

AMT-PVR-10 Near-Infrared Light Palm Reader



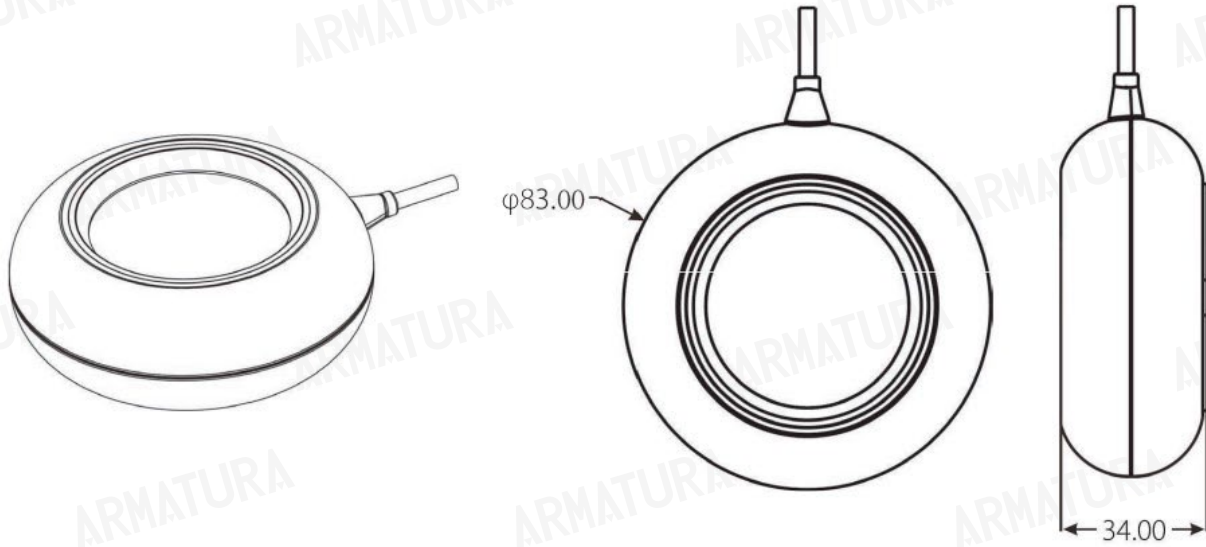
Overview

- AMT-PVR-10 palm reader enclosure embeds the AMT-PVM-10 module, a single-lens Near-Infrared (NIR) light camera module. The reader is used to collect grayscale palm images formed by palm prints and subcutaneous palm vein patterns for biometric recognition.
- Compared with face recognition technologies, palm-based biometric recognition has less privacy concern, can be more easily accepted by users. It provides an ideal alternative biometric solution where face recognition is heavily concerned.
- AMT-PVR-10 takes enhanced auto exposure approach with built-in Infrared LED to ensure superior palm image quality in varying indoor and most outdoor environments.
- Palm vein patterns are unique and life-long invariable to each person, invisible to human eyes, and formed by active blood flowing in live tissues. Its image can be captured only by special Infrared camera like AMT-PVR-10 reader which delivers highly secure anti-spoofing protection for user authentication.
- The built-in distance sensor auto triggers the reader's built-in Infrared LED when detects the approaching palm. This ensures consistently high-quality palm images in all lighting conditions, conserves the power and extends the hardware lifespan.
- The tri-color LED lights around the reader provides friendly interactive experience. Programmed by PalmLite SDK, LED's dynamic lighting assists guiding user's palm positioning over the reader and displays device operational status in real time.
- Wide field-of-view of the module lens makes palm enrollment and authentication fast and simple for individuals having varying heights.
- The built-in HDR sensor offers the module longer palm-read-range up to 15 inches.
- Single 2-in-1 USB 2.0 cable provides both data communication and power to the module.
- 100% hands-free user experience. AMT-PVR-10 provides a simple, natural, hygienic, non-invasive, and stress-free way for identity authentication. This is utmost important to prevent the spread of virus when the device is used in public.
- Portable, light weight, compact size with USB 2.0 interface makes it ideal for computer-based user authentication.
- For price-conscious customers, the module and Armatura PalmLite SDK together provide a cost-effective biometric identification solution.

Software Development Kit (SDK)

- AMT-FAR-10 reader is supported by Armatura PalmLite SDK.
- PalmLite SDK supports Windows, Android and Linux (on request) systems.
- PalmLite SDK provides fast and easy integration to most applications, reducing time to market.
- For more information on SDK, please refer to PalmLite SDK brochure.

Module Dimensions and Connection PIN Specifications



Unit: mm

General Information

Interface	USB 2.0
Power Supply	DC 5.0V/ 400mA
Power Consumption	≤0.85 W (standby); ≤2.0W (operation)
Operating Temperature	-10°C ~ 55°C / 14°F ~ 131°F
Storage Temperature	-20°C to 80°C / -4°F ~ 176°F
Operating Humidity	0 ~ 90% RH
Dimensions (D*H)	83 (D) * 34 (H) mm (±1mm)
USB Cable Length	1.0 m / 3.3 ft
Indicator LED	Red, Green, Blue
SDK	Armatura PalmLite SDK 12.0
Certification	CE, FCC, RoHS, WHQL

Sensor

CMOS	1/2.7" HDR CMOS Sensor
Dynamic Range	83 dB
Optical Wavelength	850 nm
Image Type	256 Grayscale Levels
Image Resolution	480W * 640H
Default Output Format	MJPEG
Distortion Rate	≤1%
Field of View	Horizontal: 37°; Vertical: 48°; Diagonal: 58°
Maximal Frame Rate	25 fps
Recognition Distance	15 cm ~ 35 cm / 6 inch ~ 14 inch

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