MicroBEN Bio (BBAS)

Finger Print & Card based Attendance System
User Manual

General Notice

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This manual describes MicroBEN Bio (BBAS) Finger print & Card based Attendance terminal in detail and contains full operating instructions.

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:: 1.0 INTRODUCTION ::

MicroBEN Bio (BBAS)
FINGER PRINT & CARD BASED ATTENDANCE SYSTEM

● Morpho Finger Print Reader ● Proximity Card Reader ● Wall Mounting Bracket
● Minimalistic Design ● Sleek & Stylish

Approved by Govt. of Bihar

MicroBEN Bio : Realtime Field Data Capture is needed for a number of Application with Finger/Card reader for Identification. MicroBEN Bio is a Compact device, having LCD display & Keyboard for Man Machine Interface. It is also having Proximity Card Reader & built-in LAN connectivity.

It is programmable & can suit user Attendance application. The Attendance Engine is provided as default, forattendance needs using one of the mode, ie; only Finger, Card + Finger, Card only.

Technical Specification
❖ CPU : High Speed ARM Core CPU
❖ Card Reader : Proximity card reader
❖ Finger Print Reader : **Morpho-Sagem**∗ (Aadhar Certified) Sensor with 1000 templates (500 users) in 1:N mode
❖ Communication : TCP/IP using RJ45 port (10/100 Mbps)
❖ Multiple Data Transfer Policy: Always-on/Schedule based
❖ Data Communication Mode : Pull & Push Data to Server over LAN or Internet
❖ Transaction Records : 90,000 Records
❖ Display : 128 X 64 Graphic Backlit LCD
❖ Keyboard : 16 Key Membrane Keyboard for enrollment & other Admin option
❖ User Friendly : Web Server I/F for managing terminal
❖ Memory : 90,000 Transaction Storage
❖ Battery Back-up : Retention of Clock & Data upto 10 Years
❖ Keyboard : 4x4 Membrane Keyboard
❖ Identification Time (1:N): <1 Sec. (Typical)
❖ Minutiae-only Template Extraction Algorithm with EER : <0.1%

Physical & Environmental Specs
❖ Anti Theft, Sleek ABS enclosure
❖ Size : 80 (W) X 140(H) X 120 (D) mm
❖ SMPS Power : Input - 90 to 270V AC, Output :12V DC(2 Amp)
❖ Operating Temperature : 0 to 55 Deg.C
❖ Humidity : Upto 95 % RH (Non-Condensing)

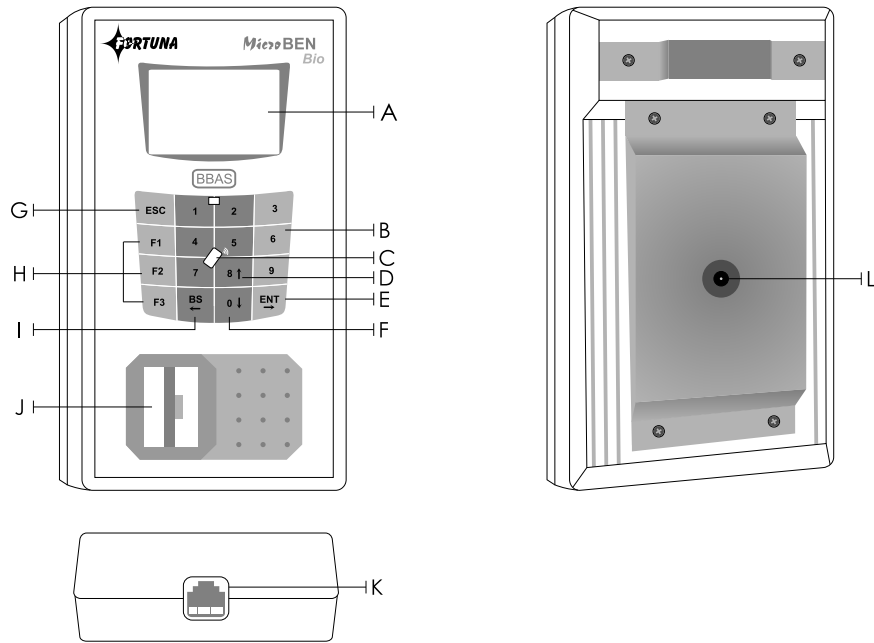**Optional item (at cost)**
❖ ABS Enclosure with Lock & Key
❖ External Battery back-up (3Hrs)

