USER MANUAL BIOSLIM

Bioslim

BioSingleSlim (Reader)

SMART-I ELECTRONICS SYSTEMS PVT. LTD.(An ISO 9001:2008 certified company)

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Table of Contents

Warning & Caution 3

Get started with Bioslim 4

Specification 5

Description of keys & other parts 6

How to Use 7

Keypad Menu Details 9

Mounting Plate Details 20

Bioslim Connection details 22

Bioslim Connnector wire details. 23

Bioslim Reader connection details 24

Standalone Bioslim Configuration 25

Connecting To Host Computer 26

EnrollmentProcess 29

Trouble Shooting 30

TheContainedinThisManualareSubjectToChangewithoutNoticeatAnyTime. ItisSmartI'sgoal to supplyaccurateandreliabledocumentation. Ifyoudiscovera discrepancy in this document or Need Help, please e-mail your comments to **support@smartisystems.com.**

Warning & Caution

- Ø Please handle the equipment with care. Physical Damage to the system is not covered under warranty.
- Ø Do not power on the system without reading this manual. Ensure proper power supply with Earthing.
- Ø Note down the serial number and model no. of the device for future reference and quote in all support and service requests.
- Ø To connect or interface the Card reader to the 'Bioslim' unit please refer to the Hardware Installation Guide or Manual and carefully follow the instructions. A trained technician must make the connections.
- Ø Any negligence on your part may damage the Card reader interface on the Bioslim terminal.
- Ø Mounting the unit in strong sunlight may affect user visibility of the LCD. Ensure that the LCD and LED's are clearly visible in all lighting conditions.
- Ø The fingerprint sensor glass may periodically require cleaning - use suitable glass cleaner.
- Ø Never insert objects of any kind into the unit or through the cabinet slots as they may touch voltage points and/or short circuit parts possibly resulting in fire or electric shock. Never spill liquid of any kind on the unit.
- ØWhen connecting up the Bioslim Access Controller ensure that the mains power supply is safely isolated. Power up the controller only when installation is complete.

Fire Safety and accountability Notice

When connecting card or Biometric readers to any emergency entry, exit door, barrier or elevator must provide an alternative exit in accordance with all fire and life safety codes pertinent to the installation. These fire and safety codes vary from city to city and you must get approval from local fire officials whenever using an electronic product to control a door or other barrier.

Important Instructions

- **Take the backup of the finger prints of all the users after enrollment, through the Template Upload/Download Option in Software (Refer User Manual of Software for taking finger prints backup and uploading the backup finger prints back to the Bioslim devices.)**
- **Care should be taken identifying the wires. Improper wiring may render permanent damage to the device or personal injury.**
- **Refer the color code on the Reader to connect the external weigand reader on the controller.**
- **Check the earthing at the site before installing the controllers. Normally the earthing should be between 1V to 2V only. Earthing on the higher side may damage the controller or its various other components.**

Get started with Bioslim

Included items:

Product	Image	Qty	Use
Bioslim		1	Access Control System
Power Supply		1	Supplying power for the Biometric Unit
Software CD	http://www.smartisystems.com/Software.html	1	For Device Configuration/Management & For Data Downloading
Installation Guide & Test Report		1	For referring functions keys for programming the device by keypad & Other Installation Details

Power Supply Specification:

In case you do not have the required power supply included in the package and intends to buy your own power supply use these specifications. Below given specifications should be strictly adhered to.

Device	Application	Power Supply	Input	Output
Bioslim	Access (Lock Voltage)	Universal AC Adapter Isolated i/o	110 to 230 VAC	12 V DC/ 2A (Min)

Specification

Hardware specification:

Particulars	Description
CPU	32 Bit RISC Arm
Memory	Upto Flash 8 MB
Events/Transactions	1,00,000
No. of templates in sensor	1900/19000
Operation Modes	UID/Card + Finger UID/Card only Card + Finger Card Only UID/CARD+F+ PIN UID /card +pin Card only + pin UID only + pin Finger only Card & finger
Sensor	High Quality Scratch Resistance Optical Sensor.
Communications Port	TCP/IP, weigand, RS485
Baud Rate	9600bps (Default)
Controller ID	Max 9999
Display	TFT colour display
Keypad	Capacitive Touch sense Keypad
LED	Tricolor LED Bar
Language	English
Power Supply	12 V DC/ 2A (Min)
Enclosure	IP65 ABS Plastic
Color	Silver & Black
Dimension (H X W X D) in mm	(209 x 57 x 47.02)in mm
Mounting	Wall Mounting

Sensor specification:

Particulars	Description
Type	Optical
Image Resolution	500 dpi
Enrollment Time	<1 sec
Verification Time	<1sec
Identification Time	1 sec
Template Size	384 bytes
EER/FAR/FRR	<0.1%/0.001%/0.1%
Image Size (Pixels)	272 X 320
Sensing Area (mm)	16 X 19

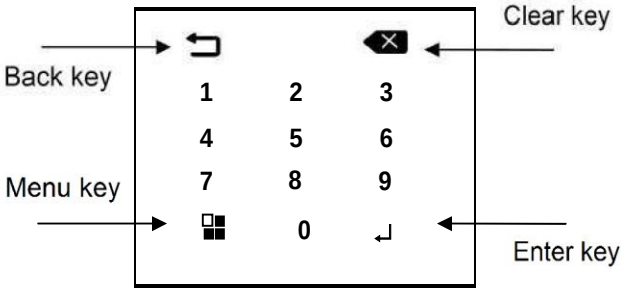
Introduction

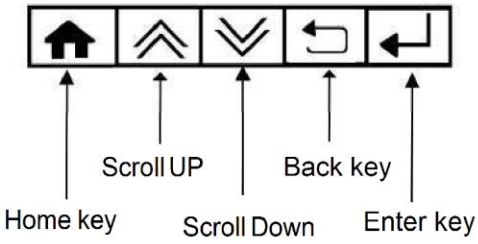
The new **Bioslim** blends loads of innovative features to streamline installation and administration for small, medium or, large business enterprises for standalone door access control deployment. **Bioslim** brings the high speed, accuracy, flexibility and user friendly interactivity. It provides intuitive and aesthetic GUI on graphical LCD with easy-to-use touch keypad.

Description of keys & other parts

1. TFT touch Screen display
2. Biometric Sensor
3. Tricolour LED Bar
4. RFId card reader
5. Menu Key

Operational keys:





Keys	Description
Numeric keys(0-9)	To access keypad functions & to enter UID for verification
	Scroll keys to select menu after admin login.
	Back Key to go back on previous screen
	To go to the home screen
	Entering into menu parameter and set the values for parameter

How to Use:

Step 1.: Enrollment Process

1. Do Admin login

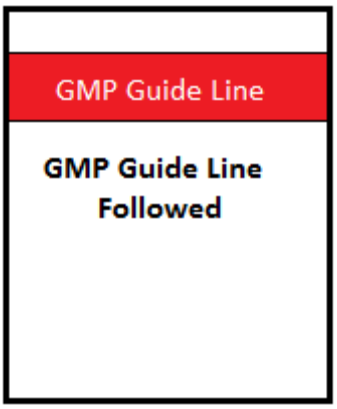
i. Press on menu key ⊞
ii. Enter admin id >> 11111(Default admin id) > press Enter .
iii. Enter password >>12345(Default password) > press Enter .

