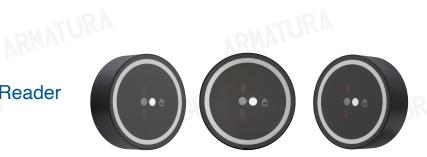


AMT-PVR-50

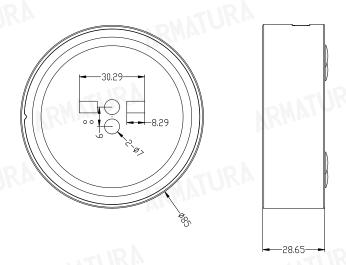
Standalone Dual-Camera Palm Reader



Overview

- Dual cameras to capture high-quality color and grayscale palm images of palm print and palm vein.
- · Wide-angle and short-focus lens for an excellent user experience.
- · Built-in algorithms for palm detection, liveness detection and feature extraction, providing fast development and flexible deployment.
- Adaptable to wide range of varying lighting conditions from 0.01 LUX to 100,000 LUX.
- 2-in-1 USB cable for both power supply and data communication offers convenience, cost savings, space efficiency, compatibility, and versatility
- Supports 125 kHz, 13.56 MHz frequency credentials. Supports multi-tech RFID card types, covering most of the common card formats in the market.
- · Compatible with MultiBio SDK and supports Windows, Android and Linux mainstream platforms.
- Easy to use, fast identification and safe privacy protection. The palm reader provides excellent biometric authentication experiences with a simple wave of the hand.
- Fields of application: Physical and digital security, point of sales and payment service, patient identity in healthcare, public transport and airport or border control, campus security and attendance services, customer identification and VIP access for retail business, etc.

Module Dimensions and Connection PIN Specifications





	General Information					
ARV	Processor	800 MHz Dual Core Cortex A53 Proces	ssor, 1.5 TOPs NPU			
	Memory	256MB RAM and 256MB Flash		UTAMar	RA	
	Camera	1.3 MP infrared camera; 1.3MP visible I				
	Interface	USB 2.0				
	Operating Frequency/ Standards	125KHz 13.56MHz: ISO14443A, ISO14443B, JI	S X6319-4, ISO15693			
	Card Type	ID card, IC card, MF card				
	Communication	UVC and HID Protocol			RA	
	Power Supply	DC 5.0V/ 1.0A				
	Power Consumption	< 2.0W (standby); < 4.0W (operation)				
	Operating Temperature	-10°C to 55°C / 14°F to 131°F		THATURA		
	Storage Temperature	-20°C to 65°C / -4°F to 149°F				
	Operating Humidity	15% to 95% RH (non-condensing)				
	Dimensions	85.0 (L) x 85.0(W) x 28.7(H) (±1 mm)				
	Weight	150g		YKhira.		
	Certifications(s)	CE, FCC, RoHS				

	Sensor					
	Camera Type	Visible Light Camera	Infrared Light Camera			
<u>N</u> R	CMOS	1/5" CMOS, 1.3MP				
	Optical Wavelength	440 nm to 650 nm	850 nm			
	Image Type	24-bit RGB true color	256 Grayscale Levels			
	Illumination Range	0.01 Lux to 100,000 Lux				
	Exposure Mode	Auto Expose on Region of Interest (AE on ROI)				
N.R.V	Image Resolution (Pixel)	Raw: 1024W * 1280H Output: 720W * 1280H	Raw: 1024W * 1280H Output: 720W * 1280H			
	Shutter Type	Global shutter				
	Field of View (FOV)	Horizontal: 116°, Vertical 95°, Diagonal: 145°				
	Frame per second	25fps /30fps				
	Distortion Rate	Wigner.	2%			



Built-In Algorithms					
Biometric Recognition Method	Palm				
Recognition Distance	5cm-15cm				
Authentication Mode ^[1]	1:1, 1:N				
1:N Capacity ^[2] :	30,000				
Palm Liveness Detection Time	<20ms (infrared-visible light mode; Infrared light mode)				
Feature Template Extraction Time	<25ms				
Comparison Time	<30ms				
Posture Adaptability	Yaw≤ 30°, Pitch≤ 45°, Roll≤180°, Bend≤ 20°				
Accuracy*	FRR=0.17% when FAR=0.001%				
Authentication Speed **	<100ms				

Notes:

^{*} The accuracy is assessed based on the Armatura proprietary palm datasets. FRR: False Rejection Rate, FAR: False Accept Rate.

^{**} The performance is tested based on image resolution of 480 * 640 and Quad-Core Cortex A9 CPU@1.5GHz platform.

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