SMPS Adapter/Charger

3m LAN Cable

MicroBEN Bio

2 Product Features
2.1 Appearance View

A. Display
B. Button: Digital Keypad
C. RFID Reader
D. Button: Up Button
E. Button: Enter / OK / Right button
F. Button: Down Button
G. Button: ESC button
H. Button: Function buttons
I. Button: Back Space / Left button
J. Finger Print Sensor
K. LAN Port
L. Power Adapter Port

2.2 Installation Guide
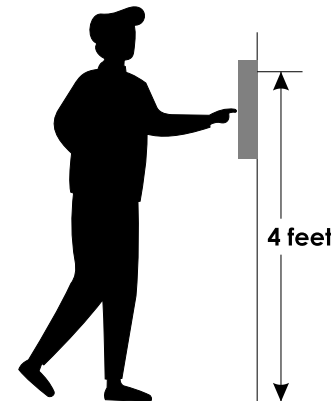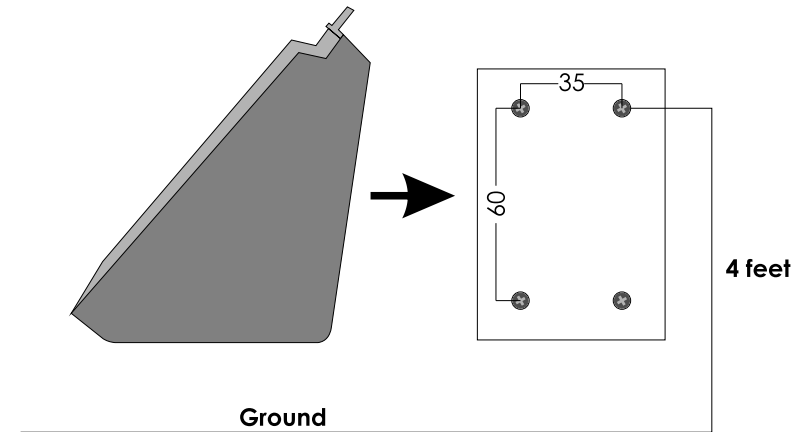
User can drill the holes according to the mounting diagram. Use the 4 wall mount, screws to mount the bracket to the wall. User also could mount the terminal by choosing your "shortest" users and have them stand in front of the device.
Hold the terminal on the wall that employee can comfortably center their finger in the Sensor.
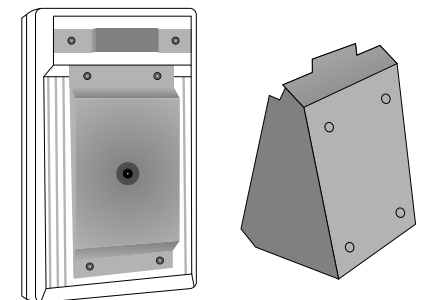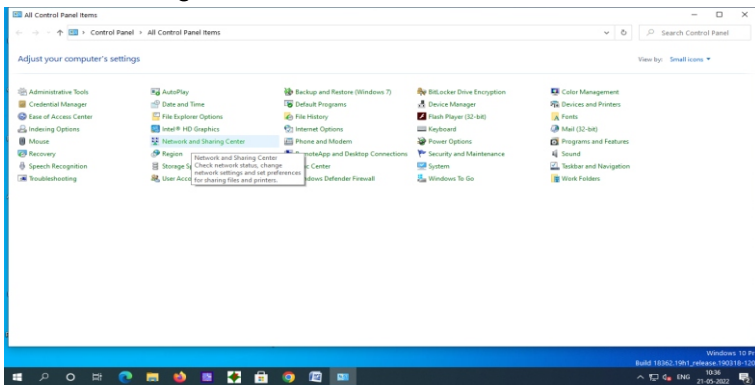
2.3 How to check your local PC/Network IP

