

Technical Specifications

Biometric Access Control and Time Attendance Device - COSEC ARG0 FACE300E



System	
Operating System	Linux

Credentials Supported	
Face	Yes
RF Option	EM Proximity Card
Mobile (BLE)	Yes
QR	Yes
PIN	Yes

Face Recognition	
Algorithm	Matrix Deep Learning-based
Face Recognition Distance	0.3 to 2 m
Face Recognition Height	1.2 to 2.2 m
Vertical Field of View (VFOV)	90°

Horizontal Field of View (HFOV)	49°
Image Capturing Mode	Smart, Tap & Go, and Freescan
Live Face Detection	Yes (Passive liveness detection with IR and texture analysis for anti-spoofing)
Matching Speed	1:1 < 0.5 sec, 1:N < 1 sec
Lighting Conditions	5 lux - 30,000 lux
Face Recognition Speed	1:1 < 0.5 sec and 1:N < 1 sec
Group Face Recognition	Yes

Capacity	
Max. User	100,000
Face Template Per User	Max. 30 + 10 (Adaptive face templates)
Card Capacity	200,000
Face Capacity	200,000 [Comparison Mode - 1:1 and 1:N]
Event Capacity	1,000,000

General Specifications	
Display	7" IPS LCD Touchscreen
Display Resolution	800 x 1280 pixels
Gorilla Glass	Yes (Type 3)
Dimension (W x H x D)	112 x 230 x 26 mm
CPU	Arm [®] Cortex [®] - A55 quad core, up to 1.1GHz
NPU	3.6eTOPs
RAM	2GB DDR4
Flash Memory	16 GB eMMC
Tamper Detection	Yes
Screen Saver	Yes

Volume Control	Yes
Ingress Protection (IP Rating)	IP66
Impact Protection (IK Rating)	IK06
Certificates	CE, FCC, BIS, RoHS
Humidity	0% to 95% RH (Non-Condensing)
Storage Temperature*	-30°C to 60°C
Operating Temperature*	-20°C to 50°C
Data Encryption (at Rest in device and in Transit)	Yes
TLS Protocol	TLS 1.2

Camera	
RGB Camera	2MP Surveillance Grade, IR Blocked
Infrared Camera	2MP Surveillance Grade, IR Band Pass
Camera Sensors	SONY STARVIS Technology

Communication	
USB	USB 3.0 - Type C
3G/4G/5G/LTE (via USB)	Yes (Using external Dongle)
PoE+	Yes (IEEE 802.3at)
Ethernet	Yes (10/100/1000 Mbps)
Wi-Fi	Yes (802.11 b/g/n) 2.4GHz & 5GHz (Dual Band support)
BLE (v 4.2 and Range Configurator)	Yes

Interface	
Exit Switch	Yes
Door Sense (4 State)	Yes

External Reader Support	Yes (MATRIX and 3rd Party)
Wiegand	Yes (Selectable IN/OUT) IN: 26 Bit format OUT: Configurable
External Reader Feedback	LED, Tamper/Control and Buzzer Control
RS485	Yes (External Reader)
AUX IN (2 State)	Yes
AUX OUT (Relay (NC, COM, NO))	Yes
Audio Out	Speaker (70 dB @ One meter)
Green Led (External Led Connection)	Yes
Red Led (External Led Connection)	Yes
Door Lock Relay (NC, COM, NO)	Yes
Door Lock Power	Yes (Internal PoE+ Power: 12VDC @ 0.5 A Internal Adapter Power 12VDC @ 0.5 A External Power 12VDC @ 2A)

Installation

Wall Mount	Yes
Flush Mount	Yes

Accessories

Adaptor	12V DC at 2A
Mounting Plate	Yes
Drilling Template	Yes
Quick Guide	Yes

***Note:** Due to continuous technology upgradations, product specifications are subject to change without notice.

ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology-driven, and customer-focused organization, is committed to keeping pace with the revolutions in the security and telecom industries.

With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, and IP Video Surveillance, Access Control, and Time-Attendance. These solutions are feature-rich, reliable, and conform to international standards.

Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 4000 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained the trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.



<http://www.MatrixComSec.com>

Head Office

394-GIDC, Makarpura,
Vadodara-390 010,

Ph: (+91) 265-613-7222

E-mail: Inquiry@MatrixComSec.com

Factory

19-GIDC, Waghodia,
Dist. Vadodara-391 760,
India.

Ph: (+91) 265-613-7222

MATRIX COMSEC - North America

2 Wickstead Crt,
Brampton,
Ontario, L6R 1N8.

Ph: +1 408-643-0581 (USA)

Ph: +1 437-266-1005 (Canada)