ARMATURA

Omni Series - Omni20

All Weather Outdoor Multi-tech Smart Standalone Terminal

- Multi-Biometric technology combining palm and face authentication
- IP66 water & dustproof protection rating
- Slim design & form factor for a modern aesthetic design
- Supports 125 kHz and 13.56 MHz frequency credentials





Slim Design & Mounting Options

The devices slim design with its backplate suits most architectural and interior designs. The Omni20 supports multiple mount types to meet most scenarios worldwide. Mounting accessories for speedgates are also available.



IP66 Water & Dustproof Protection Rating Certified IP66 water & dustproof rating ensures the readers can withstand dust, dirt, sand, and are resistant to strong winds and rain.



Advanced Security

Secure communication: OSDP(V2.2) over RS485 communication between the Omni20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection & security.



Supports Multi-Card Types

Supports 125 kHz and 13.56 MHz frequency credentials. Supports various card types including EM, IC Card, HID Prox, HID iCLASS, DESFire and FeliCa.

Multi-Factor Authentication Capability



cards and QR codes. *IC Card, Desfire, HID Prox, iClass, SEOS, etc. *Integrate advanced multiple biometric

Offering credential options of palm, face, physical

authentication methods such as palm and face. *QR code scanning for visitors & employees. *PIN code option.



Video Intercom (Coming Soon) The Omni20 supports video intercom function

Installation Made Easy

suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.

Slim design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. The Omni20 is suited for mullion-mount door installations or any flat surface mounting. Mounting accessories for speedgates are also available.

Modern Aesthetic Design

The build of the Omni20 blends a high quality metal enclosure with a tempered glass panel. The elegant design fits perfectly into any usage scenario and its sleek design brings a practical and reliable experience to users.

Industry-Leading Design and User Experience

The Omni20 provides an improved user experience with a 2.4" high resolution touchscreen screen and intuitive UI design. Using our advanced algorithms, users can get the best verification experience. Palm authentication distance range: 7" - 15.7" (18cm - 40cm) Face authentication distance range: 15.7"- 47.2" (40cm -120cm)



Variable Input Voltage

The device is compatible with 12V input voltages.

Outdoor Rated for Variable Environments



IP66 Weatherproof rating - built to withstand freezing cold winters, heavy rains and dry/hot summers. -20°C to 60°C/ -4°F - 140°F operating temperature enables operation even under the most severe weather conditions.

Unrivaled Palm

and Face Authentication Performance

ARMATURA's Multi-Biometric technology combines palm and face authentication with our unique deep learning algorithm to give users an efficient authentication experience.

Industry-leading combination of visible and NIR infrared authentication technology provides exceptional authentication accuracy and the industry's top-notch anti-spoofing protection.

Touchless Solution for New standards of the Post-pandemic World

The Omni20 meets the needs of the contactless world with features like remote user enrollment, palm, mask detection and face authentication for users with or without masks. Our Palm/ Face/ Card/ QR code authentication technology supports contactless authentication.





This device supports palm/ face tracking, which can more intelligently capture the user's biometrics and avoid the user's biometric from continuing to be compared after verifying. At the same time, the plam/ face AE function enables the device to obtain higher quality images which improves the authentication accuracy.









	ARMATURA	ARMATURA	ARMATURA	
		Dimensions		
RM	ATURA	2.3"/ 58.47mm	URA	MATURA
		7.3"/ 184.97mm		
	INTURA NRMAT			
	. Nice .	General Information	171 171	
	Primary Power	12 VDC (3A min @12V)		
	RS485 connection	Port 1: RS485 standard / OSDP V2.1	.7	
	CPU	1.2 GHZ Quard Core ARM Processo		
	NPU	2.4 TOPS NPU		RI
RN	Memory	8 GB Flash + 1 GB RAM		
	Camera	Face Automatic Exposure Palm Automatic Exposure Face tracking Palm tracking WDR HDR 50Hz to 60Hz Automatic Adaption Dual Camera CMOS 2MP (Output image 720P*96)	0P)	RI
Ku	Primary Host Communication	Ethernet: 10/ 100 Mbps, auto MDI/ M Complies with TLS 1.2 for end to end		
1	Ethernet network connection	Port 1:10/ 100 Mbps, auto MDI/ MDI>	x	
DN	Data Protection	Complies with TLS 1.2 for end to end (Secured Communication between S AES128 (Secured Communication be OSDP Reader & Access Control Pan	tandalone Terminal & Server) etween Standalone Terminal &	R
Γ.	Number of Ports	1*TCP/IP 1*RS-485 Input: 4ch TTL Inputs Output: 1ch TTL Output 3 relays		
	Inputs	Wiegand in, Button, Sensor in, Aux Ir	nput	
<u>_</u>	Outputs	3 relays with dry contacts, Wiegand 0	Dutput, Lock, Alarm, Bell	KI

