



2D
EYE THERMAL



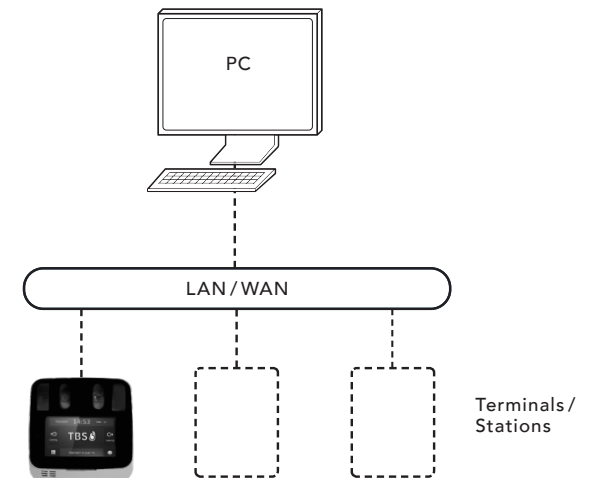
Thermal Sensor
Module

IRIS
RECOGNITION

2D EYE THERMAL

Hybrid iris and face recognition including an additional thermal camera for body temperature measurement providing high security and multi-functionality at point of access.

- Iris and face technology
- Additional thermal sensor
- Access Control, Time and Attendance (T&A)
- Indoor use
- Surface mount
- High security level
- Excellent identification performance
- Enrollment on terminal
- Identification or verification
- Medium to large-sized user groups
- Personalizable touchscreen
- Variable configuration and customizing
- Inclusive MiFare / DesFire RFID reader
- Stand-alone and network capability
- Hygienic for sensitive applications

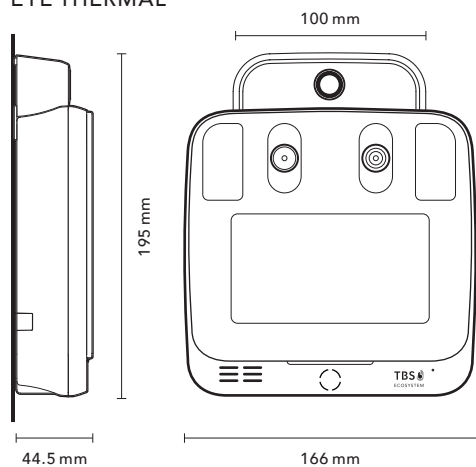




THERMAL SENSOR SPECIFICATIONS

| | |
|----------------------------|-------------------------------------|
| Thermal sensitivity | <50mk (+/- 0.05 deg. C) |
| Calibration | Only once |
| Alarm setting | Configurable (typically 1.9 deg. C) |
| Thermal imaging | Process displayed on LCD |
| Digital & power connection | USB (internal) |
| Certifications | CE |
| Operating temperature | -20 to 60 deg C |
| Waterproof | Yes |

2D EYE THERMAL



Wall mount

Touchless Biometric Systems AG
 Rietbrunnen 2
 8808 Pfäffikon SZ
 Switzerland
 tbs@tbs-biometrics.com
 www.tbs-biometrics.com

1 = Extendable
 •² = Indoor use only
 •³ = Mifare / Desfire only
 (•)⁴ = Required if not sheltered
 (•) = Optional
 (2)⁵ = Requires internal relay board
 (1)⁶ = Relay Type – 'Normally open only'
 7 = Supported bands:
 LTE FDD: B1/B3/B7/B8/B20/B28A,
 WCDMA: B1/B8, GSM: B3/B8

| | | 3D ENROLL | 3D TERMINAL | 2D EYE | 2D EYE THERMAL | 2D ENROLL | 2D+ TERMINAL | 2D+ IP65 TERMINAL HEAVY DUTY | 2D TERMINAL | 2D STATION | 2D TIME |
|----------------|-----------------------------|-------------|---------------------|----------------|----------------|-------------|---------------------|------------------------------|------------------|------------------|----------------|
| Applications | Access Control | | • | • | • | | • | • | • | • | |
| | Time & Attendance | | • | • | • | | • | • | • | in/out | • |
| Sensor | Touchless, 3D-Multiview | • | • | | | | | | | | |
| | Iris | | | • | • | | | | | | |
| | Thermal camera | | | | • | | | | | | |
| | Capacitive Touch | | | | | • | | | • | • | • |
| | Multispectral | | | | | | | • | | | |
| User Interface | 9.0" Touchscreen | | | | | | | | | | • |
| | 5.0" Touchscreen | | • | • | • | | • | • | | | |
| | 3.5" Touchscreen | | | | | | | | • | | |
| | RFID | | (•) | • ³ | • ³ | | (•) | (•) | (•) | • | (•) |
| | PIN | | • | • | • | | • | • | • | | • |
| | Loudspeaker | | • | • | • | | • | • | | | |
| | Beeper | | | | | | | | • | • | |
| Biometrics | Identifications (1:N) | | • | • | • | | • | • | • | • | • |
| | Verification (1:1) | | • | • | • | | • | • | • | • | • |
| | 1:N Database Size Limit | | 10'000 ¹ | 10'000 | 10'000 | | 10'000 ¹ | 10'000 ¹ | 5'000 | 5'000 | 5'000 |
| | 1:1 Database Size Limit | | 100'000 | 100'000 | 100'000 | | 100'000 | 100'000 | 100'000 | 100'000 | 100'000 |
| | FRR at FAR 1:100'000 | | <0.5% | <0.5% | <0.5% | | <1.0% | <1.0% | <2.0% | <2.0% | <2.0% |
| Communication | LAN | | • | • | • | | • | • | • | • | • |
| | WLAN | | (•) | | | | (•) | (•) | (•) | (•) | • |
| | Mobile ⁷ | | | | | | | | | | • |
| Interfaces | RS 232 / RS 485 | | • | • | • | | • | • | • | • | |
| | Wiegand | | • | • | • | | • | • | • | • | |
| | Relay Output | | (2) ⁵ | 1 | 1 | | 1 | 1 | (1) ⁶ | (1) ⁶ | |
| | I/O | | (1/1) | | | | 2/2 | 2/2 | | | |
| Security | Liveness Detection | | (•) | | | | • | • | | | |
| | Multi-level Data Encryption | | • | • | • | | • | • | • | • | • |
| | Template on Card | | (•) | (•) | (•) | | (•) | (•) | (•) | (•) | (•) |
| | Anti-tampering | | (•) | | | | (•) | (•) | (•) | (•) | |
| Conditions | Input Supply Voltage DC | 5V | 9–30V | 12V | 12V | USB | 9–30V | 9–30V | 9–30V | 9–30V | 12V |
| | Max. Power Rating | 20W | 25W | 36W | 36W | | 15W | 15W | 15W | 10W | 24W |
| | Operating Temperatures | 0° to 60° C | -20° to 60° C | 0° to 45° C | 0° to 45° C | 0° to 60° C | -20° to 60° C | -20° to 60° C | -20° to 60° C | -20° to 60° C | 0° to 35° C |
| | Humidity 10–90% | • | • | • | • | • | • | • | • | • | • |
| Mounting | Wall mount | | • ² | • ² | • ² | | • ² | • | • ² | • ² | • ² |
| | Flush mount (IP54) | | • | | | | • | | • | • | |
| | Sun protection kit | | (•) ⁴ | | | | | | (•) ⁴ | (•) ⁴ | |
| Certifications | CE | • | • | • | • | • | • | • | • | • | • |