2. ADD User

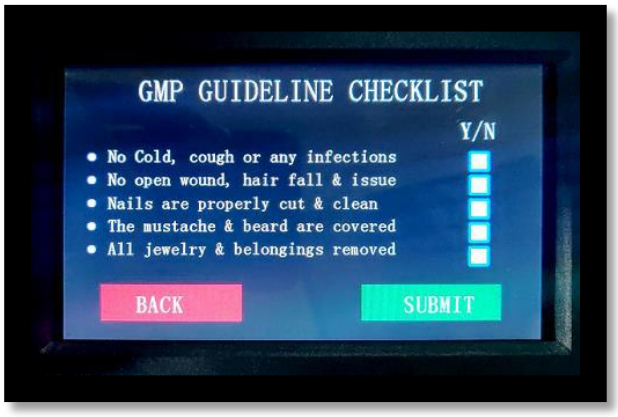
After Admin Login Success
i. Press on USER icon
ii. Add User by Enter UID > Enter >
iii. Add Finger 1 (across UID)> Press Yes>(Place Finger Twice)
iv. Add Finger 2 > Press YES or NO > Enter >
v. Logout

Step 2: Verification Process

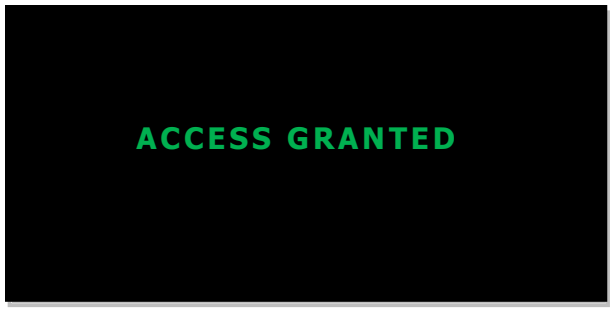
i. Enter UID and Place finger
ii. For Authorized USER, GMP guideline checklist will be displayed along with logo and long Beep.



iii. TFT display show GMP Guideline checklist.

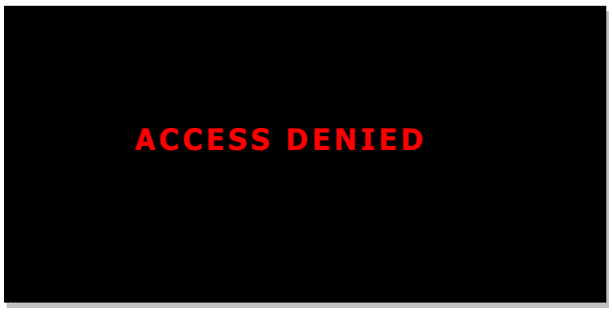


iv. After select all checklist, then click on SUBMIT tab and TFT display show access granted message.



v. Device shows Access granted and Led will turn Green.

vi. If select checklist less than five, then click on SUBMIT tab it will be show Access Denied on TFT display.



vii. Device shows no access message.

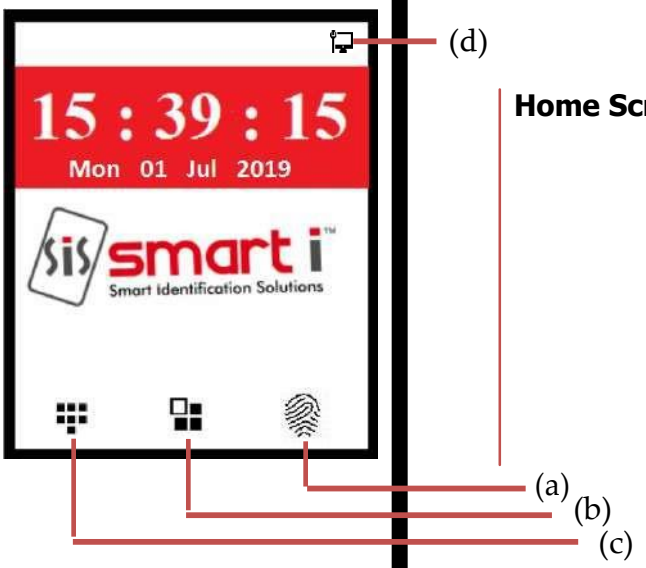
viii. For Unauthorized USER, User unauthorized message will be displayed along with logo and two buzzer beep and Led will turn Red.

Power OFF >ON and check point (i) again.

Step 3.: Network Setting

1. Press on Network icon
2. Select Network Setting > Enter
3. In this menu user can edit the various parameters such as, unit IP address, subnet mask, default gateway, server IP address …..etc.
User have to set various parameters such as,
*IP Address
*Subnet mask
*Gateway
*Server IP Address
*Local port No
*Push Server1 IP
*Push Server1 Port
*Push Server2 IP
*Push Server2 Port
4. Enter>> Reset the Device.

HOME SCREEN



Home Screen

After Power ON , these screen will be displayed as per mode selected
(a) If System>>Sensor>>Identify mode>> Enable> Thumb print symbol will be Displayed
(b) By default only Home key is displayed in normal condition
(c) If System>>Allow UID by Key >> Enable> Fig C will be displayed
(d) Provides information of LAN connectivity

LOGIN SCREEN

LOGIN SCREEN

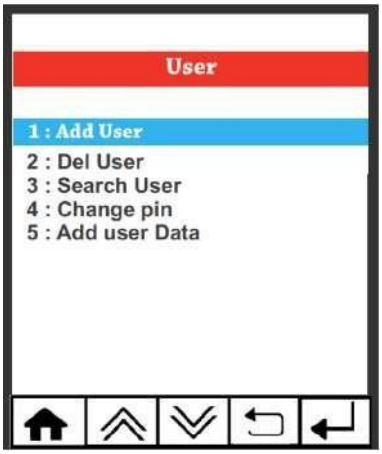
On pressing home key, Login screen will be displayed .
Enter Admin ID .:11111 and Press Enter.

