BI●METRIYA

SMART BIOMETRICS SYSTEMS

Biometriya Multi-Biometric One
BMB One

Nov 16, 2022

BMB One

BMB One is versatile mobile platform for verification and authentication of citizen identity by using state-of- the art biometric and automatic data capture technologies. It is equipped with multi-modal biometric sensors of fingerprint , dual iris, facial recognition, and thermometer and e-document readers of MRZ, Barcode scanner, contact & contactless smart card, HID iClass and MSR. All functions can co-exist in one device or user can select needed options only. Built-in 6700mAH battery ensures all-day long operation. **BMB One** is compatible with virtually all android smartphones and tablets which provide customers with a great deal of flexibility in selecting base device and changing in the future in accordance with budget and application. BMB One is IP64 sealed and 1.5m drop-resistant to endure outdoor work environment. BMB One will certainly streamline mobile operations of access control, workforce management, air/sea port control, KYC(Know Your Customer) and any applications requiring verification and authentication of individual identity.

BMB One

Barcode Scanner

Facial Recognition Camera

NFC Reader

Fingerprint Reader

Iris Recognition

Medical Grade Thermometer

Integrated SAM Card Slot

Smartcard Reader

OCR/MRZ
ABCD<<<<
1234ABCD

HID RFID Reader

MSR

✓ *All functions are optional (Mix-and-match is available)*

ADVANTAGES

OUTTERBOX UNIVERSE & CUSTOMIZED CASE

- Otterbox Universe case : Compatible with Samsung Galaxy Smartphones and Tab
- Customized case : Compatible with virtually all android smartphones and tablets
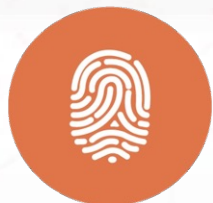

Samsung Galaxy Phone

Samsung Galaxy Tablet

Sliding

Sliding

✓ Available device with Otterbox Universe case

- Samsung Galaxy Xcover Pro
- Samsung Galaxy Tab Active 2
- Samsung Galaxy Tab Active Pro
- Samsung Galaxy Tab A7 Lite
- Samsung Galaxy Tab Active 3
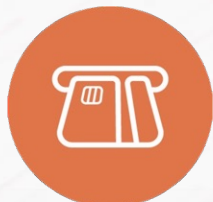- Google Pixel 6
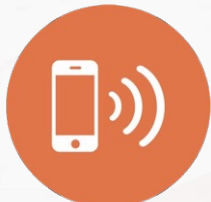
ADVANTAGES

Fingerprint
FAP30/FAP20

Dual Iris
Reader

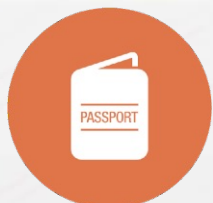Facial Recognition
Camera

Contact Smartcard
Reader

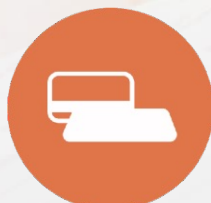Contactless
Smartcard Reader

HID Dual frequency
RFID Reader

6700mA Battery Charge
to Smartphones

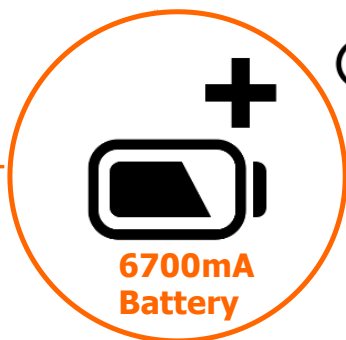MRZ(OCR)

1D/2D Barcode
Scanner

MSR

Medical-Grade
Thermometer

ADVANTAGE

High-capacity battery (6,700mAh)

- A10's high-capacity battery can charge smartphone.
- It ensures full-shift heavy duty operation without charging.

BMB One

6700mA Battery

Charging

Smartphone

Tablet

BMB One

SPECIFICATION

Data Capture	
Fingerprint(one finger)	IB DANNO FAP30 TFT PIV Certified (Suprema FAP20 : Optional) Sensor : Light-emitting sensor (LES) TFT camera Resolution / Gray Scale : 500 ppi / 256 grayscale Imager Size / Speed : 400 x 500 pixels / > 10 FPS
Dual Iris Scanner	Sensor : 5MP B&W CMOS sensor Range / Resolution : 320±40mm / Above 160 pixel/cm Illumination / Image : IR LED / 2592 x 920 x 30 frame
Camera	13MP auto focus with LED flash / controlled by Gen2wave SDK Optimized for photo and video shooting, facial recognition
Contact Smart Card Reader	Contact type smart card reader : ISO 7816 compliant
NFC	ISO 14443A/B part 1-4 Mifiare Classic Optimized for e-Passport and eID card RFID chip reading 1 SAM slot
HID RFID Reader	HID OMNIKEY 13.56 MHz HF / 125 KHz LF RFID HF Transmit Frequency 13.56 MHz +/- 50 ppm Smart Card Technologies: ISO14443A/B ISO15693, FeliCa™ (IDm), CEPAS (CSN)
MRZ (OCR)	ID1, ID2 and ID3 document type ID cards, Passports, visas, Driver's Licenses ICAO 9303, ISO/IEC 7501-1, ISO 18013-3
Barcode Scanner	High performance 1D/2D Imager
MSR	Reads magnetic cards complying with ISO7811/2-5
Thermometer	High precision non-contact temperature measurements Ideal distance is around 3cm (1.2inch) High accuracy of 0.5℃ (32.9°F) in a wide temperature range Measurement resolution of 0.02℃ (32°F)

SPECIFICATION

General Characteristics	
Compatible Smartphones	Samsung Galaxy smartphones and Tab Galaxy Tab if fingerprint reader is not required (Any android devices supported by Otterbox uniVERSE cases)
Battery	6700mAH Li-Polymer
Dimensions	80mm(W)x 230mm(L)x 45mm maximum thickness / 28mm(D) minimum thickness 3.1 inch (W) x 9.0 inch (L) x 1.7inch / 1.1inch (D)
Weight	430g (15 oz) All technologies included
Buttons	3 buttons on the A10 sides. (2 programmable keys / One power key)
LED	2 LED : charging / power status
Smartphone Connect	USB Type C (male)
Smartphone Positioning	Otterbox uniVERSE case with slot and slide
Connection	USB Type C (female) for charger connection and for connecting to other equipment
Communication	C type USB host / client
Charging	High-speed charging : 5~12V, 1.5A (Smartphone & A10) Qualcomm quick charge 3.0 supported When the A10 is off, : A10's battery support (charge) smartphones : Smartphones and A10 can be charged simultaneously
User Environment	
Operating Temp	-20℃ ~ 60℃ (-4°F ~ 140°F)
Storage Temp	-30℃ ~ 70℃ (-22°F ~ 158°F)
Humidity	Non-condensing, 93%
Drop & IP sealing	1.5m (w/o smartphone) , IP64 (w/ cover to smartcard reader)
Supported Software	
Smartphone OS	Android 9.0 or higher
Development Tools	Android studio, Eclipse
Development SDK	With Java SDK : Barcode scanner, MRZ, MSR, Fingerprint, Smart card, Iris, RFID, Temperature Measurement, Camera

THANK YOU

www.biometriya.com