**SUPREMA ACCESS CONTROL DEVICE - FaceLite**

**TECHNICAL SPECIFICATIONS**

2019-05-21

# PART 1 - GENERAL

The intent of this document is to specify the minimum criteria for the design, supply, installation, and commissioning of the FaceLite.

* 1. SUMMARY

1. Section includes a biometric reader and door controller with Ethernet network connectivity.
2. Product - An IP enabled biometric reader and door controller, capable of scanning and registering faces and RFID cards, managing users and controlling access.
   1. REFERENCE
3. Standards
4. FCC - Code of Federal Regulations, Title 47, Part 15, Class B
5. Conformity for Europe (CE) - R&TTE Directive 1999/5/EC
6. Korea Certification (KC)
7. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - (EC No. 1907/2006)
8. The Waste Electrical and Electronic Equipment (WEEE) - Directive 2012/19/EU
9. Bluetooth SIG
   1. SUBMITTALS
   2. QUALIFICATIONS
10. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
11. Installers shall be trained by the Manufacturer to install, configure and commission the access control system.
    1. WARRANTY
12. Manufacturer shall provide a limited ( ) month warranty for the product to be free of defect in material and workmanship.

END OF SECTION

# PART 2 - PRODUCTS

1. EQUIPMENT
2. Manufacturer   
   Suprema Inc.   
   17F Parkview Office Tower, Jeongja, Bundang, Seongnam, Gyeonggi, 463-863, Republic of Korea  
   Tel: 82-31-783-4502, Fax: 82-31-783-4503, [www.supremainc.com](http://www.supremainc.com)  
   support.supremainc.com
3. Model(s): FaceLite
4. Alternates: NONE
5. DESCRIPTION
6. The biometric reader and door controller (“reader/controller”) shall be an IP-enabled device capable of scanning faces and RFID cards, managing users and controlling access.
7. FEATURES
8. Time Attendance and Access Control device
9. 1.2GHz Quad Core with 1GB RAM
10. Live face detection technology
11. TCP/IP, RS-485, Wiegand, TTL, Relay, USB, Tamper
12. Mobile card support (NFC, BLE)
13. Multi-class RFID card reading
14. Intuitive Graphical User Interface (GUI) system
15. SPECIFICATIONS

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| **Category** | **Feature** | **Specification** |
| Credential | Biometric | Face |
| RF Option | **FL-DB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa, NFC & 2.4GHz BLE |
| RF read range | MIFARE/DESFire : 50 mm, EM/Felica: 30 mm, BLE: 50 mm  *\* RF read range will vary depending on the installation environment.* |
| General | CPU | 1.2GHz Quad Core |
| Memory | 8GB Flash + 1GB RAM |
| LCD type | 2” color TFT LCD |
| LCD resolution | 320x240 pixels |
| IR LED | 8ea (940nm) |
| Sound | 24 bit Voice DSP |
| Operating temperature | -20°C - 50°C |
| Storage temperature | -40°C - 70°C |
| Operating humidity | 0% - 80%, non-condensing |
| Storage humidity | 0% - 90%, non-condensing |
| Camera type | CMOS |
| Camera resolution | 720 x 480 pixels |
| Camera angle | IR Lens : Diagonal 58° |
| Dimension (W x H x D) | 80 mm x 160.3 mm x 71.8 mm |
| Weight | Device: 296g |
| Bracket: 41g (Including washer and bolt) |
| Certificates | CE, FCC, KC, RoHS, REACH, WEEE, BT SIG |
| Capacity | Max. User (1:1) | 30,000 |
| Max. User (1:N) | 3,000 |
| Max. Template (1:1) | 900,000 |
| Max. Template (1:N) | 90,000 |
| Max. Text Log | 5,000,000 |
| Max. Image Log | Not Supported |
| Interface | Ethernet | Supported (10/100 Mbps, auto MDI/MDI-X) |
| RS-485 | 1ch Host or Slave (Selectable) |
| Wiegand | 1ch Input or 1ch Output (Selectable) |
| TTL input | 2ch Inputs |
| Relay | 1 Relay |
| USB | USB 2.0 (Host) |
| Tamper | Supported |
| Electrical | Power | Voltage: DC 24V  Current: Max. 2.5 A |
| Switch input VIH | Min. 3V Max. 5V |
| Switch input VIL | Max. 1V |
| Switch Pull-up resistance | 4.7kΩ (The input pots are pulled up with 4.7kΩ.) |
| Wiegand output VOH | More than 4.8V |
| Wiegand output VOL | Less than 0.2 V |
| Wiegand output Pull-up resistance | Internally pulled up with 1 kΩ |
| Relay | Voltage: Max. 30VDC Current: Max. 1A, Max. 2A |
| Platform | BioStar 1 | Not Supported |
| BioStar 2 | Supported |

END OF SECTION

# PART 3 - EXECUTION

1. INSTALLER
2. Contractor personnel shall comply with all applicable state and local licensing requirements.
3. PREPARATION
4. Contractor shall avoid locating the reader/controller in a location subject to direct sunlight, dust or soot.
5. IP addressing shall be coordinated with the Owner’s responsible IT personnel.
6. STORAGE
7. The device shall be stored in an environment where temperature is in the range of -40°C - +70°C.
8. The device shall be stored in an environment where humidity is in the range of 0% - 90%, non-condensing.
9. INSTALLATION
10. The device shall be installed in an environment where temperature is in the range of -20°C - 50°C.
11. The device shall be installed in an environment where humidity is in the range of 0% - 80%, non-condensing.
12. All wires shall be run through conduit to prevent failure caused by rodent damage.
13. Connections between card readers and a door controller shall not exceed 100 meters.
14. All peripheral devices shall be grounded.
15. To avoid RF interference, a minimum separation distance must be maintained.

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| Wall thickness | Distance |
| 100 mm | 80 mm |
| 120 mm | 60 mm |
| 150 mm | 30 mm |

1. Be aware of the distance between the FaceLite and the power supply when using a separate power supply. The power supply should be installed as close as possible to the device. If not properly connected, the device may malfunction. We recommend that use 16 AWG or 18 AWG cables if the distance between the device and the power supply is too far. The distance that can be connected may vary depending on the cable specifications and installation environment.

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| Cable standard | Max. extended length |
| 16 AWG | 11 m |
| 18 AWG | 8 m |
| 20 AWG | 6 m |
| CAT5 UTP 2-Wire | 1 m |

1. DO NOT extend the length of power cable when using the power adapter(DC 12V (±10%), 2.5A).
2. EXAMINATION
3. All network connections to the reader/controller shall be tested for proper levels of performance.

END OF SECTION