



**Bio XK & Bio X**

*Ultimate security, combining leading edge fingerprint scanning with secure encryption and optional PIN*

## General Specifications

Power Requirement	- VDC regulated	12 VDC @ 0.5 amp
Current Consumption	- Average	154ma
	- Peak	252ma
Card Read Range	- Metric	20mm - 40 mm
	- USA	0.8" - 1.6"
Operating Temperature	- Metric	-0°C to +65°C
	- USA	+32°F to +149°F
Relative Humidity	- % max	90%, operating non condensing
Reader Dimensions	- Metric	188mm (L) x 121mm (W) x 60mm (D)
	- USA	7.4" (L) x 4.76" (W) x 2.36" (D)
Status LED's	- Colour	Red/Green, Blue, Yellow
Audible Tone		Internal & external buzzer control
Colour finish		Two toned Charcoal
Sensor		Optical
Certifications		ROHS
IP Rating		IP65
Warranty		12 Months

BIO

The Bio Series delivers the ultimate security by combining leading edge fingerprint scanning with secure encryption and optional keypad to provide 1, 2, or 3 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. An SDK is also available for the BTBio XK and DFBio XK models.

## Model Features

BIO X/XK	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	Mifare Plus	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	Indoor / Outdoor	Tamper option		
BIOMIP2X	✓			✓	✓		✓	✓		✓	✓				✓				✓	✓			✓	✓		✓	✓	✓	✓	✓	
BIOMIP2XK	✓			✓	✓	✓	✓	✓		✓	✓				✓				✓	✓			✓	✓		✓	✓	✓	✓	✓	
BIOMIP3X			✓	✓	✓		✓	✓		✓	✓		✓			✓			✓	✓			✓	✓		✓	✓	✓	✓	✓	✓
BIOMIP3XK			✓	✓	✓		✓	✓		✓	✓		✓			✓			✓	✓			✓	✓		✓	✓	✓	✓	✓	✓
BTBIOX	✓			✓	✓		✓	✓		✓	✓							✓	✓					✓	✓	✓	✓	✓	✓	✓	✓
BTBIOXK	✓			✓	✓	✓	✓	✓		✓	✓							✓	✓					✓	✓	✓	✓	✓	✓	✓	✓
DFBIOX	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓				✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
DFBIOXK	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓				✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓

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