LONG RANGE FACE RECOGNITION
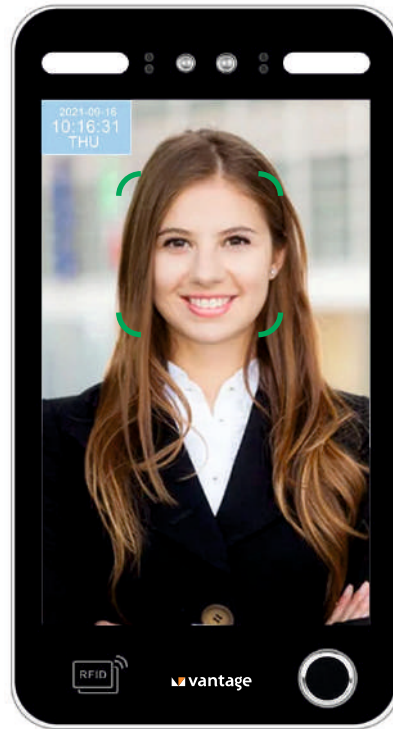## TIME ATTENDANCE SYSTEM

VV-BS1000FR-PCAT5
AI FACE + PALM VEINS RECOGNITION TIME ATTENDANCE SYSTEM

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RFID

vantage

| 5" Color LCD Display | Long Range Face Recognition | Touch Screen | Waterproof | Palm Vein Verification |

FEATURES

Multi-mode biometric verification time & attendance access control system

Less intrusive palm vein recognition, addressing privacy concerns by eliminating need to capture facial images

Long range face recognition detection distance of up to 8 feet supported

10" high definition LCD display with capacitive touch screen user interface

Dynamic biometric recognition modes support face, palm veins, fingerprint, PIN, 125KHz proximity card (13.56 MHz smart card optional)

User capacity of up to 50,000 face and 100,000 palm veins & fingerprint templates

Alarm notification through voice prompts & software alerts

Waterproof enclosure with IP65 ingress protection level

Centralized web-based time attendance & access control software application for real-time data & reports management

PARAMETERS/SPECIFICATIONS:

VV-BS1000FR-PCAT5

Parameter	Specifications
Operation System	Embedded Linux OS 3.10
CPU	1.2 GHz Dual-Core ARM Cortex-A7, 600G
NPU	Integrated AI neural processing unit
RAM	256 MB DDR3
ROM	4 GB eMMC
Display Resolution	10.1 Inch, HD 1280 x 800 pixels
Screen Technology	Capacitive LCD IPS touch screen
User Interface	Touch based OSD menu
Dual Camera Technology	Dual face recognition 2MP Full HD 1080p Color Camera, 2MP Full HD 1080p Infrared Camera
WDR	Wide dynamic range, supporting accurate face recognition under strong light , dark light and backlight
Dark Ambience Control	LED fill light/ dual high power infrared LED light (automatic control according to ambient lighting condition)
Ambient Light Adaptation Range	Up to 50,000 Lux
Automatic Fill Light	Support infrared fill light, the white fill light automatically lights up when face is captured in dark light
Face Enrolment	Local operation: register face directly via device camera, import image via U disk Software operation: import image via network software ,user image capture with camera
Face User Capacity	50,000
Face Recognition Distance	0.5~2.5 meters (0.5~1.5 meters live face recognition)
Face Recognition Accuracy	99.70%
Face Anti Spoofing	Dual camera anti-counterfeiting, prevents recognition with photo/video
Identification Technology	Multi-task cascaded convolutional Neural Network (MTCNN) face algorithm to detect, align, and extract facial features from digital video stream for dynamic face detection, tracking and recognition
Face Mask Detection	Alerts for face mask supported
Stranger Face Detection	Detects presence of non-registered face in front of camera and alert the system
Intelligent Function	Live face detection, enhanced photographic database supports face detection while wearing mask
Fingerprint Sensor	High performance semiconductor capacitive fingerprint scanner
Fingerprint Template Capacity	1,00,000
Palm Vein Capacity	1,00,000
Card Capacity	50,000
Transaction Capacity	5,00,000
Password Capacity	50,000
Multi-Mode Verification	Dynamic face recognition, fingerprint/ palm veins/ password, ID/IC card optional
Identification Mode	1:1, 1:N
Recognition Speed	≤ 0.2 sec, support single user /multi user (at most 5 users)
FRR	<0.1%
FAR	<0.001%
Recognition Prompt	Supports audio & visual message on successful recognition with name and user ID displayed on screen
USB	USB 2.0 x 1, supports U disk import/export data, including shift schedule
Speaker Interface	Built-in speaker
Network Communication	TCP/IP, supports LAN communication, Wi-Fi (optional), USB Type A

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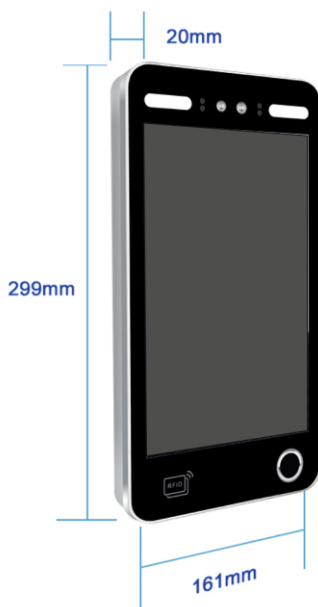|	
Access Control Interface	Relay ouput x 1 Alarm output x 1 Wiegand In & Out 26/34 bit x 1 Exit button x 1 Door sensor x 1 Electro-magnetic lock x 1
Time Attendance & Access Management	Compatible PC server based software supports data, user, shift setting & report management over LAN or USB disk
QR Scanner	Camera supports QR code scanning
Access Control Function	Door unclosed alarm, forced door opening alarm, alarm linkage and output, one set of door opening signals, one set of alarm signals, time permission control,connect external access control reader, Wiegand 26/34 output input
Anti-Pass Back	Available in wiegand
Ingress Protection Rating	IP65
Working Current	Stand-by current:310mA , Working current: 520mA
Working Voltage	DC 12V
Power Supply	DC 12V interface x 1
Working Temperature	-15°C~50°C
Working Humidity	90% or less non condensing
Installation Options	Standard: Wall mount, desktop stand; Optional: bracket for flap barrier/ turnstiles, floor stand
Dimension	299x161x20mm
Weight	0.8kg
Certifications	CE, FCC, ROHS

*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Product image, weights and measurements are approximate and may vary due to customized solutions & products being offered as per customer requirements.

DIMENSIONS

Unit: mm