

## **Omni Series - Omni20**

#### 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 Omni20 supports multiple mount types to meet most scenarios worldwide. 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.



#### 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.



#### 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 recognition distance range: 7" - 15.7" (18cm - 40cm) Face recognition distance range: 15.7" - 47.2" (40cm - 120cm)



#### **Advanced Security**

Secure communication: OSDP(V2.1.7) over RS485 communication between the Omni20 and access control panels. Using AES-128 encryption standards ensures the highest levels of data protection &



#### Variable Input Voltage

The device is compatible with 9V-24V input voltages.



#### 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



#### 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.



FeliCa.

Offering credential options of palm, face, physical

\*Integrate advanced multiple biometric recognition



#### **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.



#### \*QR code scanning for visitors & employees.

\*IC Card, Desfire, HID Prox, iClass, SEOS, etc.

Multi-Factor Authentication Capability

\*PIN code option.

cards and QR codes.



#### 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 recognition for users with or without masks. Our Palm/ Face/ Card/ QR code recognition technology supports contactless authentication.



#### Video Intercom (Coming Soon)

methods such as palm and face.

The Omni20 supports video intercom function suitable for most visitor scenarios. Two-way audio streaming with echo and noise cancellation lets you easily communicate with visitors.



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



#### Installation Made Easy

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





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### **Dimensions**

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	TUR <sup>A</sup>	ARMATURA	ARMATURA	
		General I	nformation	
	Primary Power	12 to 24 VI	OC (3A min @12V)	
	RS485 connection	Port 1: RS4	485 standard / OSDP V2.1.7	
	CPU	1.2 GHZ Q	uard Core ARM Processor	
	NPU	2.4 TOPS I	NPU	RA
	Memory	8 GB Flash	ı + 1 GB RAM	
VC.	Camera	Palm Autor Face tracki Palm tracki WDR HDR 50Hz to 60 Dual Came	Hz Automatic Adaption	RA
	Primary Host Communication		0/ 100 Mbps, auto MDI/ MDIX with TLS 1.2 for end to end secure communication	channel
	Ethernet network connection	Port 1:10/	100 Mbps, auto MDI/ MDIX	
, DN	Data Protection	(Secured C AES128 (S	with TLS 1.2 for end to end secure communication Communication between Standalone Terminal & Secured Communication between Standalone Termider & Access Control Panel)	erver)
Burn	Number of Ports	1*TCP/IP 1*RS-485 Input: 4ch <sup>-</sup> Output: 1ch 3 relays	TTL Inputs n TTL Output	
	Inputs	Wiegand in	n, Button, Sensor in, Aux Input	24
N DN	Outputs	3 relays wit	th dry contacts, Wiegand Output, Lock, Alarm, Bell	KIV



	Normally Open Contact Rating	5A @30Vdc resistive
Г	Normally Closed Contact Rating	5A @30Vdc resistive
M	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)
Γ	MIC ARMAN DIAM	Supported
	User Capacity	50,000
	RFID Card Capacity	50,000 (1:N)/ 50,000 (1:1)
V	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)
V	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)
V	Palm Recognition Speed	140ms (Field Test Result)
	Transaction Buffer	Records: 1,000,000
	Access group	99 MIRA
	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
M	W. W. W.	VKMV1.

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RFID	RFID / Biometrics Reader Interface				
Input Voltage	12 to 24 VDC (3A min @12V) (Equal to p	rimary power input)	. = 1 1		
Maximum Input Current	12 to 24 VDC (3A min @12V) (Equal to p	rimary power input)			
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128				
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynchiand 1 stop bit.	onous, half-duplex, 1 start bit, 8 c	lata bits,		
Wiegand	Wiegand In & Out (Up to 64 bits)				
Data Inputs	TCP/IP, RS485, OSDP and Wiegand star Maximum RS485/ OSDP cable length: 50 Maximium Wiegand cable length: 328ft (1	Oft (152m)			

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Mer.	Cable Requirement	Man.
Power & Relays	One twisted pair, 18 to 16 AWG	امد
Ethernet	CAT-5, minimum 330 ft. (100m)	TUKM ARMATI
RS-485 Reader Port		-duplex, 1 start bit, 8 data bits, and 1 stop bit. nield, 120 ohm impedance, 22-18 AWG,
Wiegand Port	20 AWG shielded ,328ft. (100m)	

Mechanical			
Dimensions	2.3" W x 0.77" D	x 7.3" H (58.47 x 19.5x 184.97mm)	TURA
Weight	327g		VIOW.
Mounting	Suited for mullion Supports rots-02	n-mount door installations or any flat surfact bracket	ee mounting
Housing Material	Aluminium alloy -	+ Tempered glass	ARMATO





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

Mz	Software Interface	
TCP/IP Mode	Ethernet: 10 - 100Base-TX	
TCP/IP Protocol	VLAN, SSH, HTTP, IPv4, DNS	ARMATI
TCP/IP Encryption	Complied up to TLS1.2 end to end secure communication chann	el
TCP/IP Communication	Push Protocol over HTTP, HTTPS and BEST Protocol over webs	sock
Supported Software	Armatura One Security System, Cielo365	)L.v.

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