# **OmniAC Series - OmniAC30**

# All Weather Outdoor Multi-tech Smart Standalone Terminal

- · Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Supports 125 kHz and 13.56 MHz frequency credentials
- Supports multiple mount types (Single gang/ European/ Asian box)





# Modern Aesthetic Design

The build of the OmniAC30 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 levels represent that the readers can withstand dust, dirt, sand, and are resistant to violent surf impact or strong winds and rain



# **Advanced Security**

Secure communication: OSDP(V2.1.7) over RS-485 communication between the OmniAC30 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 OmniAC30 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

Robust design & form factor makes this device easy to install. PoE option allows for minimal use of cabling and lowers the cost of installation. OmniAC30 supports multiple mount types (Single gang/ European/ Asian box) to meet most scenarios worldwide. Mounting accessories for speed gates are also available.



#### Industry-Leading Design and User Experience

The OmniAC30 provides an improved user experience with a 5" high resolution touchscreen and intuitive UI design. Using our advanced algorithms, users can get the best verification experience.

Palm recognition distance: 7" - 15.7" (18cm - 40cm) Face recognition distance: 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 (-20°C to 60°C) 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 OmniAC30 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 Automatic Exposure function enables the device to obtain higher quality images which improves the recognition accuracy.



# Sleep-and-Wake Mode

The function enables activation of face recognition camera upon detection of face, in case always-on face recognition is not needed, which reduces the heat generated by the always-on face recognition of the camera for better protection and performance of the device.



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# **Dimensions**

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		OEO AMURA	
1900	G	General Information	
Primary Power	IRA	9 to 24 VDC (3A min @12V)	N.
POE		Supported (IEEE 802.3 at compliant)	
RS-485 connection		Port 1: RS-485 standard/ OSDP V2.1.7	
CPU		1.2GHZ Quad Core ARM Processor	-UATURA
NPU		2.4 TOPs NPU	7/3/1/20
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*1280P)	
Primary Host Communication	JRIZ	Ethernet: 10/ 100 Mbps, auto MDI/ MDIX Complies with TLS 1.2 for end-to-end secure communication change	nel
Ethernet network connec	ction	Port 1:10/ 100 Mbps, auto MDI/ MDIX	
Data Protection	ARMATURA	Complies with TLS 1.2 for end-to-end secure communication chant (Secured Communication between Standalone Terminal & Server) AES128 (Secured Communication between the Standalone Termin OSDP Readers & Access Control Panels)	ARMINI
Number of Ports		1*TCP/ IP  1*RS-485 Input: 4ch TTL Inputs Output: 1ch TTL Output 2 relays	LOMATURA
Inputs	W.	Wiegand in, Button, Sensor in, Aux Input	W.
Outputs		Wiegand Output, 2 relays with dry contacts (Lock, Alarm)	



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
Video Phone	Coming Soon
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)
Face Recognition Posture Adaptability	Yaw ≤ 30°, Pitch ≤ 30°, Roll ≤45°
Face Recognition Accuracy	True Accept Rate (TAR)=99%@, False Accept Rate(FAR)=0.01%
Face Recognition Mode	1:1, 1:N
Face Recognition Speed	< 100ms (Field Test Result)
Face Recognition Liveness Detection	Yes (Infrared-visible light mode, Infrared Light Mode)
Face Mask Detection	Yes
Palm Recognition Distance	Liveness Detection On: 7" -15.7" (18cm - 40cm)
Palm Recognition Posture Adaptability	Yaw ≤ 45°, Pitch ≤ 30°, Roll ≤ 90°, Bend ≤ 30°
Palm Recognition Accuracy	True Accept Rate(TAR)=98.7%@, False Accept Rate(FAR)=0.01%
Palm Recognition Mode	1:1, 1:N
Palm Recognition Speed	< 140ms (Field Test Result)
Palm Recognition Liveness Detection	Yes (Infrared Light Mode)
Recommend Installation Height	55" (140cm) (Using the plate with tilt angle) 59" (150cm) (Plate with horizontal angle)
Transaction Buffer	Records: 1,000,000
Access group	99
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