Then enter Password .: 12345

ADMIN

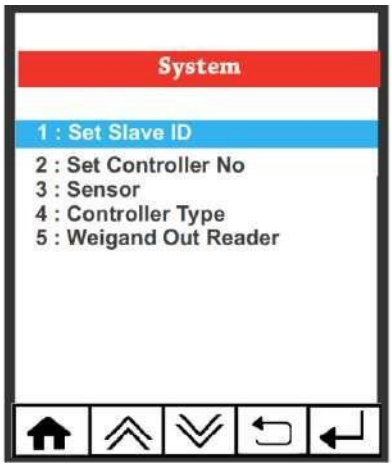
ADMIN		
1. Set Time	Select option press enter key	1) Will allow to set Time as require i. hh:mm:ss ii. hh:mm 2) Try to set invalid TIME>It will not allow to set
2. Set Date	Select option press Enter key	1) Will allow to set Time as require 2) Try to set invalid DATE>It will not allow to set
3. Add Admin ID	1) Select option press Enter key 2) Add Admin ID & Password 3) Try to Add more than its capacity	1) Admin ID should get added properly 2) Should Memory Full message if buffer is full.
4. Delete Admin ID	1) Select option press Enter key 2) Enter Admin ID & Password 3) Try to Delete un added admin ID.	1) Admin ID should get deleted and should get logged in. 2)It Should show user search fail.
5. Change Password		System should ask for old and new password

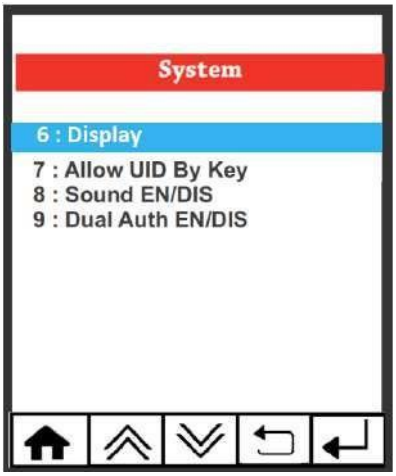
USER



USER		
1. Add User	1) Enter User ID and press enter. It will ask for finger 2)If finger is already added>Display finger exist. 3) Make card memory full and then add the card.	1) User to get added properly with proper Pin number and finger. 2) ON memory full it should show "memory full" message
2.Del User	1) Enter user ID to delete press enter. 2) Try to delete unadded UID	1) User should get deleted proper along with finger 2) "User Not Found" message should be displayed for deleting Unadded UID
3. Search User	1) Search added card 2) Search unadded card	1) Will show card number and Pin of that card 2) It will show "User Search Fail" for unadded card
4. Change Pin	1) Enter UID press# 2) Enter OLD PIN press# 3) Enter NEW PIN Press enter	1) Pin should get change properly 2) After searching that same card, properly Pin should be shown
5. Add User Data	1) Enter UID press# 2) Select option from UID/Card + Finger UID/Card only Card + Finger Card Only UID/CARD+F+ PIN UID /card +pin Card only + pin UID only + pin Finger only Card & finger	Should work as per function mention 1.UID/Card + Finger 2.UID/Card only 3.Card+Finger 4.Card Only 5. UID/CARD+F+ PIN.: If finger is place it ask for pin and access 6.UID /card +pin 7. Card only +pin 8.UID only +pin 9.Finger only 10.Card & finger : both are compulsory
6. AddFing To ID	1) Enter UID press enter 2) Place finger on sensor	proper Finger should get added and score should be shown
7. Facility Code	1) Facility En/DI 2) Show card or enter UID 3) Update facility code	Proper Facility code should be shown according to card digit.
8.DUA Search Card	1)Show Card/ Enter UID 2)Enter 0/1 EN/DI Duress 3)If **Dual authentication** is ON i. Enter card number ii. Select Admin Type iii. Enter Group NO. iv. Duress Check	If Duress is ON across any UID then Duress event is generated and access is granted **Refer Annexure C**

SYSTEM

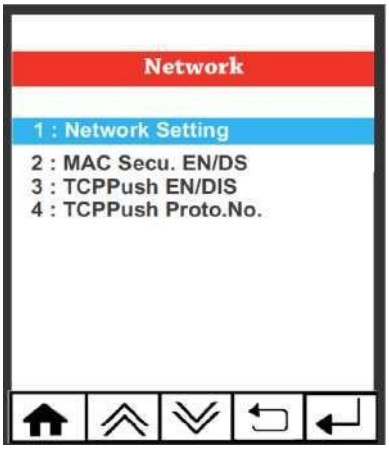




SYSTEM		
1. Set Slave ID	1) Enter Slave No from 1 to 128.	Proper Slave ID should be set with "slave ID Updated" message
2. Set Controller No.	1) Controller Number from 0 to 9999	Proper controller number should be set with "controller number Updated" message
3. Sensor **3.1 Sensor Security Level**	1) on selecting this option will see 12 different levels. 2) Select any one out of 12 levels.	Level should get set proper as per requirement **Refer Annexure A**
3.2. Identity Mode	1) On selecting this option will see 3 different option 1=Normal 2=Identify by Key 3=Auto Identify	1=Show card sensor will get enable 2=Press ((O)) key Sensor will get enable 3=Sensor will be ON continuously
3.3.Set FingerDB verify		
4. Controller Type	1) Select any one out of 11 option 1=Bio Access 2=Bio Access 2RD 3=Bio Attn 4=Bio Att 2rd 5=Bio Attn No chk 6=Bio Att NO chk2rd 7=Bio Att SCNOchk 8=Bio Attn NO Chk3RD 9=Deny List 10=Bio no Chk 11=Deny list bio no chk	controller should set properly and should function accordingly. 1=Bio access= Relay trigger() single reader 2=Bio Access 2RD= 3=Bio Attn= relay won't trigger 4=Bio Att 2rd 5=Bio Attn No chk=don't Check holidays 8=Deny List=Access transaction

5. Weigand Bits	**1) Select any one option out of 7 option** **1=Weigand 26** **2=Weigand 32** **3=Weigand 34** **4=Weigand 26 or card** **5=Weigand 32 or card** **6=Weigand 26 or transparent** **7=Weigand 32 or transparent**	**This applicable only in weigand out. The bit will send to controller according bit set.**
6.Display **i. Disp Brightness**	To vary the brightness level from zero to 10	To set display brightness Min value - 0 Max value - 10
ii. Disp. Sleep EN/DI	1.Enable 2.Disable	Given to enable/disable auto display sleep (i.e. brightness level set to 0) after settable time in sec.
iii. Set Disp Sleep Time	After Setting the Time the display brightness will change to Zero	Display will get to brightness level 0 And after single touch on display or Card swipe or finger swipe the brightness of display will get to its set value
iv. Card Digit Display	1) Select any one out of 3 option 5Digit 8Digit 10Digit	Card Number will be displayed accordingly for 5,8 or 10 digit.
iv. Display User Name Type	1) Select any one out of 3 option a.UID only b.Name only c.UID and Name	On showing card,Card details will be displayed as per selection.
7.Allow UID by Key	1.Enable 2.Disable	If Enable then menu will be displayed on Home screen.
8.Sound EN/DI	1.Sound VID/IVID 2.Keypress 3.USER Error 4.All Sound	1.Only sound of authorised and unauthorised user will be played. 2.Only sound of keypad will be played 3.Only for any error sound will be played 4.All Sound EN 5.All Sound DIS
9.Dual auth	Enable / Disable option for Dual authentication	To Use the system in dual auth mode enable dual auth and configure using **dua search card option.**

NETWORK

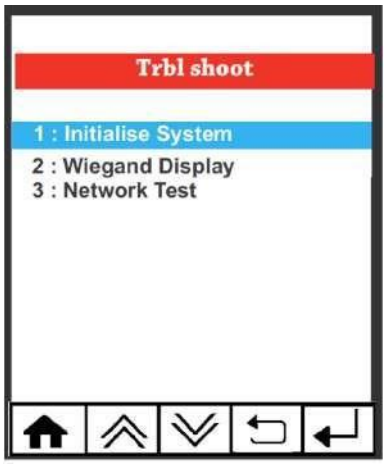


1. Network Setting	**1) Select accordingly to make changes** **i. Ip address** **ii.Subnet mask** **iii. Gateway** **iv.Local server port no.** **v. Push Server IP** **vi.Push Server Port**	**All network should get set properly check after off/on unit.** **Refer Annexure B**
2.Mac Secu. EN/DS	Enable MAC Security	Only Device with set MAC address can download the transaction.
3.TCP Push EN/DI		Enable TCP push to download transaction on register ip address
4.TCP Push Protocal number		As per selection transaction will be pushed and Del.

