

BD8500

11.6" Desktop Facial Recognition Smart Terminal



Smart. Flexible. Service-ready. The Aratek BD8500 brings facial recognition, multi-factor identification, and interactive user operation into one desktop smart terminal. Its large touchscreen supports a clear and intuitive experience for visitor management, attendance, hotel check-in, and front-desk access workflows, while dual-camera facial recognition with liveness detection helps strengthen identity verification. With contactless card reading and configurable options such as FBI FAP 10 fingerprint recognition, barcode reading, and OCR capture, the BD8500 gives organizations a flexible way to support different users, credentials, and service scenarios from a single terminal.



Advanced Facial Recognition

Dual-camera facial recognition supports smooth and reliable identity verification.



Stranger Detection & Fake Face Alarm

Detects unregistered users and helps alert against fake-face attempts.



Contactless Card Reading

Built-in contactless card reading supports familiar credential-based access and check-in.



Multi-Factor Access

Supports flexible access policies by combining face, fingerprint, card, or barcode credentials.



Optional Fingerprint Recognition

Built-in FBI PIV FAP 10 fingerprint recognition adds a trusted biometric option.



Barcode Scanning Option

Optional barcode reading supports visitor passes, QR codes, and temporary credential workflows.



OCR Camera Option

Optional OCR camera supports document-based registration and visitor information capture.



Large Interactive Touchscreen

11.6-inch touchscreen provides a clear interface for visitor, attendance, and front-desk workflows.

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Basic

Operating System	Android 14
Processor	4×Cortex-A72 @2.2GHz+4×Cortex-A53 @1.8GHz CPU, 6TOPS NPU
Memory (RAM+ROM)	4G+64G, (Option: 6G+128G)
Display/Resolution	11.6" IPS touch screen, 1920*1080 pixels
OCR Camera (Option)	5MP FF
SD Card	Micro SD card, Maximum support to 256G
Charger	Input: 100-240V, 50/60hz, Output: 12V/3A
Weight	1.71kg
Dimension (W*L*H)	289.1*292.3*159.1mm
Temperature and Humidity	Operating: 0°C~50°C, 10%~75% Storage: -20°C~60°C, 5%~85%

Facial Recognition

Camera	1080P Dual Camera with fill light,
Distance	0.3~2m
Accuracy	≥99%
Response Time	≤1s
Stranger Detection	Support
Fake Face Alarm	Support
Liveness Detection	Support

Fingerprint Recognition (Option)

Sensor Type	Capacitive, FBI-PIV FAP 10
Platen Size (W*L)	14.25*19.3 mm
Sensing Area (W *L)	12.80*18.0 mm
Image Size	256*360 pixels
Image Resolution	508 dpi
Gray Level	256 level

Credential Reading

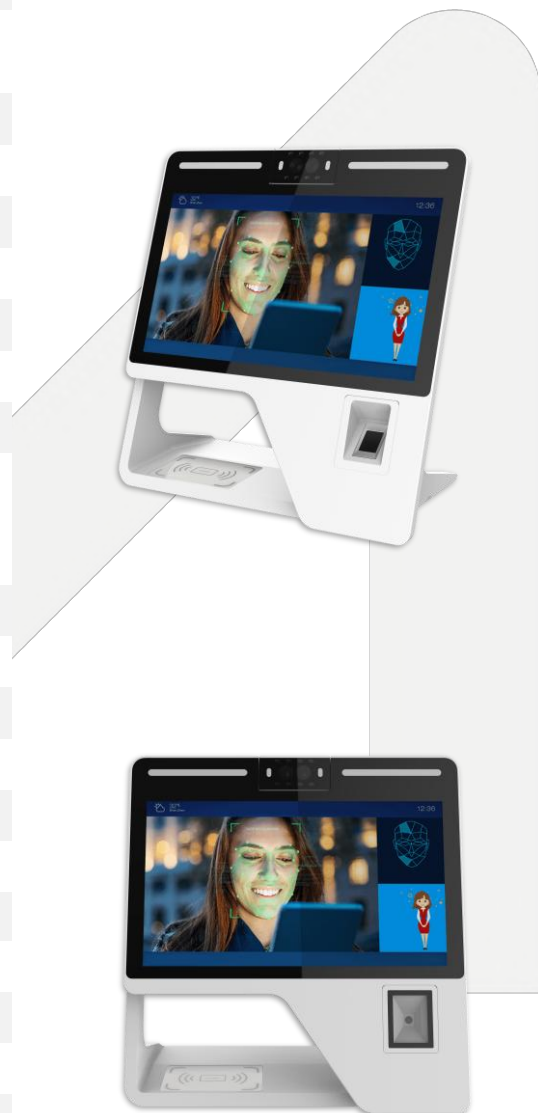
Contactless Reader	ISO14443 A/B, MIFARE
Barcode Reader (Option)	1D, 2D, PDF417, QR code, Code 39

Communications

Wi-Fi	802.11a/b/g/n/ac
Bluetooth	BT 5.2
Interfaces	RJ45, HDMI, USB 2.0*3

Other

Installation	Desktop
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Applications

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

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