



## Specification

## V90 Biometric Fingerscanner

<b>Connectivity</b>	<b>Ethernet</b>
Application-level protocols	HTTP & HTTPS
Firmware upgrades	Transfers FTP based, XML based configuration or manually by USB memory insertion
Connectivity alternatives	RS485, RS232, USB, Wiegand (Serial Baud rates: 300 to 1.15200 bps)
<b>Ethernet data transfer rate</b>	<b>10 Mbps/100 Mbps configurable or automatic</b>
Data link protocol	Ethernet, Fast Ethernet
Power supply	Power Over Ethernet (optional 12V power pack), Power usage: <300mA peak
<b>Sensor</b>	<b>High Resolution (Native 640X480), Auto-On finger detect, C-MOS</b>
	<b>Ambient light &gt;5000 Lux (or 50000 with "Smart Capture" algorithm)</b>
Scanner (sensor) lens	High strength solid tapered material up to 10mm thick, high strength, high durability, scratch and damage resistant lens
<b>Verification options</b>	<b>ID only, ID &amp; Finger, ID &amp; PIN, Finger only (Finger = Biometric template)</b>
Enrolment time	Approx 1 second (single template) plus user navigation of menus
Verification time	Approx 1 second
False rejection rate (FRR)	Administrator defined (typically less than 0.013)
False acceptance rate (FAR)	Administrator defined (typically less than 0.0001)
Allowable finger rotation	+/- 18 degrees
Latency detection	Yes
Template size	Various supported, default 1275 bytes
<b>Template storage capacity</b>	<b>Dependant on template type used: If ANSI standard: 32,000 default</b>
Template type	ANSI (ISO/IEC 19795-4 interoperability standard)
Transactions database	USB Memory backup
Algorithm	Identix L1 FIPS201 PIV certified (ANSI/NIST)
Time zones	30 (Access Control) including 2 special use time zones
<b>Door relay</b>	<b>10 A, 250 V (optional)</b>
Monitored outputs	6 (optional)
Monitored inputs	4 (optional)
ASCII and wiegand in	Yes (optional)
Clocked data output (two wire)	Yes
<b>Internal operating system</b>	<b>Linux</b>
Processor	Ingenic 400 Mhz processor
Screen	Liquid Crystal Display (LCD), 2 line, Ultra bright
Keypad	Numeric with menu keys, water resistant, high vandal resistance, flat tactile
Tamper control	Wall-remove alarm switch monitor, and optional casing open alarm monitor
External casing	Polycarbonate monocot shell (extremely high strength)
<b>Dimensions</b>	<b>168 x 165 x 95mm (W x H x D)</b>
Weight	800g
Ingress protection (IP) rating	IP50
Operating temperature	-10 to 50 degrees Celsius

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