DOOR

DOOR		
1. Door open Time	1) Set Door Open time. By default will set to 5 sec	We can enter the desire door open time and it shows saved message
2. Shared DOTL	1) En/Dis Share DOTL Raeder no:1 ReaderNO:2 Reader no:All	**By Default Shared DOTL is not in used**
3. Reader IN/OUT	1) Reader Normal 1=Reader In 2=Reader Out 3=Reader IN/OUT Toggle 4=Scheduled INOUT 5=As weigand out	1. Reader Works as Normal 2. For reader in or reader out we require 2 different controller. 3. Reader IN/OUT N.A. 4.Schedule reader 5.As weigand
4. Fire-Tamper EN/DS	1) Disable All 2) Enable Fire 3) Enable Tamper 4) En Fire Tamper 5) En Intrusion 6) En Fire Intrusion 7) En Intrusion,Tamper	5) En Intrusion =NA 6) En Fire Intrusion =NA 7) En Intrusion,Tamper = NA

TROUBLESHOOT

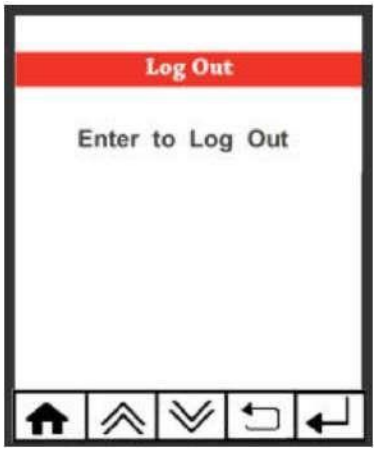


TROUBLE SHOOT		
1. Initialize System	00 Delete all data 01 Delete Transaction 02 Delete All Users 03 Set All Default 04 Delete Sys. Info 05 Delete Time Zone 06 Delete Holiday 07 Delete Facility Code 08 Delete Door info 09 Delete Admin IDs 10 Reset System 11 Delete Cards Only 12 Delete all fingers 13 Delete all expt N/W 14 Initialize Update	Should have show all message properly on display.
2. Weigand Display	Select option Press enter key	It shows Reader No, Weigand Bits of particular card
3. Network Test	1) Gateway/LAN Test 2) Internet Test	Check the device is connected to network or not
4. Verify Finger DB	Select to enable or disable this option	When kept disable Should not check the duplicate finger while adding the card

DEVICE INFO

Device Info		
Display All Parameter		Shows All parameter related to system.
Disp Useful Parameter	Model Number Unit ID Controller No Card Buffer Used Card Buffer Bal. Card Buffer Trans Buffer Used Trans Buff Bal Trans Buff Templates supp. Used Templates Bal. Template Serial No Manufacturing Date FW Compile Date Firmware Version Hardware Version Controller Type Reader Type MAC address	

LOGOUT



LOGOUT.	Press enter	after pressing enter system should log out

Annexure A

Security level setting

Security level specifies FAR (False Acceptance Ratio). If it is set to “Level 2” i.e. 1/100,000, it means that the probability of accepting false fingerprints is 1/100,000.

The following table shows the relationships between the automatic security levels and the number of enrolled templates. For example, when the security level is Automatic Secure and the number of enrolled templates is 500, the actual FAR for identification will be 1/10,000,000. The security level for verification is not changed.

Automatic Level	Verification (1:1)	Identification (1:N)			
		1 ~ 9	10 ~ 99	100 ~ 999	1000 ~
Normal	1/10,000	1/10,000	1/1,00,000	1/10,00,000	1/1,00,00,000
Secure	1/1,00,000	1/1,00,000	1/10,00,000	1/1,00,00,000	1/10,00,00,000
More Secure	1/10,00,000	1/10,00,000	1/1,00,00,000	1/10,00,00,000	1/10,00,00,000

(NOTE: The values of FAR in Security level are suggested by Suprema)