Before IP setting you should check in your local PC/Network IP & please get a free IP address from your network. Make sure that the IP is not obtained an IP address. If it has obtain IP then make sure fixed it. Please see the process to fix IP Address for PC/Server.
Search → Control Panel
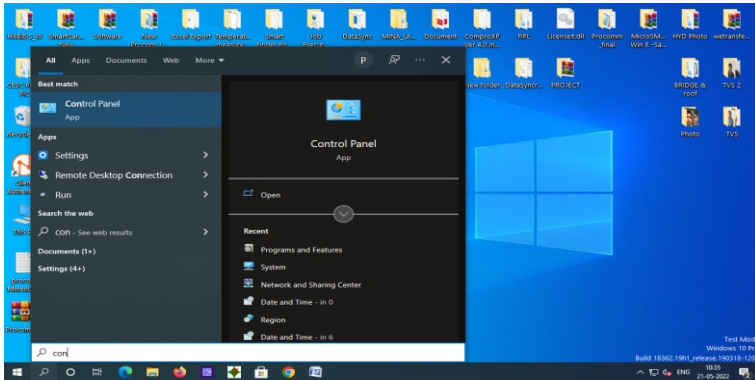
Go to Network and Sharing Center

Click on Ethernet
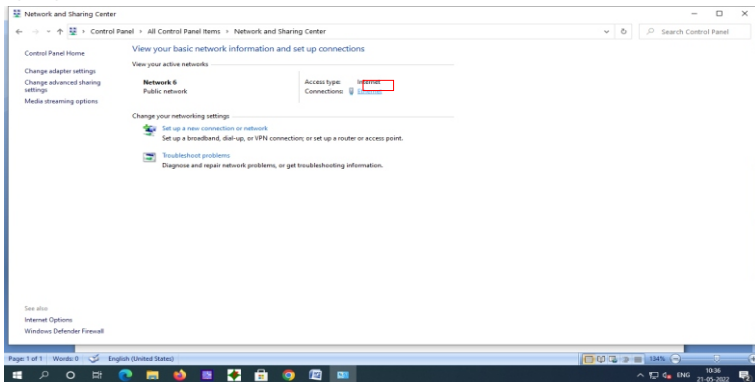
You will get a dialog box & click on Properties
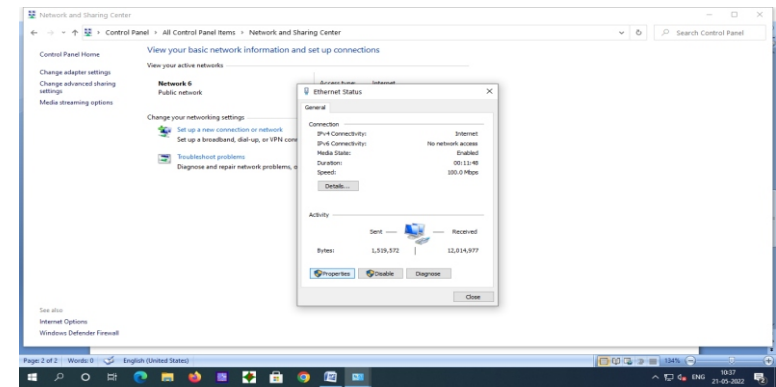
Select Internet Protocol Version 4(TCP/IPv4) & click Properties
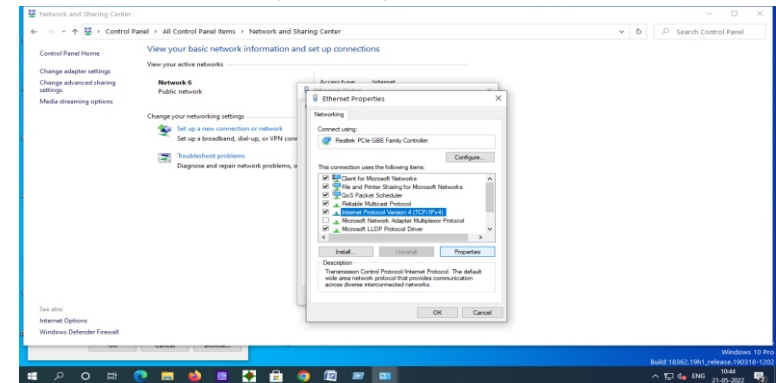
If it has Obtained IP Address showing like below
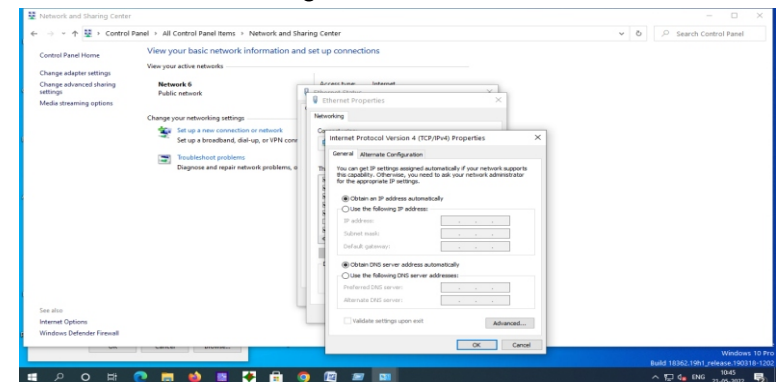
Then system will automatically restart and come to the main display