ARMATURA

Normally Open Contact Rating	5A @30Vdc resistive
Normally Closed Contact Rating	5A @30Vdc resistive
Tamper Switch	Magnetic tamper detection system
On-Board Monitor	Size: 2.4", Resolution: 320*240, Touch Monitor, TFT
Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)
MIC	Supported
User Capacity	50,000
RFID Card Capacity Maximum RFID Card Number Length	50,000 (1:N)/ 50,000 (1:1) Wiegand In & Out (up to 64 bits)
Face Capacity	10,000 (1:N)/ 50,000 (1:1)
	5,000 (1:N)/ 20,000 (1:1)
Palm Capacity	ANTUKA ANTUKA
RFID Reading Distance	13.56MHz & 125kHz: Up to 1.96"/ 50 mm (depending on environment and transponder)
Face Authentication Distance	Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm)
Palm Authentication Distance and Angle Tolerance	7" - 15.7" (18cm - 40cm) / Pitch +/- 35, Yaw +/- 60, Roll +/-35, Blend +/-30
Face Authentication Speed	100ms (Field Test Result)
Live Face Detection (Anti-Spoofing)	Supported
Recommend Installation Height:	Recommended Installation Height: 55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle)
Palm authentication Speed	140ms (Field Test Result)
Transaction Buffer	Records: 1,000,000
Access group	99 JANRA
On-Board Access Point Control	1 access point on board
On-Board Reader Support	1 (OSDP over RS485) or 1 (Wiegand Input)
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66
NRMM	NRMAI NRMAIO

ARMATURA

live of	RFID / Biometrics Reader Interface	line
Input Voltage	12 VDC (3A min @12V) (Equal to primary po	wer input)
Maximum Input Current	12 VDC (3A min @12V) (Equal to primary por	wer input)
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	pro-
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynchrono and 1 stop bit.	ous, half-duplex, 1 start bit, 8 data bits,
Wiegand	Wiegand In & Out (Up to 64 bits)	
Data Inputs	TCP/IP, RS485, OSDP and Wiegand standar Maximum RS485/ OSDP cable length: 500ft (Maximium Wiegand cable length: 328ft (100m	(152m)

Wear.	Cable Requirement	North and
Power & Relays	One twisted pair, 18 to 16 AWG	
Ethernet	CAT-5, minimum 330 ft. (100m)	
RS-485 Reader Port	9600-115200 bps, asynchronous, half-d One twisted pair with drain wire and shi Maximum cable length: 3937ft (1200m)	
Wiegand Port	20 AWG shielded ,328ft. (100m)	

			RMATURA	
Mechanical				
Dimensions	2.3" W x 0.77" D	x 7.3" H (58.47 x 19.5x 184.97mm)	TIRA	
Weight	327g	ARMA		
Mounting	Suited for mullior Supports rots-02	n-mount door installations or any flat surfac bracket	e mounting	
Housing Material	Aluminium alloy	+ Tempered glass	ARMATO	



	Environmental		
Operating & Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)		
Operating Humidity	10 - 95% RH (Non-condensing)	ARMAIO	
Certification(s)	CE, FCC, RoHS, UL (coming soon)		

Block en	Software Interface	
TCP/IP Mode	Ethernet: 10 - 100Base-TX	100
TCP/IP Protocol	VLAN, SSH, HTTP, IPv4, DNS	ARMATUKA
TCP/IP Encryption	Complied up to TLS1.2 end to end secure communication channel	
TCP/IP Communication	Push Protocol over HTTP, HTTPS and BEST Protocol over websock	
Supported Software	Armatura One Security System, Cielo365	