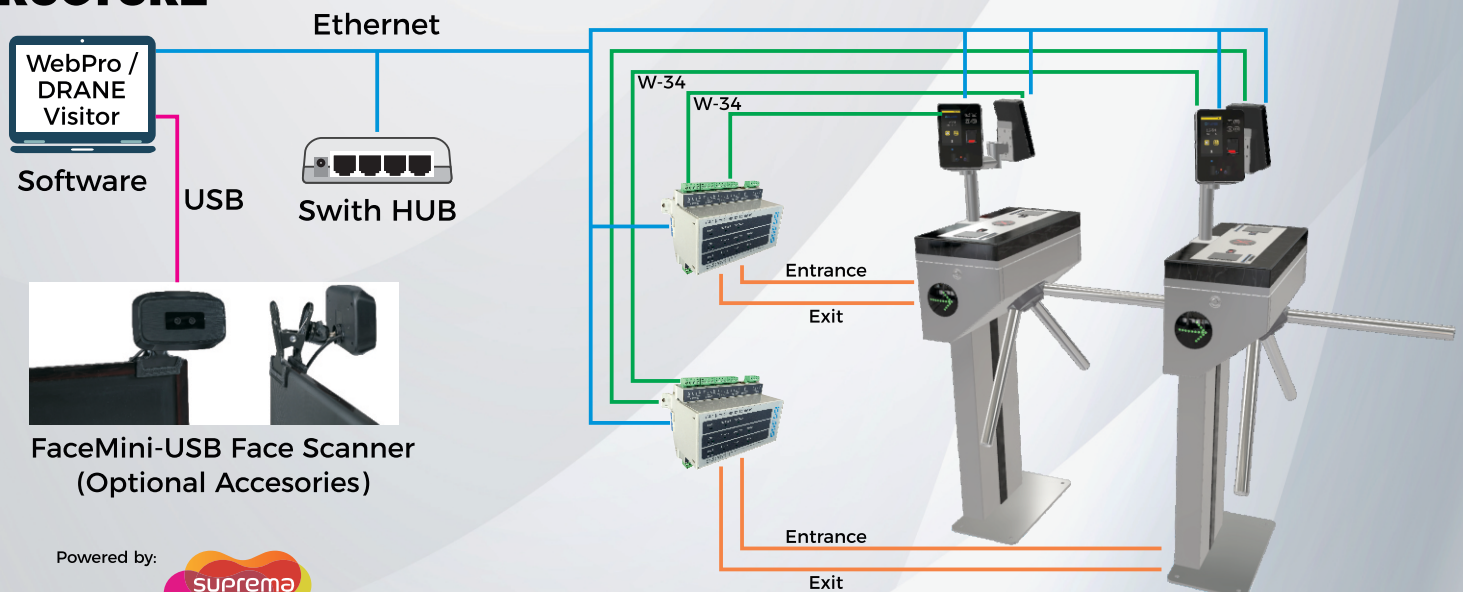


Engineered in USA and manufactured with components made in Korea and other countries.

SPECIFICATIONS

GENERAL DATA		Live Face Detection (Anti-Spoofing)	
Software Application	DRANE WebPro	Face Scan Distance	30cm-1.3m
Dual CPU	ARM M4 32bit 180MHz and Quad-core ARM Cortex-A7 32bit 1.5Ghz, NPU (upto 2TOPS)	COMMUNICATION	
Memory	32 MB SDARM / 8 GB Flash	10/100 Base-T TCP/IP	Static IP/Auto IP (DHCP Client)
Verification Mode	FACE / PIN / Card / FP / BLE / NFC	RS485	Yes
Proximity	EM / Mifare / Desfire / Mobile NFC & BLE	Wiegand	1 channel IN or OUT
Face Capacity	1:N 25,000 / 1:1 100,000	USB	USB 2.0 host
Suprema Fingerprint	9,590	INDICATION DATA & USER INTERFACE	
Card Capacity	100.000	Audible Speaker	16 bits mono
Max. User Capacity	100.000	Camera System	Dual Camera (RGB + IR)
Access Transaction Log	100.000	FOV (Field of View)	Vertical viewing angle of 65°
System Log	10,000	LED	Multi-Color
Snapshot Log	5,000 Images	LCD	4.3 inches touch
Web Base Management	Yes	Capacitive Touch Keys	4
On-Board Reader Support	1 OSDP V1/V2 or 1 Wiegand readers	ELECTRICAL DATA & CONDITIONS	
Accuracy	FRR 1% @ FAR 0.000001% (1/100,000,000)	Operation Voltage	12V DC / 1.5A
1:N Face Recognition Speed	< 450ms (less than 300ms @10,000)	Operation Temperature	0°C -50°C
Access Levels	255 per reader schedule	Operation Humidity	10%-80%RH
(Time Sets/ Time Zones/ Group)	(255/120/255 SET)	PHYSICAL DATA	
Holiday Schedule Set	100	Dimensions	122.5 x 185 x 75.3 mm
Inputs	3 inputs, Exit Button/ Door Sensor/ Fire Alarm	Weight	595 g
Outputs	2 relays, 30VDC 2A, Form C with dry contacts: Door Lock relay x 1, Event Alarm relay x 1	Installation	Indoor
Tamper	Yes	INTERNATIONAL STANDARDS & WARRANTY	
		CE, FCC, ROHS	Yes
		Warranty	1 Year

STRUCTURE



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