



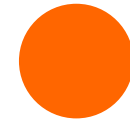
**BIOMETRIYA MULTI-BIOMETRIC ONE**  
**BMB ONE**

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



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



# ADVANTAGES

## OTTERBOX 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

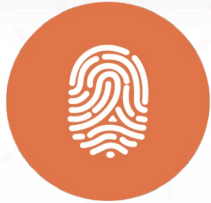


### Samsung Galaxy Tablet





# ADVANTAGES



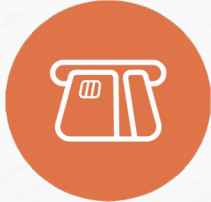
Fingerprint  
FAP30/FAP20



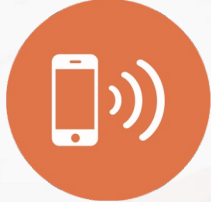
Dual Iris  
Reader



Facial Recognition  
Camera



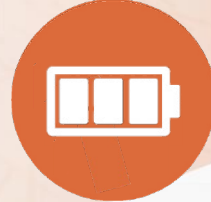
Contact Smartcard  
Reader



Contactless  
Smartcard Reader



HID Dual frequency  
RFID Reader



6700mA Battery Charge  
to Smartphones



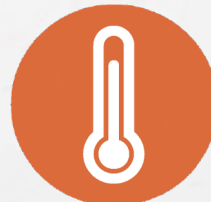
MRZ (OCR)



1D/2D Barcode  
Scanner



MSR



Medical-Grade  
Thermometer





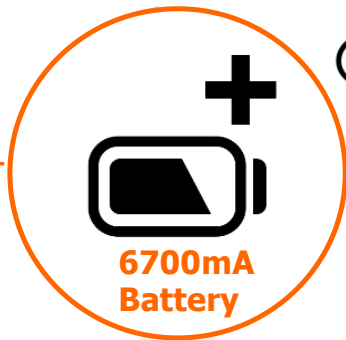
# ADVANTAGE

High-capacity battery (6,700mAh)

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



**BMB One**



Charging



**Smartphone**



**Tablet**



**BMB ONE**





# SPECIFICATION

Data Capture	
<b>Fingerprint(one finger)</b>	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
<b>Dual Iris Scanner</b>	Sensor : 5MP B&W CMOS sensor Range / Resolution : 320±40mm / Above 160 pixel/cm Illumination / Image : IR LED / 2592 x 920 x 30 frame
<b>Camera</b>	13MP auto focus with LED flash / controlled by Gen2wave SDK Optimized for photo and video shooting, facial recognition
<b>Contact Smart Card Reader</b>	Contact type smart card reader : ISO 7816 compliant
<b>NFC</b>	ISO 14443A/B part 1-4 Mifiare Classic Optimized for e-Passport and eID card RFID chip reading 1 SAM slot
<b>HID RFID Reader</b>	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)
<b>MRZ (OCR)</b>	ID1, ID2 and ID3 document type ID cards, Passports, visas, Driver's Licenses ICAO 9303, ISO/IEC 7501-1, ISO 18013-3
<b>Barcode Scanner</b>	High performance 1D/2D Imager
<b>MSR</b>	Reads magnetic cards complying with ISO7811/2-5
<b>Thermometer</b>	High precision non-contact temperature measurements Ideal distance is around 3cm (1.2inch) High accuracy of 0.5°C (32.9°F) in a wide temperature range Measurement resolution of 0.02°C (32°F)







# SPECIFICATION

General Characteristics	
<b>Compatible Smartphones</b>	Samsung Galaxy smartphones and Tab Galaxy Tab if fingerprint reader is not required (Any android devices supported by Otterbox uniVERSE cases)
<b>Battery</b>	6700mAH Li-Polymer
<b>Dimensions</b>	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)
<b>Weight</b>	430g (15 oz) All technologies included
<b>Buttons</b>	3 buttons on the A10 sides. (2 programmable keys / One power key)
<b>LED</b>	2 LED : charging / power status
<b>Smartphone Connect</b>	USB Type C (male)
<b>Smartphone Positioning</b>	Otterbox uniVERSE case with slot and slide
<b>Connection</b>	USB Type C (female) for charger connection and for connecting to other equipment
<b>Communication</b>	C type USB host / client
<b>Charging</b>	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	
<b>Operating Temp</b>	-20°C ~ 60°C (-4°F ~ 140°F)
<b>Storage Temp</b>	-30°C ~ 70°C (-22°F ~ 158°F)
<b>Humidity</b>	Non-condensing, 93%
<b>Drop &amp; IP sealing</b>	1.5m (w/o smartphone) , IP64 (w/ cover to smartcard reader)
Supported Software	
<b>Smartphone OS</b>	Android 9.0 or higher
<b>Development Tools</b>	Android studio, Eclipse
<b>Development SDK</b>	With Java SDK : Barcode scanner, MRZ, MSR, Fingerprint, Smart card, Iris, RFID, Temperature Measurement, Camera





THANK YOU

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