RFID /	Biometrics Reader Interface	
Input Voltage	9 to 24 VDC (3A min @12V) (Equal to prima	ary power input)
Maximum Input Current	9 to 24 VDC (3A min @12V) (Equal to prima	ary power input)
RS-485 Protocol	OSDP 2.1.7 Secure Channel, AES-128	
OSDP Mode	9600-115200 bps, OSDP V2.1.7, asynchror and1 stop bit.	nous, 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 stand Maximum RS-485/ OSDP cable length: 500 Maximum Wiegand cable length: 328ft (100	Oft (152m)

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	Cable Requirement	
Power & Relays	Twisted pair, 18 to 16 AWG	and RA and
Ethernet	CAT-5, minimum 330 ft. (100m)	WWILL
RS-485 Reader Port		us, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. e and shield, 120 ohm resistance, 22-18 AWG, (1200m)
Wiegand Port	20 AWG shielded, 328ft. (100m)	)
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	Mechanical
Dimensions	3.82" W x 1.112" D x 8.23" H (97 x 28.5 x 209mm)
Weight	29.45oz (835g)
Mounting	Supports mounting plate installation (Single gang/ European/ Asian box) Supports rots-02 bracket
Housing Material	Aluminum alloy + Tempered glass



	Environmental	
Operating & Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	A
Operating Humidity	0 - 90%RH (Non-condensing)	ARMAIL
Certification(s)	CE, FCC, RoHS	

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

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	ATURA		ARMATURA RFID Card Modu			
	VKWW1.	Card Module Abbreviation	[RNP]		[RNI]	
Frequency	Classification	Compatible Readers	OmniAC20 & OmniAC30	197 -	OmniAC20 & OmniAC30	140
		LEGIC Advant		- 110		401
2		MIFARE Classic, Mini S50,S70,S50	√4)	VKA VIOLU	√4)	OKW
	'	MIFARE Classic EV1	√4)	191.	√4)	
		MIFARE DESFire Light	√4)		√4)	
		MIFARE DESFire EV1	√4)		√4)	
		MIFARE DESFire EV2	√4)	- 10 1	√4)	
		MIFARE Plus S, X	√4)	AIKIA	√4)	- 111
		MIFARE Pro X	√4) A P M (A)	ARV	√4)	TARMEN
		MIFARE Smart MX	√4)	1912	√4)	1717.
	ISO14443A	MIFARE Ultralight	√4)		√4)	
		MIFARE Ultralight C	√4)		√4)	
		MIFARE Ultralight EV1	√4)		√4)	
		NFC (NTAG2xx)		CT IR A	V-,	AIRA
<b>A</b>		PayPass	VDW VIOLEN	A ON A OWN	VAMOUA	Olym
^			VKhlie.	YKI In.	A KILLIO	
		SLE44R35		140		
		SLE66Rxx (my-d move)				
		Topaz			han	
		HID ICLASS SEOS		- 10 A	√20)	
		NFC (HCE Mode, works with Armatura ID)	WITH THE	Olym,	VII DIZE	(AMar.
7	VKhin.	Calypso	Mrs.	1 Riv		YKLIN.
	1	Calypso Innovatron protocol		No.		Man
9		CEPAS				
13.56MHz		HID iCLASS				
<u>n</u>	ISO14443B	CTS		10		-01
4/1///		Moneo	ATTIKE .	AT IKM	1117	AIKB
7		Pico Pass		ADNIZI		, 0,
		SRI4K, SRIX4K	The .	NIZ.	71.	
		SRI512, SRT512				
	ISO18092/ ECMA-340	Sony FeliCa	<b>√1</b> )		<b>√1</b> )	
	ATV.	EM4x33		118.5		
	DM ALV	EM4x35	ANIO" LOMAY	OI.	WIGHT	L DMD
			<b>√</b> 1)	W.	√10)	VIVIA.
	Min.	HID ICLASS				
	West.	HID iCLASS HID iCLASS SE/ SB/ Elite	<b>√</b> 1)		√10)	
	Wir.	HID iCLASS SE/ SR/ Elite	<b>√</b> 1)		<b>√</b> 10)	
	W	HID iCLASS SE/ SR/ Elite iCODE SLI	<b>√1</b> )		√10)	
100	W	HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant	<b>√1</b> )	- 1D A	√10)	101
TURA	ISO15693	HID iCLASS SE/ SR/ Elite iCODE SLI	<b>√1</b> )	MATURA	√10)	uRA
TURA	ISO15693	HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant	√i)	ARNATURA	√10)	URA
TURA	ISO15693	HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant M24LR16/64 MB89R118/119 SRF55Vxx (my-d vicinity)	√i)	ARN ATURA	√10)	URA
TURA	ISO15693	HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant M24LR16/64 MB89R118/119	<b>√1</b> )	ARNATURA	√10)	URA
TURA	ISO15693	HID iCLASS SE/ SR/ Elite iCODE SLI LEGIC Advant M24LR16/64 MB89R118/119 SRF55Vxx (my-d vicinity)	<b>√1</b> )	ARN ATURA	√10)	URA