Annexure B

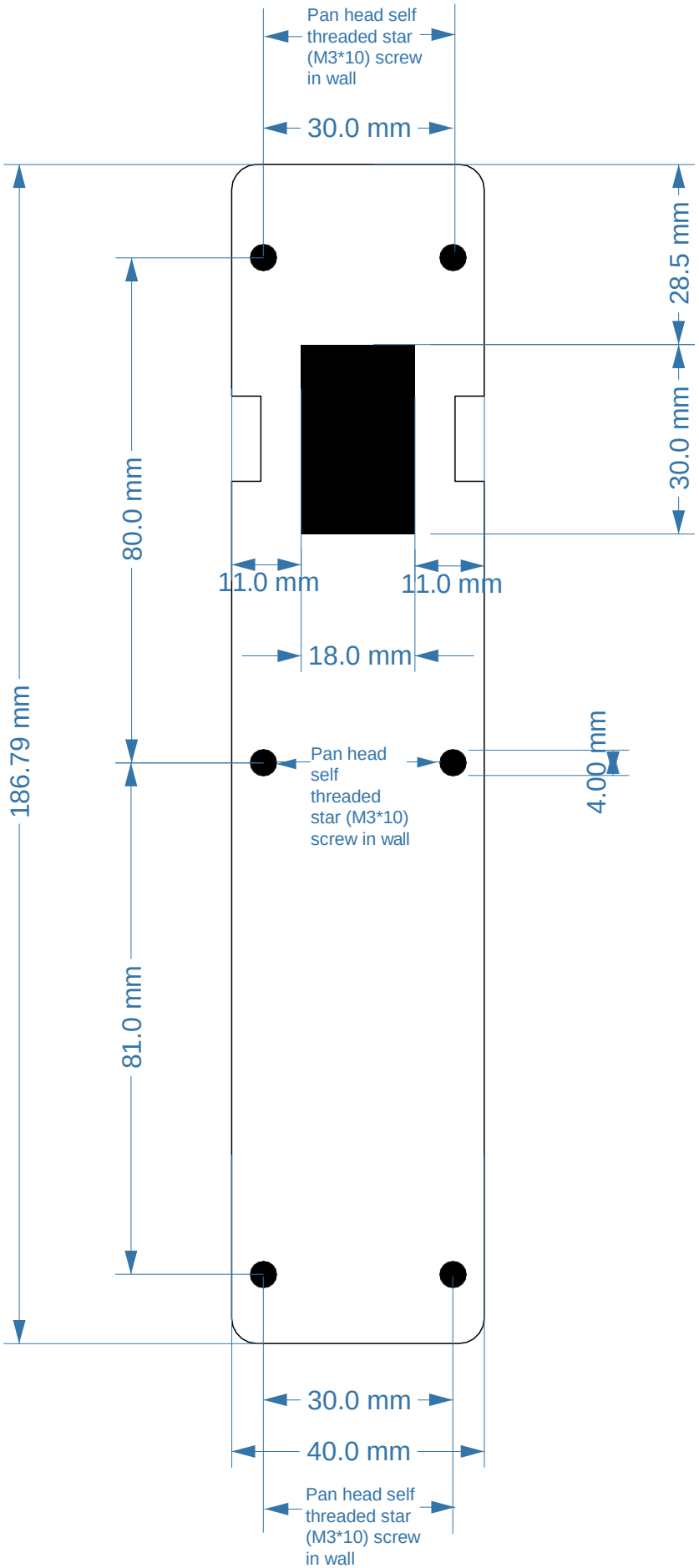
Network setting

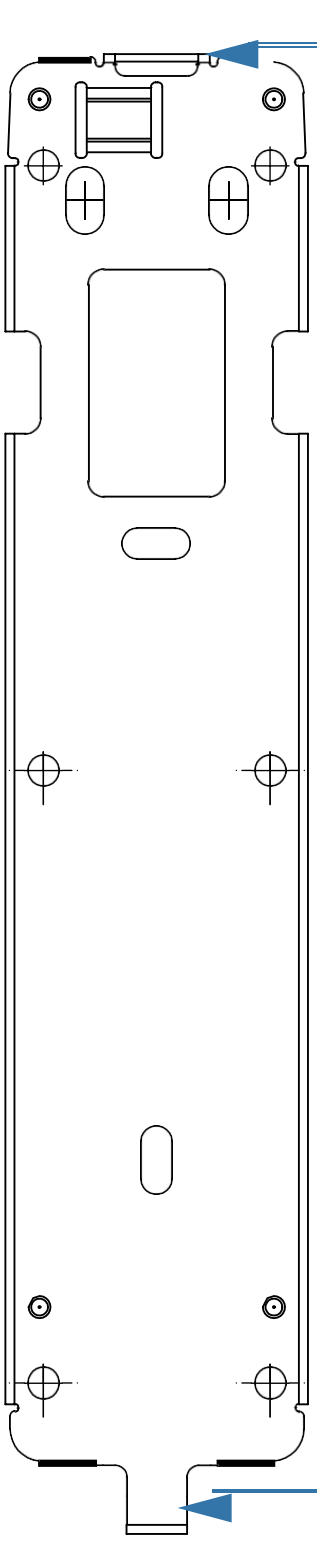
Sr. No.	Network Setting Parameters	Description
1.	**IP Address**	Set IP address to device for TCP/IP communication
2.	**Subnet Mask**	As per your network.
3.	**Gateway**	As per your network.
4.	**Local TCP Port**	For device indentification and communication
5.	**Local UDP Port**	For device indentification and communication.
6.	**Server IP**	Set Server IP Address, it is used when MAC security feature is Enable.
7.	**PUSH Server1 IP**	Set Server IP Address where we want to push transaction data using TCP.
8.	**PUSH Server1 Port**	Set Server Port Address where we want to push transactiondata using TCP.
9.	**PUSH Server2 IP**	NA
10.	**PUSH Server2 Port**	NA
11.	**UDP PushServer IP**	Set Server IP Address where we want to push transaction data using UDP.
12.	**UDP PushServer Port**	Set Server Port Address where we want to push transactiondata using UDP.
13.	**HB Server IP**	Set Server IP Address where we want to push Heart Beat data. Device sendsall important information to this server.
14.	**HB Server Port**	Set Server Port Address where we want to push Heart Beat data.
15.	**HB Time**	Set Heart Beat Time,this is time delay after which controller send Device Information to HB Server IP.

Annexure C: Procedure for configuring users for Dual Authentication

1) Firstly You have to Login→Press Home key →Enter Admin ID " 11111"→Press Enter → Password "12345"→Press Enter.
2) Enroll the finger for Users from User menu.
   Go in User menu→Enter in Add user →Show card or Enter UID→ press enter → Press YES → Press enter → Sensor get ON →Place Finger →it will Display Finger Added with …%.
3) Repeat Step no.2 for Number of Users to added in Unit.
4) Now to config dual user go in User menu & select „DUA Search Card".
   Show card or enter UID→Press Enter.(Make sure Dual authentication is ON)
5) Now enter 01 for Master & 00 for normal user. Press Enter.
   Assign Group no. Press Enter.
6) Press "01"→ to enable Duress & Press "00"→ to Disable Duress
   Press enter (it will go for next card number)

Mounting Plate Details




Notch to Fit the Device
Notch to Fit the Device

STANDALONE
BIOMETRIC
ACS CONTROLLER
(MASTER)

12V DC
Power Supply

CONTROLLER

POWER (A)
12V
GND

TFT Connection
D+
D-

ETHERNET (C)
TX+
TX-
RX+
V+
RX-
V-

EXIT RDR (D)
12V
GND
D0
D1
BZ
LED
TAMP

DOOR LOCK & FIRE (E)
12VO
GND
NO
NC
C
EG
MC
FIRE
DOTL

TCP/IP

CAT5e / CAT6 FOR
LAN COMMUNICATION

Network Switch

Weigand Out

EXIT CARD READER

OR

(SLAVE)
BIOMETRIC READER

CAT5e / CAT6 FOR LAN
COMMUNICATION

STRIKE LATCH

GND

EML

GND

+VE

EXIT SWITCH

DOOR MAGENTIC CONTACT

OR

DOTL
BUZZER

FIRE PANEL

EMERGENCY SWITCH

Bioslim Connector WIRE details

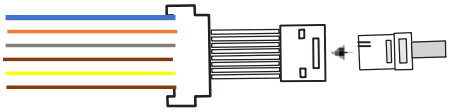
A Power

PIN	PIN DESCRIPTION	WIRE
1	POWER + (12Vdc)	RED
2	POWER -	BLACK

B TFT

PIN	PIN DESCRIPTION	WIRE
1	D+	GREEN
2	D-	WHITE

C Ethernet

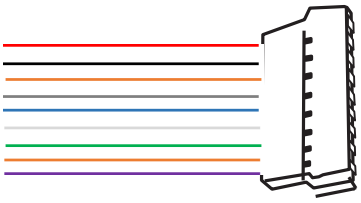


PIN	PIN DESCRIPTION	WIRE
1	TX+	BLUE
2	TX-	ORANGE
3	RX+	GREY
4	V+	BROWN
5	R-	YELLOW
6	V-	BROWN

D Exit Reader

PIN	PIN DESCRIPTION	WIRE
1	12V	RED
2	GND	BLACK
3	D0	GREEN
4	D1	WHITE
5	BUZZER	YELLOW
6	LED	BROWN
7	TAMP	VOILET

E Door and Lock



PIN	PIN DESCRIPTION	WIRE
1	12V	RED
2	GND	BLACK
3	NO	ORANGE
4	NC	GREY
5	C	BLUE
6	EG	WHITE
7	MC	GREEN
8	FIRE	ORANGE
9	DOTL	VOILET

BIOMETRIC READER

12V DC Power Supply

TCP/IP

For Template management

CAT5e / CAT6 FOR LAN COMMUNICATION

Network Switch

(A)

12V

GND

POWER

(B)

D+

D-

TFT Connector

(C)

TX+

TX-

RX+

V+

RX-

V-

ETHERNET

READER

WGND OUT

(D)

12V

GND

D0

D1

BZ

LED

TAMP

12V

GND

D0

D1

BZ

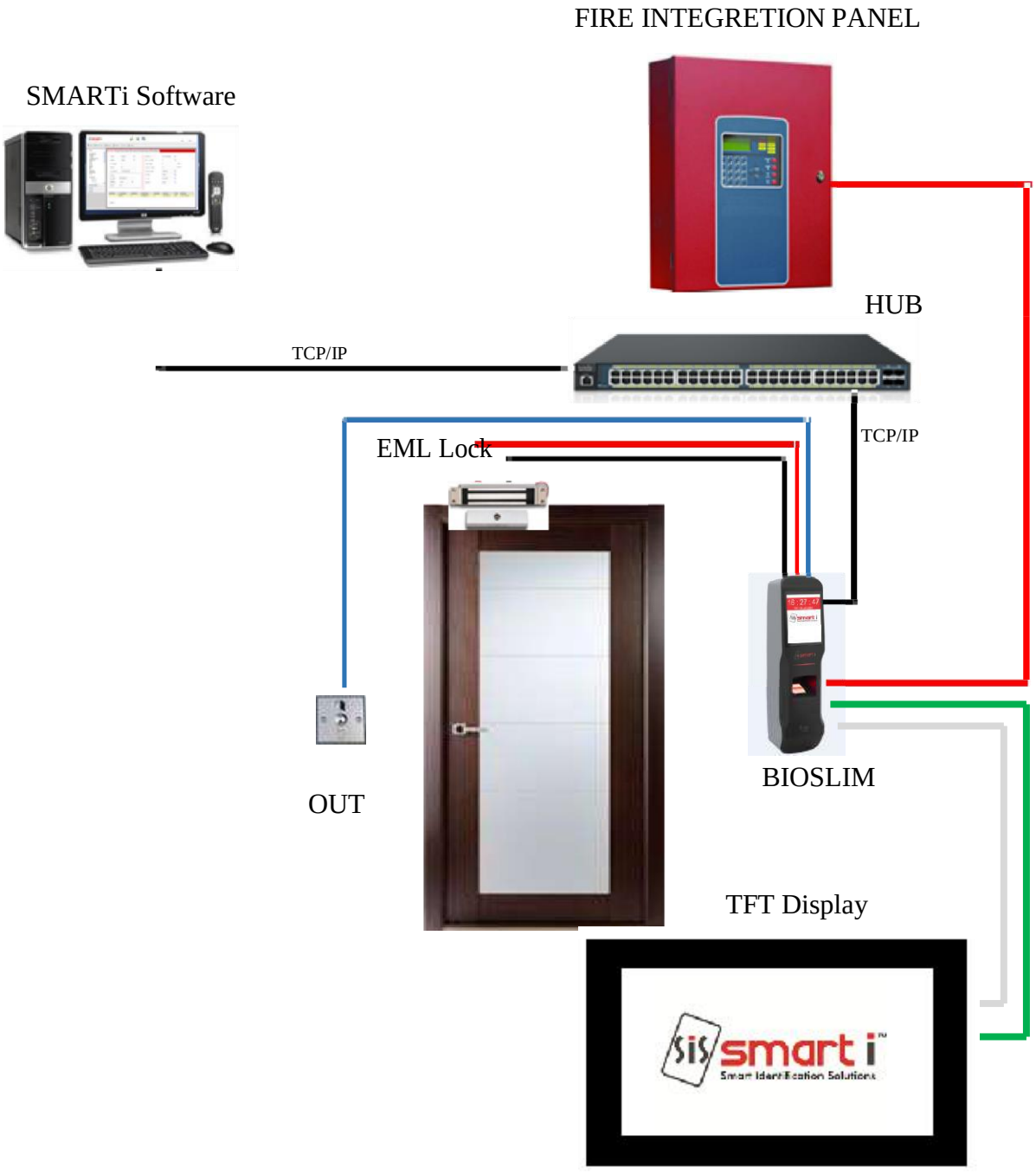
LED

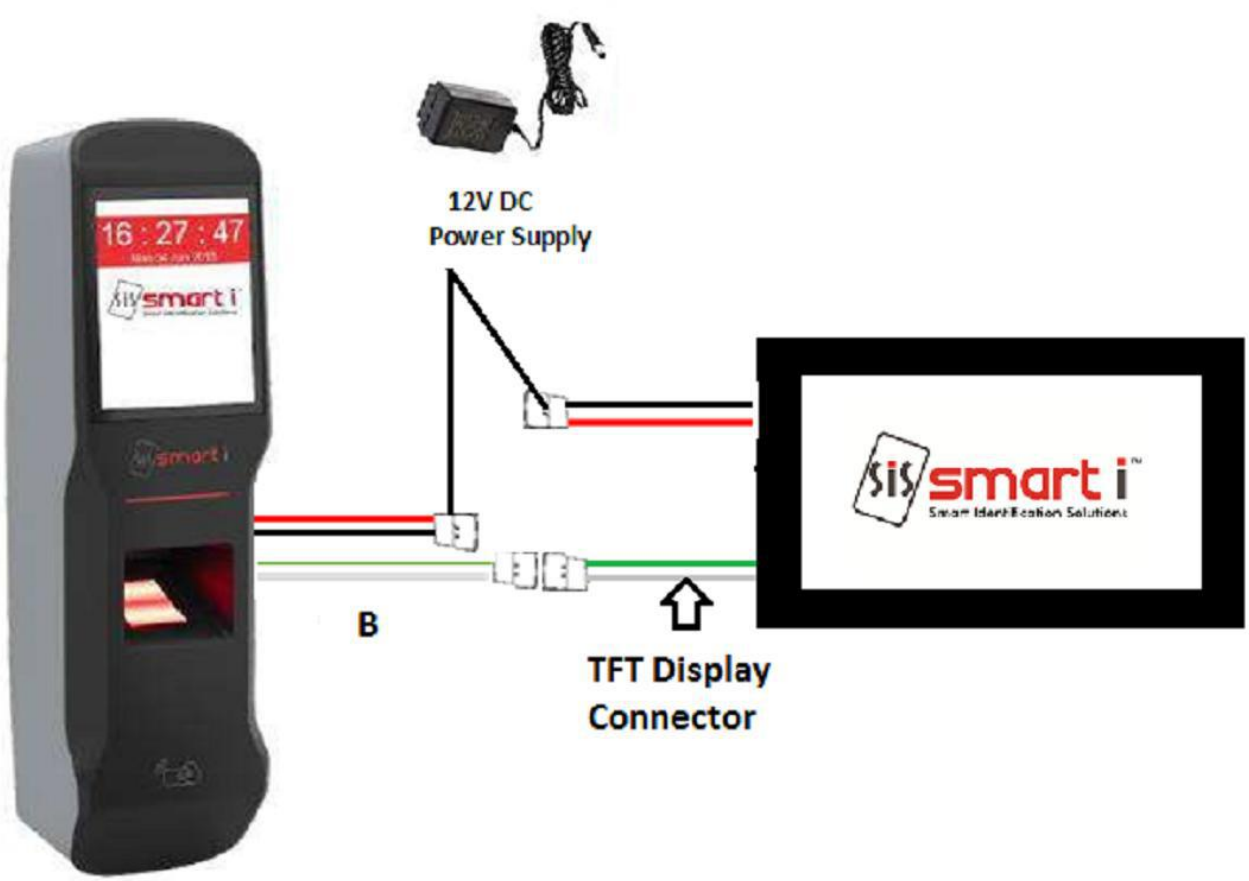
TAMP

WGND IN

Access Control Device

STANDALONE BIOSLIM CONFIGURATION

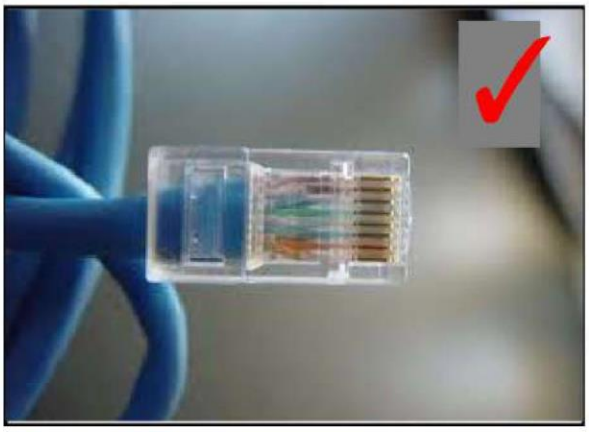



16 : 27 : 47
12V DC
Power Supply
B
TFT Display
Connector

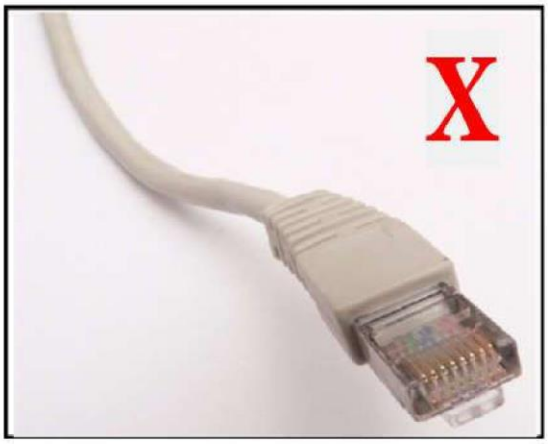
Connecting To Host Computer

The Bioslim can be connect to the computer by TCP/IP (Ethernet).
Note: Use proper manually crimped **CAT5** cable, Refer bellow images, **Manually**

Crimped RJ-45



Readymade RJ-45



The Bioslim series can be connected on the LOCAL AREA NETWORK (LAN) Or Wide Area Network (WAN) as under:

Connecting single controller directly to a PC Using TCP/IP (CAT5) Network Cable

Step 1 Use the crossover network cable, w
ith one end connected to the Bioslim TCP/IP port, and the other end to your PC netw ork adapter.

Step 2

To check your PC's IP Address Settings, find out the IP address of the network. To do so, go to a PC in the network presently, press Start->Run->Type "command" and click on 'OK'.

Step 3

Type "ipconfig" and press 'Enter'.

Step 4

Note the IP Address displayed, following is an example.

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\User-09>ipconfig

Windows IP Configuration


Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.0.26
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.0.11