If it is not obtained IP address its showing like below(Make sure you has a fixed IP)
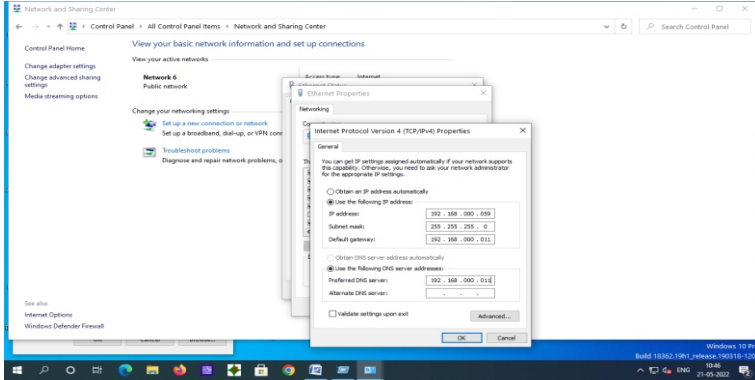
2.6 How to check free IP in your network

Search → Run → Enter
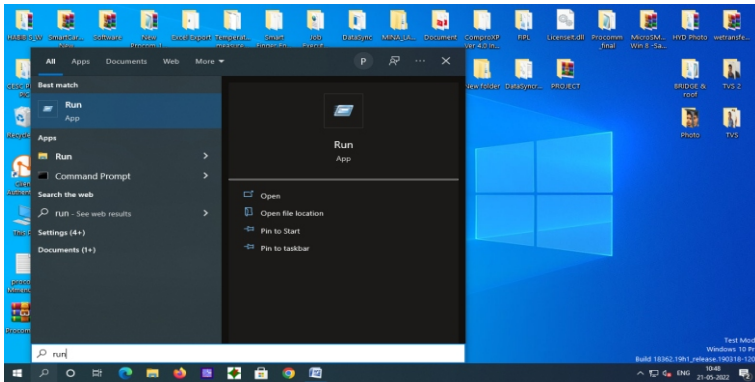
Ping your IP. Example : Ping 192.169.0.59 t > Enter

If massage showing "Unreachable" that is free IP
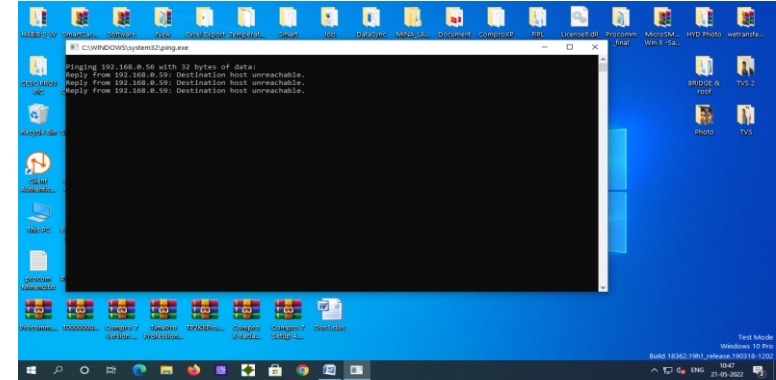
When you put IP in your device and make sure IP is ping from your PC, if it is ping like below that means your device is connected to your PC/Network
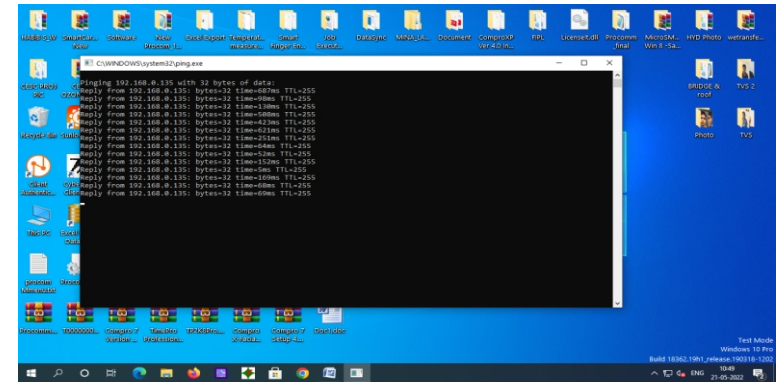
Please scan the QR code to download the pdf file of MicroBEN Bio BBAS Biometric Device Installation Process

