

**Intelligent Access Reader  
ST-680/ ST-660**

MODEL	ST-660	ST-680
Reading Mode	EM Card	EM Card
LCD Display	16x2 standard LCD	16x2 standard LCD
Reading Distance	5~20cm (125KHz ~ 13.56MHz card)	5~20cm (125KHz ~ 13.56MHz card)
Sensing Time	1~98 seconds	1~98 seconds
Card Capacity	2000	9000
Off-line Record	10000	10000
Communication Mode	Standalone	TCP/IP, RS-232, RS-485
Network distance	---	100m, 1.2Km / RS-485
Door-open Mode	Card, Password, Card + Password	Card, Password, Card + Password
Working Voltage	12V 1A, 1.8W	12V 1A, 1.8W
Unlock current	118mA	118mA
Static current	150mA	150mA
Working current	1A	1A
Working Humidity	0%~85%	0%~85%
Product size	160x100x30 (LxWxH)	160x100x30 (LxWxH)



**RFID Standalone Access Control Unit  
ST-690**

MODEL	ST-690
ID Card Capacity	30,000
Transaction Capacity	50,000
Communication	TCP/IP, RS232/485, USB-Host
Access Control Interface	3rd Party Electric Lock, Door Sensor, Exit button, Alarm, Door Bell
Wiegand Signal	Input/Output
Standard Function	Anti-Passback, SMS
Optional Function	Mifare, HID, Workcode, Webserver
Display	LCD
Power Supply	DC 12V
Operating Temperature	0 C ~ 45 C
Operating Humidity	20% ~ 80%
Dimension (LXWXH)	143x95.5x39.5mm
Weight	800g



**Biometric Access Control Unit  
BIO-60**

MODEL	BIO-60
Finger Print Capacity	2200
Transaction capacity	30000
Hardware Platform	BIO 78
Sensor	BIO 78 Optical Sensor
Algorithm Version	BIO 78 Version 1.2
Communication	RS 232/485 ,TCP/IP
Standard Functions	SMS, DLST
Optional functions	Web Server, Work code, 9-digit user ID, Self service query, Automatic status switch, printer
Access control interface	Electrical Lock, Door sensor, Exit Button, Alarm, Door bell
Wiegand Signal	Output
Display	B&W LCD Display
Power Supply	12V DC
Operating temperature	-10°C ~ + 45°C
Operation Humidity	20% ~ 80%
Dimensions (WxHxD)	90x190x39.5mm
Gross weight	0.7Kg



**FEATURES**

- High Quality BIO 78 fingerprint Sensor
- 2200 template
- 30000 transactions
- 50 time zones, 5 groups and 10 unlock combinations
- Tamper-proof switch & alarm outputs

**Biometric Access Control Unit  
BIO-180**

MODEL	BIO-180
Finger Print Capacity	2200
Transaction capacity	50000
Hardware Platform	BIO 180
Sensor	BIO 180 Optical Sensor
Algorithm Version	BIO 180 Version 1.2
Communication	RS 232/485 ,TCP/IP, USB Host
Standard Functions	SMS, DLST, Web server, Work code, Anti passback
Optional functions	ID Mifare, HID, Schedule, 9-digit user ID, Self service query, Automatic status switch, printer
Access control interface	Electrical Lock, Door sensor, Exit Button, Alarm, Door bell
Wiegand Signal	Input & Output
Display	B&W LCD Display
Power Supply	12V DC
Operating temperature	-10°C ~ + 55°C
Operation Humidity	20% ~ 80%
Dimensions (WxHxD)	140.5x116x43.5mm
Gross weight	0.85Kg

**Biometric Time Attendance & Access Control  
BIO-78AE/ G**

MODEL	BIO-78AE/G
Finger Print Capacity	3000
Transaction capacity	100000
Hardware Platform	BIO 78
Sensor	BIO 78 Optical Sensor
Algorithm Version	BIO 78 Version 1.2
Communication	RS 232/485 ,TCP/IP, USB Host, USB Client
Standard Functions	Web server, Work code, SMS, DLST, Schedule bell,
Optional functions	selft service query, automatic status switch, T9 input ID Mifare, HID, Schedule, 9-digit user ID, printer
Display	3" TFT Color LCD Display
Power Supply	12V DC
Operating temperature	-10°C ~ + 45°C
Operation Humidity	20% ~ 80%
Dimensions (WxHxD)	189x136x44 (50 with plate)mm

**Biometric Time Attendanc & Access Control  
BIO-800**

MODEL	MODEL
Fingerprint Capacity	8,000
ID Card Capacity	10,000 (Optional)
Record Capacity	200,000
Display	3.5-inch TF Screen
Communication	RS 232/485, TCP/IP, USB-Host/Client
Standard Functions	Work code, SMS, DST, Webserver, Scheduled-Bell, Self-Service Query,
Access Control Interface	Automatic Status Switch, Photo ID, Multiple Verify Mode, T9 Input,
Wiegand Signal	Anti-passback, Camera, Biuilt-in Battery
Optional Function	3rd Party Electric Lock, Door Sensor, Exit Button, Alarm and Door Bell ID/Mifare/HID, External Printer, ADMS,WIFI,GPRS,3G
Power Supply	DC 12V 3A
Verification Speed	≤0.5 sec
Operating Temp.	0 °C -45 °C
Operating Humidity	20%-80%
Dimension	225.2*166.0*46.3mm (Length* Width*Thickness)
Net Weight	2.05 Kg

**FEATURES BIO-180**

- High Quality BIO 180 fingerprint Sensor
- 2200 template
- 50000 transactions
- 50 time zones, 5 groups and 10 unlock combinations
- Tamper-proof switch & alarm outputs
- Request-to-exit & alarm contacts
- Stand-alone as well as networked operation
- TCP/IP, serial & Wiegand interfaces



**FEATURES Bio 78AE**

- Color TFT screen with GUI Interface for ease of use
- BIO 78 Optical Sensor
- Stores 3,000 templates and 100,000 transactions
- Fingerprint and/or PIN
- Integrated proximity or smart card reader (Optional)
- Built in RS 232/485 , TCP/IP port
- Built-in USB port allows for manual data transfer when network isn't available
- Multi Language Support (English/Arabic)
- Built in bell scheduling



**FEATURES BIO 800**

- BIO 800 Optical Sensor
- Stores 200,000 templates
- Fingerprint and/or PIN Face
- Integrated proximity or smart card reader (Optional)

