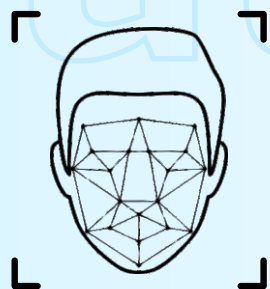


# Pro Series

“High Speed Long Range Face Recognition”



Face Capacity  
**20,000**



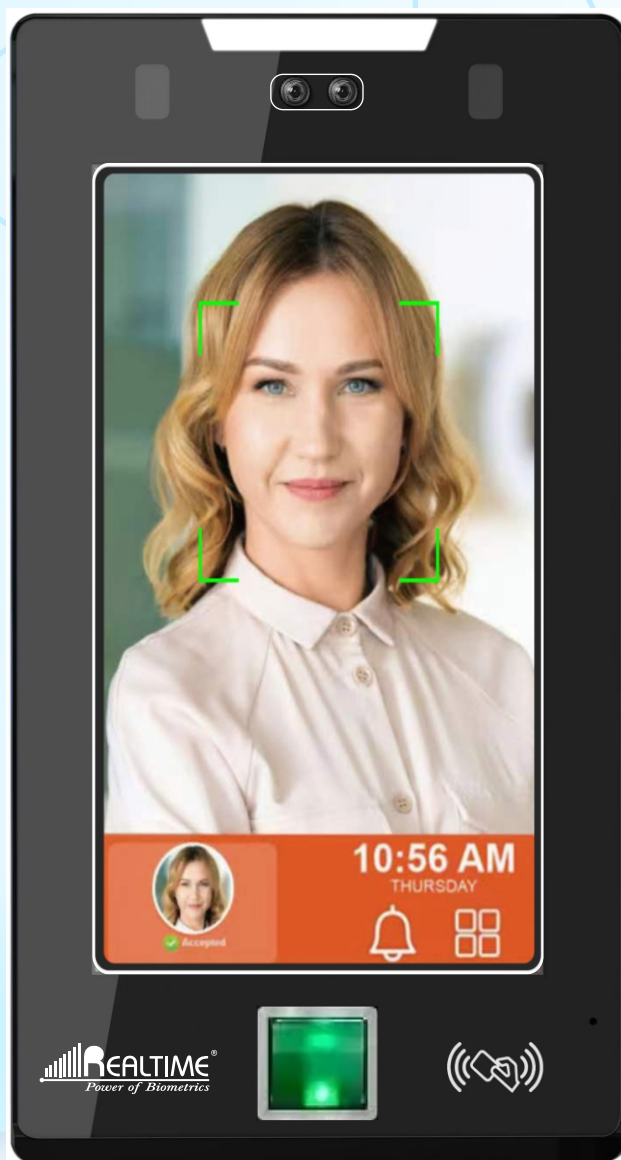
PIN Capacity  
**20,000**



Finger Capacity  
**20,000**



Card Capacity  
**20,000**



**Water Proof**



**Water Proof**

# WATER PROOF DEVICE

# REALTIME PRO1600F TECHNICAL SPECIFICATIONS

<b>User Capacity</b>	: 20000
<b>Face capacity</b>	: 20000
<b>Card capacity</b>	: 20000
<b>Password capacity</b>	: 20000
<b>Fingerprint Verification Mode</b>	: 1:1, 1:N
<b>Max Attendance log</b>	: 500,000
<b>Verification</b>	: Face, Fingerprint, card, password and combinations
<b>Display</b>	: 7 inches HD Color Display
<b>CPU</b>	: Mediatek 1.7Ghz
<b>OS</b>	: Linux
<b>RAM</b>	: 4GB
<b>ROM</b>	: 64GB
<b>On Screen Advertising</b>	: Yes, Multiple Images can be displayed
<b>Communication</b>	: TCP/IP, Wi-Fi, P2P Cloud
<b>U-disk</b>	: Data to Pen Drive Downloading supported
<b>Idle Current/ Working Current/Power Supply</b>	: 400mA/500mA/12V 2amp
<b>Working Temperature &amp; Humidity(RH)</b>	: -10°C~ +55°C / 20% ~80%
<b>Power management</b>	: Sleep Mode
<b>FAR/FRR</b>	: 0.001/1(%)
<b>Access Control</b>	: Built In
<b>Door Control</b>	: Directly control of door lock / indirectly control of door lock via Wiegand access controller
<b>Sound Indicator</b>	: Buzzer, Voice
<b>Centralized</b>	: Yes, Centralized device management, centralized data management, Third party data integration to centralized server
<b>Working Mode / 4G GPRS / POE</b>	: Online / Offline / Support (Optional) / Supported
<b>Scanner</b>	: Prism and Lens should be intrigrate part of the optics of the FP scanner, to prevent spoofing by removing prism and directly using printed Fingerprint image instead of Live Finger.
<b>Sensors</b>	: CMOS sensor
<b>Scanning Speed</b>	: 1/15 second
<b>Image resolution</b>	: 500 dpi (H),500 dpi(V)
<b>Image capture format</b>	: 13.3 x 16.4(mm) (H * V)
<b>Scanner output image size</b>	: 264 * 324 pixels(H * V)
<b>Gray Level</b>	: 8bits/pixel,max 256 gray scales
<b>Image ratio of length to width</b>	: 01:01
<b>Scanner interface cable</b>	: Standard USB compliant cable
<b>Power supply</b>	: 1 watt approx(from USB port)(200mA,approx,standby:60mA)
<b>Minimum hardware requirement</b>	: P3 800MHz CPU or up,256MB,USB2.0
<b>Distortion</b>	: <1%
<b>Temperature(without external enclosure)</b>	: 0°C~50°C
<b>Humidity</b>	: < 90% non condensing
<b>Scanning light source</b>	: infrared red (940nm)
<b>Operating volts</b>	: +5V Tolerance 5% (USB connector)
<b>Scanner</b>	: Optical
<b>Face Technology</b>	: Encrypted biometric templates (ISO/IEC 19794-5, ANSI/INCITS 385 compliant) GDPR/IT Act compliant data handling with role-based access control Configurable data-retention and automatic anonymization features
<b>Face Detection</b>	: Multi-task CNN / RetinaFace with FP16 inference; detects faces ≥ 40×40 px at up to 60 FPS.
<b>Face Alignment</b>	: 5-point and 68-point landmarking with affine normalization to 112×112 px.
<b>Feature Extraction</b>	: Deep residual CNN (e.g., ArcFace/FaceNet derivative) generating 512-D embeddings; cosine similarity metric.
<b>Matching / Search</b>	: Optimized FAISS / HNSW index for >1M templates; latency < 200 ms for 1:N search on 1:50,000 dataset.
<b>Liveness Detection</b>	: Fusion of IR depth map, micro-motion analysis, and texture anti-spoof (ISO/IEC 30107-3 compliant)



Face



TCP/IP



Personal Identity Number



Access Control



WiFi



Fingerprint Scanner



4G (External)



RFID Reader



Cloud



USB Disk

Access all employees attendance securely with High speed long range face recognition