ARMATURA		Card Module Abbreviation	ARMATURA RFID Card Module Supporting List  [RNP] [RNI]					
requency	Classification	Compatible Readers	OmniAC20 & OmniAC30			OmniAC20 & OmniAC30		
		AWID						
		Cardax		- 1D A	-1 1D A		-, 1D \	
		CASI-RUSCO	~14 1/2	<b>√</b>	ALL ATURM	√		
		Cotag Deister	Khim		ART IN	ARTI		
		EM4100, 4102, 4200		√		√		
		EM4050, 4150, 4450, 4550						
		EM4305	- 10 /					
	LILANA	FDX-B, EM4105	ANTUKA A		Z10			
RMD	SW 71	Ultra Prox	MIN	VKWW		KWA		
	11/21	G-Prox		1917.		71.	171.	
		HID DuoProx II (1336)		√1)		√1)		
		HID ISO Prox II (1386)		√1)		√1)		
		HID Micro Prox II (1391)		√1)		√1)		
		HID Prox III (1346)	- 15	√1)	TIKA	√1)	TIKA	
		HID Prox	L DMA	√1)	ADM ALOUS	√1)	HO111	
		HID Prox II (1326)	NA TANK	√1)	All III	√1)		
		HITAG 1, 2, S		,	100	,		
		ICT						
꾸		IDTECK						
125kHz	. 41	Indaia	THE A	. 711	2 1	ert IR A		
25	MMM		WHOM	- OM HU		DM VI OIX		
<del>-</del>	Klalim.	ioProx	11/192	15/4/1/2		Khiliss		
		ISONAS		No.			140-	
		Keri						
		Miro						
		Nedap						
		Nexwatch		HJK IA	ATURA		THKM	
		PAC	ADMA		ADMIA			
		Pyramid	7/121		71.2.	717.		
		Q5						
		T5557, T5567, T5577						
		TITAN (EM4050)						
	TALL	UNIQUE	LATUKA		K IA	T   K    \		
	DWW	ZODIAC	W VI O.					
		Globally Available	31	Y		Y	ZIV	
	Availability	Globally Available Except for U.S., E.U., Japan, Australia, Canada, U.K., Albania, Iceland, Liechtenstein, Monaco, North Macedonia, Norway, San Marino, Serbia, Switzerland, Turkey, and the United Kingdom	7440		TURA			

- 1) UID only
- 2) Read /write enhanced security features on request
- Read /write in direct chip command mode
- 4) UID only, read/write on request
- 5) UID + read /write public area

- 6) Hash value only
- 7) Only emulation of 4100, 4102
- 8) On request
- 9) Without encryption
- 10) UID+PAC (CSN & Facility Code), read /write on request
- 11) In preparation

- 13) EV2/EV3 supported as part of the EV1 upward compatibility
- 14) From FW V4.05
- 20) PAC (CSN & Facility Code), read /write on request

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