2.4 IP Setting

Before IP setting you should check in your local PC/Network IP & please get a free IP address from your network. Make sure that the IP is not obtained an IP address. If it has obtain IP then make sure fixed it. Please see the process to fix IP Address for PC/Server. To set the IP, first press"F2" key & is password protected(Password is **12345**).

```
WELCOME TO FIPL
19 May  13:41
2022
Record=2    NUL
```

It enters the **"Select Fuction",** where the user has to select **"SET GLOBAL MODE"** & press "1" by using keypad**.**

```
SELECT FUNCTION
SET GLOBAL MODE
SET 1:N SPEED
SYSTEM INFO...
GPRS SETTING
```

By pressing "1" system prompts for password (Password is 56890).

```
SELECT FUNCTION
PASSWORD:_
```

After giving password press **<ENTER>** & select **"SET N/W. PARAM".**

```
FUNC.==> ESC + F1
DO SYSTEM TEST
SET DATE & TIME
SET SYS. Param.
SET N/W. Param.
```

Select **"SET LOCAL IP"** & press **<ENTER>** Key*(You shall obtain a free IP Address from the customer network which will be assigned to the device)*.

```
SET N/W. Param.
SET SERVER IP
SET SERVER PORT
SET LOCAL IP
SET LOCAL Sn.M
```

Put the local IP using keyboard.

```
SET LOCAL IP
>>192.168.000.184
```

After put IP system will ask **"Entry OK ?"** Press "1" to confirm.

```
SET LOCAL IP
>>192.168.000.184
Entry OK ?
<1> YES   <0> NO
```

To set Set Local Sn.M select **"SET LOCAL Sn.M"** & press **<ENTER>** Key.

```
SET N/W. Param.
SET SERVER IP
SET SERVER PORT
SET LOCAL IP
SET LOCAL Sn.M
```

Set local Sn.M by using keypad.

```
SET LOCAL Sn.M
>>255.255.255.000
```

Confirm local Sn.M by press "1".

```
SET LOCAL Sn.M
>>255.255.255.000
Entry OK ?
<1> YES   <0> NO
```

To set Set Local Gateway select **"SET LOCAL Gt.W"** & press **<ENTER>** Key.

```
SET N/W. Param.
SET SERVER PORT
SET LOCAL IP
SET LOCAL Sn.M
SET LOCAL Gt.W
```

Set local Gateway by using keypad.

```
SET LOCAL Gt.W
>>192.168.000.011
```

Confirm local Gateway by press "1".

```
SET LOCAL Gt.W
>>192.168.000.011
Entry OK ?
<1> YES   <0> NO
```

Then system will automatically restart and come to the main display.

2.5 Enrollment Process

When the system is Powered-on, it goes thru the self test & then shows the following on the LCD Display.
Sign on Massage in Display : First line showing Device Name, Next Line is showing Date & Time, it is always showing your PC / server real time, make sure your PC time is real time. Third line showing Record=2 that means device is not connected with PC, records remains there in the device (like Record=2). Once it get connected records becomes Zero (like Record=0).

```
BBAS TEST
19 May   13:41
2022
Record=2    NUL
```

```
BBAS TEST
19 May   13:41
2022
Record=0    NUL
```

The terminal has got enrollment program which can be invoked by "F1" key & is password protected(Password is **12345**). Enrollment of a valid user can only be done by **"Administrator"** using password.

```
Enter PassWord

PASSWORD:_
```

