

BD8500

Facial Recognition Smart Terminal



Face



Fingerprint



Live Detection



2M HDR
Camera



Android 8.1



Powerful. Integrated. Wide application. The BD8500 powerfully integrates facial recognition, fingerprint biometrics, and RFID on the Android operating system, making it ideal for deployment in many diverse identity-based solutions. It runs Aratek's patented TrustFace Algorithm enabling Live Face Detection on the built-in Dual HDR cameras. Combined with its FBI-certified fingerprint sensor, the Aratek BD8500 offers one of the most advanced solutions for ID and authentication in the market today. The Aratek BD8500 simplifies security management so you get the job done easily, seamlessly.



Advanced Face Recognition Algorithm

The BD8500 has Aratek's patented face recognition algorithm that the recognition rate is 99.72% in LFW face database



Liveness Detection

Support live detection to detect liveness and to ensure user presence



Blacklist

Connects with client database to monitor, detect and report any entry of blacklisted persons



Modular Design

The BD8500 equipped fingerprint, camera and OCR modules, offering great flexibility through the ability to optimize and select functionality based on customer needs



Fingerprint Recognition Capability

The BD8500 is coupled with a durable capacitive scanner that fully compliant with FBI FAP 10, STQC, ISO19794-2, ANSI-378 and WSQ standards



2MP Dual HDR Camera

Allows high quality facial image capture in all lighting conditions, whether in a dark room or in the bright outdoors



LED Fill Light

The LED Fill light improves face recognition performance, and it can be easily customized in 7 different colors that delivering a visually compelling user experience

Applications

- Access Control
- Time & Attendance
- Visitor Management
- Hotel Management

BD8500 Facial Recognition Smart Terminal

Physical Parameter

Operating System	Android 8.1
Processor	Quad-Core ARM 1.8GHz CPU + ARM Mali-T76x GPU
Memory (RAM+ROM)	2G+8G, 4G+64G (Option)
Display	11.6" IPS touch screen
Resolution	1920*1080
SD Card	Micro SD card, Maximum support to 128G
Weight	1.71kg
Dimension (W*L*H)	289.1*292.3*159.1mm

Facial Recognition

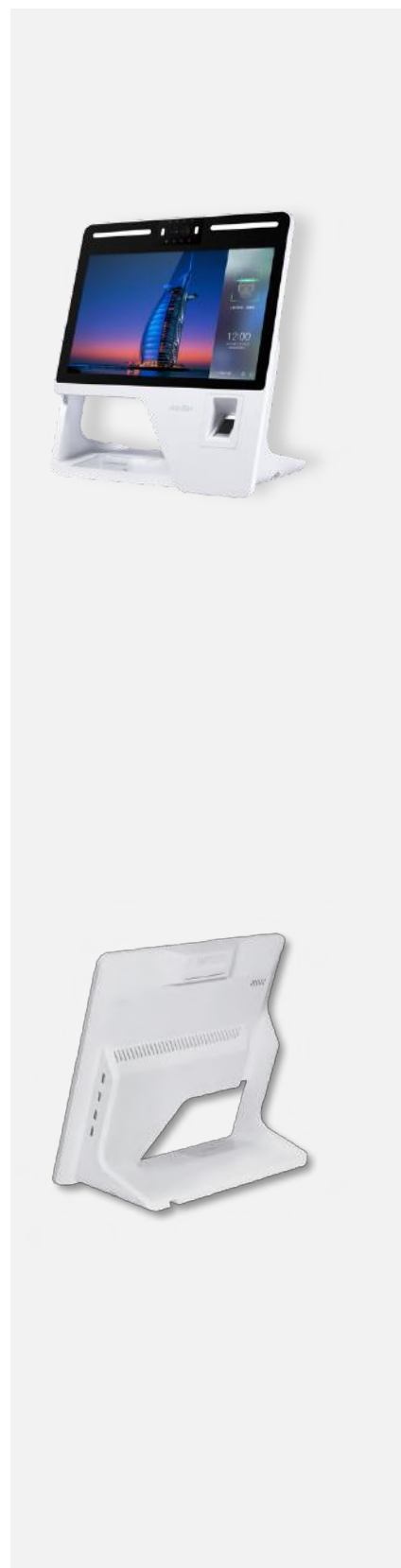
Camera	1080P Dual HDR Camera with fill light, 105dB wide dynamic
Distance	0.3~1.5m
Accuracy	≥99%
Response Time	≤1s
Stranger Detection	Support
Fake Face Alarm	Support
Liveness Detection	Support

Fingerprint Recognition

Sensor Type	Capacitive
Platen Size (W*L)	14.25*19.3 mm
Sensing Area (W *L)	12.8*18 mm
Image Size	256*360 pixels
Image Resolution	508 dpi
Gray level	256 level

Other

WiFi	802.11b/g/n (option to 802.11a/b/g/n)
Bluetooth	Bluetooth 4.0
Interfaces	RJ45, HDMI, USB 2.0*3
Adaptor	12V/3A
Lighting	Comply with IEC 62471, IEC 60825-1
Operating Humidity	5%~90%
Operating Temperature	-20°C~50°C
Installation	Desktop



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