C:\Documents and Settings\User-09>
```

Step 5 To Check the IP Address of controller press Menu KEY enter Admin id(11111) then Enter Password (12345) press ⊔ then select network > Ip Address which w ill display the Current IP Address
to Controller, make a note of it. (Default IP of the controller is 192.168.000.200)

Step 6 To change the IP Address in Controller unit. Refer Configuration of Bioslim(port is default 01234 no need to change)

Testing the Connection

Once the configuration is complete, it is recommended that the connection be tested. To test the connection following is the under mentioned steps

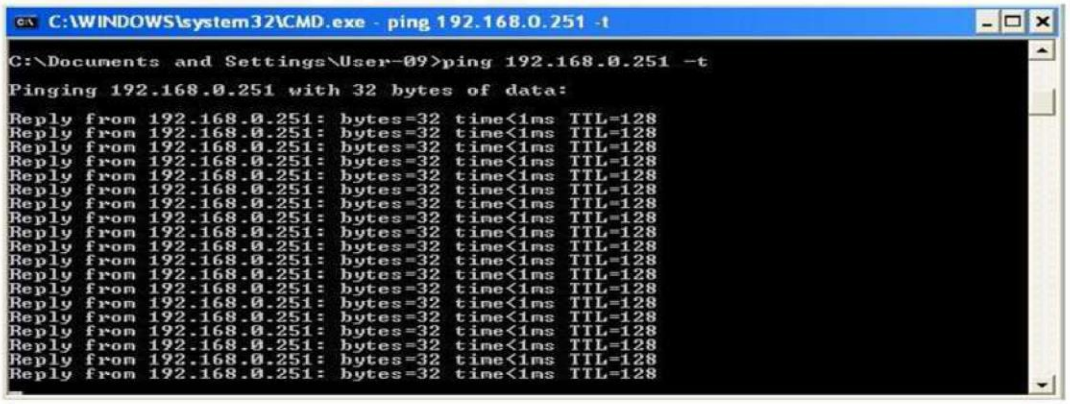
Step 1

At the PC, Click Start -> Run -> Type "command" and press 'OK'.

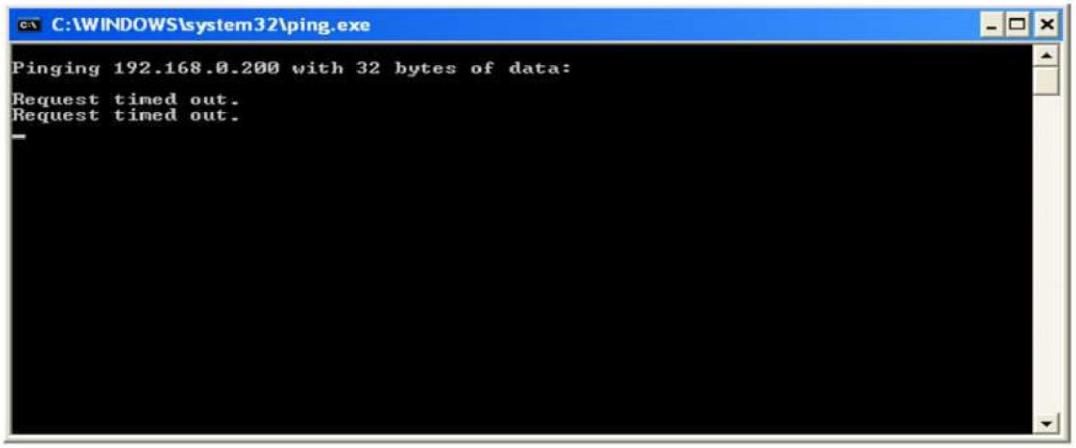
Step 2

Type "Ping 192.168.0.251 -t"
(The IP Address should reflect that of your NG Biolite unit)
Note: - If unsuccessful, either "Destination Host Unreachable" or "Request Timed Out" will be displayed, please follow the above steps carefully and test the connection.

Successful Connectivity



Unsuccessful connectivity



Testing the Connection Totesttheconnectionfollowingistheundermentionedsteps

Step 1

At the PC, Click Start -> Run -> Type “command” and press ‘OK’.

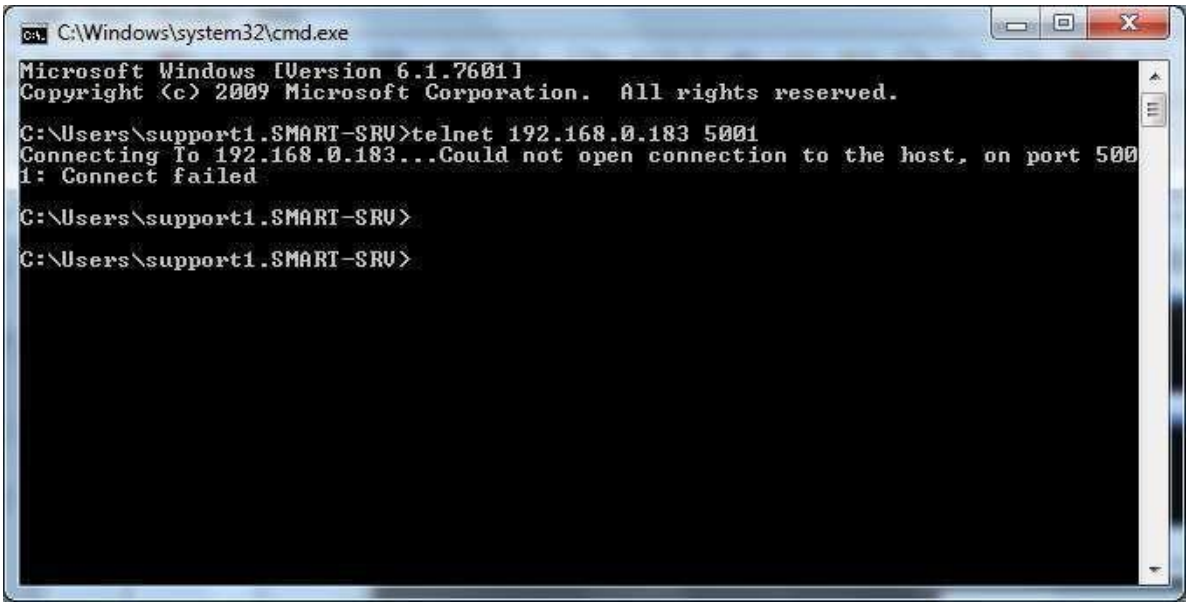
Step 2

Type “telnet ipaddress port"

(The IP Address should reflect that of your Bioslim unit)

Note: - Ifunsuccessful,either“Connectfailedwillbe displayed,pleasefollow the above steps carefully and test the connection.

Successful Connectivity

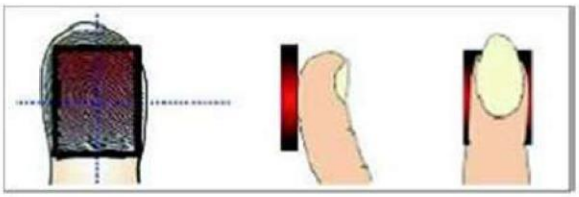


Using Bioslim

The user enrollment process is performed in one of the 'Bioslim Unit OR through the administrator's computer, and the biometric data is distributed to other readers over the ' Bioslim Network.

I Proper Finger Presentation.

When it is necessary to place your finger on the fingerprint sensor, gently place the last segment of the finger used during enrollment squarely & firmly on the fingerprint sensor.



II Keep finger on fingerprint sensor until the unit responds in one of the following ways.

If the LED lights up in green, the authentication is successful

LED STATUS	BUZZER STATUS	DESCRIPTION
LED FLASHES RED	SHORT BEEP	USER NOT FOUND
LED FLASHSES GREEN	LONG BEEP	ACCESS GRANTED

Trouble Shooting

 # No Communication from Biometric Controller to PC

- There are a few points that can be checked to fix it:
- Make sure the network cable is functional; sometimes a damaged cable may be the cause of all problems. To check if it is functional, make sure there are no loose ends and the jack is properly attached to the cable.
- Check that the IP Address Assignment matches the network settings of the corporate LAN or the PC being used.
- Make sure no IP has clashed and that there are not two identical IP addresses in the network.

 # Fingerprint sensor not activate in Identify mode

- To Enter into Admin Mode refer the manual
- Check for Identification mode by Using Key functions.
- Select an option and press enter to go in Identify menu. In this menu user Can set different types of identify mode like normal mode, identify by key, auto sense etc. by using Scroll key select the mode and set press enter to set it.

 # LCD screen of the Biometric completely blank

- Check whether the power supply is working or not
- The output voltage generated by the power supply is 12V DC. Check this voltage using multimeter if possible
- Check 12V-G power connector properly inserted into a socket.

 # Is it possible to connect two locks or two readers on single connector?

- NO, do not connect 2 locks or 2 readers together on a single connector. A single lock connector can safely drive 600mA current.
- If load current increases beyond 1A, that may cause hardware problems.

 # "Time out" is displayed after the sensor went on the state of "Light-up".

- The state of your fingerprint is dry. So, the sensor may not scan the image of your fingerprint in time.
- You have to check if the strength of pushing when your finger pressed on the sensor is strong or not.
- You have to keep being proper strength when your finger pressed on the sensor.
- You have to check if your finger departs from the sensor before capturing the image.
- Your fingerprint doesn't have to depart from the sensor before capturing image.

 # When finger is placed on sensor in display show "User Unauthorized"

- To Enter into Admin Mode & search user finger refer keypad functions.
- If user is added then it will show card no and fingers enrolled.
- The state of your fingerprint is dry. So, the sensor cannot scan the image of your fingerprint in time.
- You have to place your finger squarely and firmly on the sensor for proper scanning of the fingerprint image.

 # Continues Beep & Door Force Open

- Check for lock magnetic contact (MC+/ MC-), it should be short if not in used.(Refer connection Diagram)

 # Admin User: User/Password Fail

- If the System/Unit is initializing then password will not match. In this case RESET the System

i.e. power off and then power on the system then enter Admin Id and password.

 # Is it possible to connect Bioslim as weigand reader then what will be to step follow-up?

- No Not possible to connect Bioslim as weigand reader on Site