It enters the **"Select Fuction",** where the user has to select **"VIEW TABLE".**

```
SELECT FUCTION
FORCE ENROLL
RE-ENROLL
VIEW TABLE
```

By pressing **<ENTER>** Key on **"VIEW TABLE",** its shows Employee list with Employee ID
Browse the name list using **ENT** (to go forward) & **BS** (to go backward) key to select the employee you would like to enroll.

```
VIEW TABLE
Card ID:00000135 (X)
Employee ID>>: 135
Dipak Shee
```

Select the name and press "F1" key. System will ask for Finger count. For 2 finger enroll press "2" key from keypad.

```
ENRLOLL FINGER
Finger Count:2_
```

The System expects the user to "**PUT FINGER**".

```
Enrolling : 00000121
>>         121
> DIPAK SHEE
    PUT FINGER-1
```

After puttting the Finger on the fingerprint sensor it will show.

```
Enrolling : 00000121
>>         121
> DIPAK SHEE
OK...Remove Finger
    SCAN SUCCESS-1
```

Again user have to put same finger with gentle (Normal) pressure.

```
Enrolling : 00000121
>>         121
> DIPAK SHEE
    PUT FINGER-1
    SCAN SUCCESS-2
```

Similarly enroll the second finger.

```
Enrolling : 00000121
>>         121
> DIPAK SHEE
    PUT FINGER-2
    SCAN SUCCESS-2
```

The system prompts for entering the Verify Mode. Pressing **<ENTER>** Key on1:N Mode.

```
Enrolling : 00000121
SET VERIFY MODE
1:N - MODE
CARD ONLY
CARD + PIN
```

Upon successful enrollment the system gives **"Enroll Success"** message.

```
ENROLL FINGER

Enroll Success
```

Return once again to Enroll/Delete finger option for enrolling another finger or Press **<ESC>** key if you want return to working mode.

```
WELCOME TO FIPL
19 May   13:41
2022
Record=2    NUL
```

Put Finger and check user Enrollment is complete. System will show **"Allowed"** if finger is enrolled well & accepted by the system.

```
WELCOME TO FIPL
ID :      121
    13:45:30
    ALLOWED
    DIPAK SHEE
```

3 Trouble Shooting Guide
3.1 Trouble Shooting Guide for Common Problem :

              Symptom   Check

> Communication not happening --------------- 1) Check IP Address by pinging the IP address
          (TCP / IP)   of the Biometric machine from Windows PC
                                      Run option.
                                      Example : **Ping 192.168.1.140 -t**

                                      2) Check TCP Port by giving Telnet command
                                      from Windows PC Run option.
                                      Example : **Telnet 192.168.1.140 10001**

> Garbage Display----------------------------------- 1) Power off & Power on once again.
                                      2) Check if the System is running
                                      on Gen Set. If yes put a Online UPS with
                                      frequency correction.
                                      3) Change Adapter Power Supply.

> Power not coming on LCD Display------------   Change the 12 V DC Power Adapter & Check

Limited Warranty

Fortuna Impex Pvt Ltd. warrants to you, the original purchaser, that the Fortuna Product as per details hereunder and all parts there of will be free from defects in materials and workmanship for One year from the date of purchase.
If this product is found to be defective, Fortuna will repair or replace defective parts at no charge to the original purchaser on "Back to Bench" Fortuna service center basis. Such repair and replacement services shall be rendered by Fortuna during normal business hours. Parts used for replacement are warranted only for the remainder of the warranty period.
This warranty is extended to the original purchaser. A purchase receipt or other proof of date of original purchase is required before warranty is rendered.
Warranty Period : One year from the date of purchase with Limits & Exclusions as per the statement below.

Limits & Exclusions
Warranty shall not apply in the following condition :
● Any product that has been repaired, serviced, dismantled, opened or altered by anyone other than Fortuna authorised service personnel.
● Fault arising due to bad power conditions(e.g. Generator Power, Unestabilised Power, Power drain from Industrial load), Hardware call due to voltage fluctuation, Electrical short Circuit, rechargeable battery deeply discharged etc.. (*Input AC specification is 230V AC +/- 5%, 50 Hz*).
● Fault arising due to mishandling of system (such as pouring foreign material in the Card / