



**Bio X**

## General Specifications

<b>Power Requirement</b>	- VDC at unit	7 - 18 VDC
<b>Current Consumption</b>	- Idle	48mA
	- Peak	173mA
<b>Card Read Range</b>	- Metric	20mm - 40 mm
	- USA	0.8" - 1.6"
<b>Operating Temperature</b>	- Metric	-10°C to +50°C
	- USA	+14°F to +122°F
<b>Relative Humidity</b>	- % max	90%, operating non condensing
<b>Reader Dimensions</b>	- Metric	190mm (L) x 119mm (W) x 58mm (D)
	- USA	7.5" (L) x 4.7" (W) x 2.3" (D)
<b>Status LED's</b>	- Colour	Red/Green, Blue, Yellow
<b>Audible Tone</b>		Internal & external buzzer control
<b>Colour finish</b>		Charcoal
<b>Sensor</b>		Optical
<b>Certifications</b>		ROHS
<b>IP Rating</b>		IP65
<b>Warranty</b>		12 Months

BIO X-2 M2000

*Ultimate security, combining leading edge fingerprint scanning with secure encryption.*

The Bio X delivers the ultimate security by combining leading edge fingerprint scanning with secure encryption to provide 1 or 2 factor authentication. All within a robust weatherproof unit. The Bio Series is supplied standard with template on card, template on reader and/or 3<sup>rd</sup> Party database is also available.

Also available is our BIO XK which includes a keypad for 1, 2 or 3 factor authentication. An SDK enabled unit is also available for the BTBio XK and DFBio XK models.

## Model Features

Model	Technology			Authentication Factors			Encode			Encryption			Sector Keys			13.56MHz Credential type and option				Output Protocol			Other								
	Mifare Classic	Mifare Plus	DESfire	Card	Biometric	Keypad	CSN/UID	Sector	Application	Random UID	Diversified Keys	Crypto 1	3 DES	AES (optional)	MIPASS 2	MIPASS 3	Customisable	ISO14443A	ISO14443B	Mifare 1K & 4K	Mifare Plus 2K & 4K	DESfire EV1 4K & 8K	Wiegand 32 Bit	Wiegand 26-199 Bit	Encrypted RS485*	Read / Write	SDK Available	Indoor / Outdoor	Tamper option		
BIO X																															
BIOMIP2X	✓			✓	✓		✓	✓		✓	✓			✓				✓	✓			✓			✓			✓		✓	
BIOMIP3X			✓	✓	✓		✓	✓		✓	✓	✓			✓			✓	✓			✓	✓		✓			✓		✓	
BTBIOX	✓			✓	✓		✓	✓		✓	✓						✓	✓				✓	✓		✓			✓		✓	
DFBIOX	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

\* Requires High Security Module (HSM) AES 128bit encryption