

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

## Applications

Time & attendance and access control applications for:

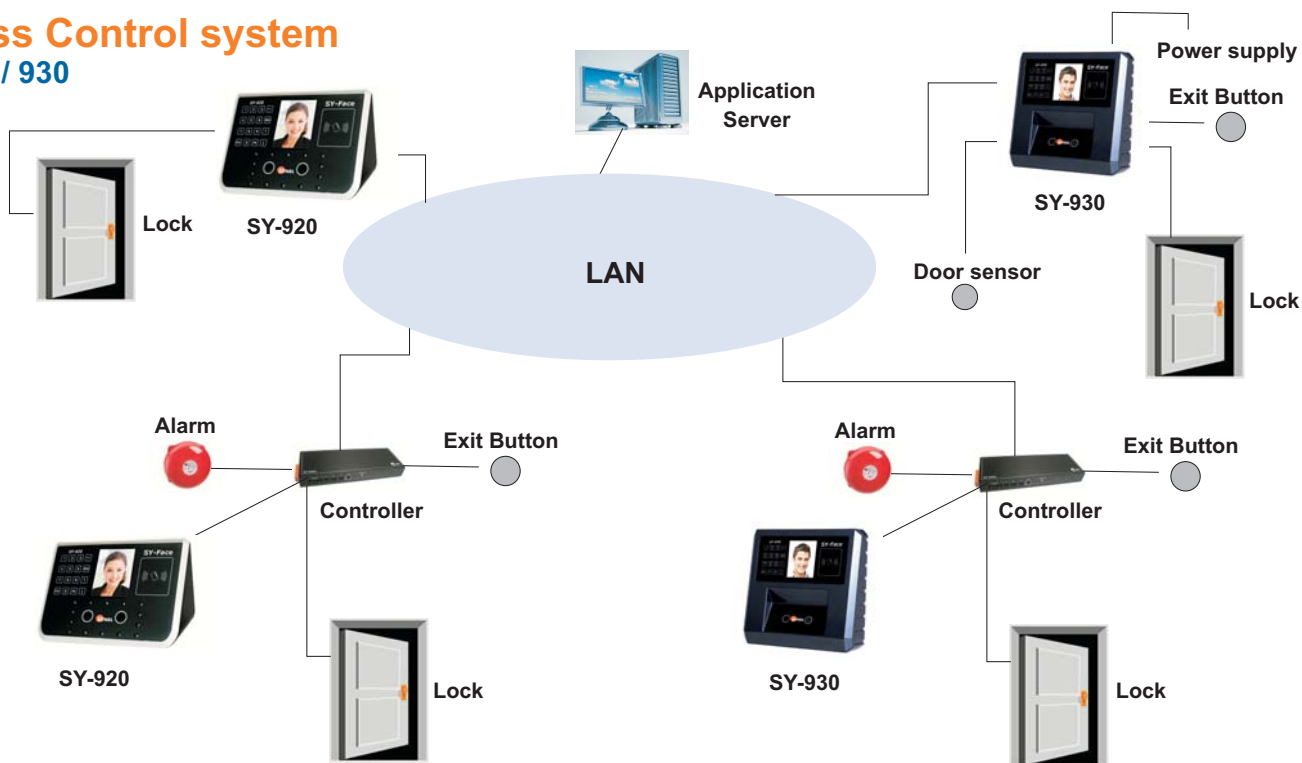
- Airports
- Customs
- Hospitals, clinics and health centers
- Large manufacturing companies
- High security sites
- Schools, high schools, universities

## Technical Specifications



|                                  | <b>SY-910</b><br>T&A market for small businesses                     | <b>SY-920</b><br>T&A and access control market for medium to large businesses | <b>SY-930</b><br>T&A and access control market for special industries of high level security |
|----------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Processor                        | TI DM 644 CPU 594 MHz                                                | TI DM 644 CPU 594 MHz                                                         | TI DM 644 CPU 594 MHz                                                                        |
| User capacity                    | 500                                                                  | 500 (1400- users optional)                                                    | 500 (1400- users optional)                                                                   |
| Record capacity                  | 150,000 records                                                      | 150,000 access control records                                                | 150,000 access control 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, card & face                                                          |
| Verification speed               | Less than 1 second (1400 users)                                      | Less than 1 second (1400 users)                                               | Less than 1 second (1400 users)                                                              |
| keyboard                         | 4*4 touch keypad                                                     | 4*4 touch keypad                                                              | 4*4 touch keypad                                                                             |
| LCD                              | 3.5" TFT color screen,<br>65,000 bright color,<br>320*240 resolution | 3.5" TFT color screen,<br>65,000 bright color,<br>320*240 resolution          | 3.5" TFT color screen,<br>65,000 bright color,<br>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, working current 500 mA                                                               |
| 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                                                              | 233* 74* 227* mm                                                                             |
| Weight                           | 505 gr                                                               | 505 gr                                                                        | 905 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)                                                  | EM of Mifare card (optional)                                                                 |
| Security alarm                   | -                                                                    | Tamper alarm                                                                  | Tamper alarm                                                                                 |
| Output for access control system | -                                                                    | Standard Weigand 26/34 output, built-in relay                                 | Standard Weigand 26/34 output, built-in relay                                                |
| Certification                    | CE, FCC class and RoHS                                               | CE, FCC class and RoHS                                                        | CE, FCC class A and RoHS                                                                     |

## Access Control system SY-920 / 930



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

