OmniAC Series - OmniAC20

All Weather Outdoor Multi-tech Smart Standalone Terminal

- Multi-Biometric technology combining palm and face recognition
- 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 OmniAC20 supports multiple mount types to meet most scenarios worldwide. Mounting accessories for speed gates 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(V2.1.7) over RS-485 communication between the OmniAC20 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

Offering credential options of palm, face, physical cards and QR codes.

- *IC Card, Desfire, HID Prox, iClass, SEOS, etc. *Integrate advanced multiple biometric recognition methods such as palm and face.
- *QR code scanning for visitors & employees. *PIN code option.



Video Intercom (Coming Soon)

The OmniAC20 supports video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



Installation Made Easy

Slim design & form factor makes this device easy to install. The OmniAC20 is suited for mullion-mount door installations or any flat surface mounting. Mounting accessories for speed gates are also available.



Modern Aesthetic Design

The build of the OmniAC20 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 OmniAC20 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 recognition distance range: 7" - 15.7" (18cm - 40cm) Face recognition distance range: 15.7"- 47.2" (40cm - 120cm)



Variable Input Voltage

The device is compatible with 9V-24V 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 Recognition Performance

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

Industry-leading combination of visible and NIR infrared recognition 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 OmniAC20 meets the needs of the contactless world with features like remote user enrollment, palm, mask detection and face recognition for users with or without masks. Our Palm/ Face/ Card/ QR code recognition technology supports contactless authentication.

Better Images, Faster Recognition



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 palm/ face AE function enables the device to obtain higher quality images which improves the recognition accuracy.







	ARMATURA	ARMATURA	ARMATURA
		Dimensions	
		2.3"/ 58.47mm	
		7.3"/ 184.97mm	
	ATURA	JRA INT	
	Ца." -	General Information	The second se
	Primary Power	12 to 24 VDC (3A min @12V)	
	RS-485 connection	Port 1: RS-485 standard / OSDP V2.	.1.7
	CPU	1.2 GHZ Quard Core ARM Processo	or
	NPU	2.4 TOPS NPU	R
	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	60P)
<u>N</u>	Primary Host Communication	Ethernet: 10/ 100 Mbps, auto MDI/ M Complies with TLS 1.2 for end-to-end	
	Ethernet network connection	Port 1:10/ 100 Mbps, auto MDI/ MDI	X
	Data Protection	Complies with TLS 1.2 for end-to-end (Secured Communication between S AES128 (Secured Communication b OSDP Reader & Access Control Par	Standalone Terminal & Server) between Standalone Terminal &
	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 I	Input
ſ	Outputs	3 relays with dry contacts, Wiegand	Output, Lock, Alarm, Bell

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 Screen, TFT
Audio Indicator	Internal speaker with adjustable intensity (Configurable on UI)
MIC	Supported
User Capacity	50,000
RFID Card Capacity	50,000 (1:N)/ 50,000 (1:1)
Maximum RFID Card Number Length	Wiegand In & Out (up to 64 bits)
Face Capacity	10,000 (1:N)/ 50,000 (1:1)
Palm Capacity	5,000 (1:N)/ 20,000 (1:1)
RFID Reading Distance	13.56MHz & 125kHz: Up to 1.96"/ 50 mm (depending on environment and transponder)
Face Recognition Distance	Dual Camera Liveness Detection On: 15.7" - 55.1" (40cm - 140cm) Single Camera Liveness Detection On: 15.7" - 78.7" (40cm - 200cm)
Palm Recognition Distance and Angle Tolerance	7" - 15.7" (18cm - 40cm) / Pitch +/- 35, Yaw +/- 60, Roll +/-35, Blend +/-30
Face Recognition 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 Recognition Speed	140ms (Field Test Result)
Transaction Buffer	Records: 1,000,000
Access group	99 ARA
On-Board Access Point Control	1 access point on board
On-Board Reader Support	1 (OSDP over RS-485) or 1 (Wiegand Input)
Protection / Resistance	Weather & Dust Proof Protection Rating compliant with IP66
IXI NRMIXI	NRMIN NRMIN

199.0	RFID / Biometrics Reader Interface	
Input Voltage	12 to 24 VDC (3A min @12V)	IRA
Maximum Input Current	12 to 24 VDC (3A min @12V)	NRMAION
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynch and 1 stop bit.	nronous, half-duplex, 1 start bit, 8 data bits,
Wiegand	Wiegand In & Out (Up to 64 bits)	
Data Inputs	TCP/IP, RS-485, OSDP and Wiegand sta Maximum RS-485/ OSDP cable length: 5 Maximum Wiegand cable length: 328ft (1	500ft (152m)
PMATURA	PMATURA	ADMATURA

New	Cable Requirement	Blocks.
Power & Relays	One twisted pair, 18 to 16 AWG	
Ethernet	CAT-5, minimum 330 ft. (100m)	NRMATU
RS-485 Reader Port	9600-115200 bps, asynchronous, half-dup One twisted pair with drain wire and shield Maximum cable length: 3937ft (1200m)	
Wiegand Port	20 AWG shielded ,328ft. (100m)	B24

			PWATUR
	Mecha	anical	Break and
Dimensions	2.3" W x 0.77"	D x 7.3" H (58.47 x 19.5x 184.97mm)	
Weight	327g		101
Mounting	Suited for mulli Supports rots-0	ion-mount door installations or any flat surface 02 bracket	mounting
Housing Material	Aluminum alloy	y + Tempered glass	NRMATON



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

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



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