

Synel Facial Recognition Terminal SY-Face



The most sophisticated recognition solution - AT A GLANCE!

Synel's facial recognition terminal, SY-Face, is an embedded face recognition system with leading "Dual Sensor" Face Recognition Algorithm, which is applicable for time attendance and access control applications.

The SY-Face is a time and attendance and access control terminal that uses face recognition technology to instantly identify users. The SY-Face provides a touch-free, hygienic alternative to fingerprint and hand readers, while still eliminating "buddy punching" and the need for cards or badges. Users simply look at the device and within seconds they are identified and either clocked in for work or granted secure access.

- Accurate
- Dependable - Successfully deployed in challenging real time environments
- Trackable - The only biometric method where the transaction records can be visually confirmed
- Contactless - Non-intrusive, a non-contact verification process
- User-friendly
- Reliable performance
- Multi factor authentication



Benefits

- Accurate and fast Identification
- Contactless authentication for the ultimate in hygienic conditions
- Voice prompt
- The system can work in different light conditions, even in the dark
- Incident trackable for security with photo captured by a camera

Technology Comparison

RFID recognition	<ul style="list-style-type: none">● Can be lost● Less secure - worry about fake access or buddy punching● Extra cost to pay for badge or paper card
Fingerprint or hand recognition	<ul style="list-style-type: none">● Contact identification is unhygienic● Less applicable● Less accurate● Less secure● Cannot capture picture for tracking after identification
Iris recognition	<ul style="list-style-type: none">● Less user-friendly - people feel nervous during enrollment or authentication● Cost is much higher as iris recognition needs a special camera
Vein recognition	<ul style="list-style-type: none">● No contactless authentication● Less applicable - need to look & touch● Cost is much higher as vein recognition needs a special camera
Facial recognition	<ul style="list-style-type: none">● Fast identification● More accurate and secure● User-friendly● Contactless authentication - promotes hygiene

Applications

Time & attendance and access control applications for:

- Airports
- Customs
- Hospitals, clinics and health centers
- Large manufacturing companies
- High security sites
- Schools, high schools, universities

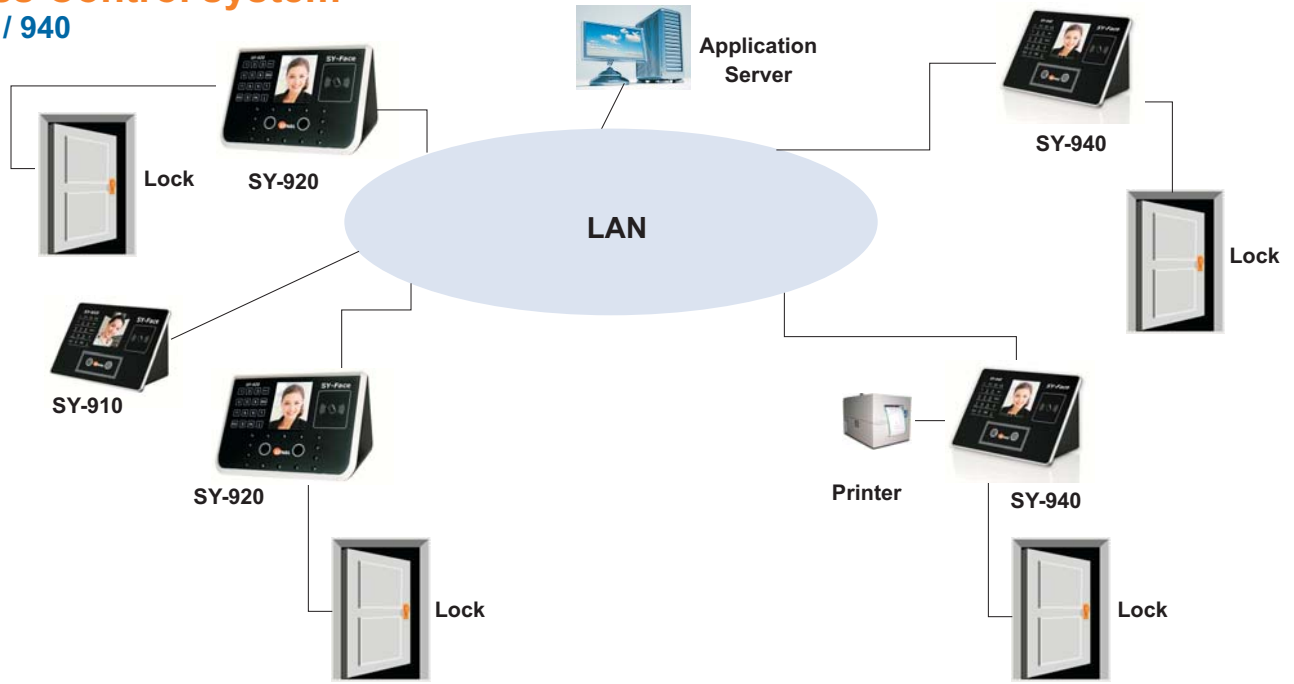
Technical Specifications



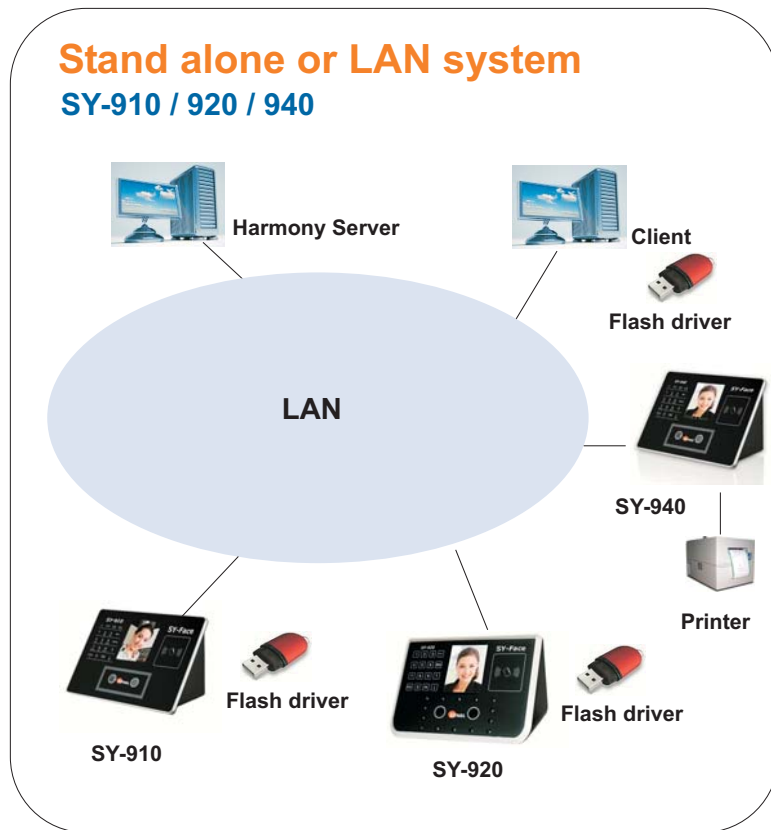
	SY-910 T&A market for small businesses	SY-920 T&A and access control market for medium to large businesses	SY-940 T&A and access control market for medium to large businesses
Processor	TI DM 644 CPU 594 MHz	TI DM 644 CPU 594 MHz	TI DM CPU 600 MHz
User capacity	500	500 (1400- users optional)	1000 face users 5000 cardusers on 1:N matching)
Record capacity	150,000 records	150,000 access control records	150,000 records
Recognition algorithm	Dual Sensor™ V2.0	Dual Sensor™ V2.0	Dual Sensor™ V3.0
Sensor	Specialized double sensor	Specialized double sensor	Specialized double sensor
Verification method	Face, PIN & face	Face, PIN & face, card, card & photo, card & face	Face, PIN & face, card & face, card, card & photo,
Verification speed	Less than 1 second (1400 users)	Less than 1 second (1400 users)	Less than 1 sec. (1000 users) on 1:N matching
keyboard	4*4 touch keypad	4*4 touch keypad	5*4 touch keypad
LCD	3.5" TFT color screen, 65,000 bright color, 320*240 resolution	3.5" TFT color screen, 65,000 bright color, 320*240 resolution	3.5" TFT color screen, 65,000 bright color, 320*240 resolution
Communication method	TCP/IP, USB host	TCP/IP, USB host	TCP/IP, USB host
Power	12V DC, working current 500 mA	12V DC, working current 500 mA	12V DC
Environment light	0-5000 Lux	0-5000 Lux	0-5000 Lux
Working distance	30-80 cm	30-80 cm	30-80 cm
Working temperature	0-40°C	0-40°C	0-40°C
Working humidity	20%-80%	20%-80%	20%-80%
Size	200* 95* 115* mm	200* 95* 115* mm	230* 105* 130* mm
Weight	505 gr	505 gr	600 gr
Installation method	Wall mounting	Wall mounting	Wall mounting
Security image capacity	-	4 GB SD card, 70,000 images	4 GB SD card, 70,000 images
Card recognition	-	EM of Mifare card (optional)	Standard EM, optional Mifare or HID
Attendance features	-	-	Scheduled bell, workcode, daylight saving
Date management	-	-	User-inquiry, auto-uploading
Interface for AC	-	Relay for door lock	Built-in relay contact door lock, door sensor, exit button
Security alarm	-	Tamper alarm	Tamper /reject alarm, door sensor alarm
Wiegand in & out	-	Standard Wiegand 26/34 output,	User-defined Wiegand 26/34 output,
Certification	CE, FCC class and RoHS	CE, FCC class and RoHS	CE, FCC class and RoHS
Printer connection	-	-	YES (RS-232)



Access Control system
SY-920 / 940



Stand alone or LAN system
SY-910 / 920 / 940



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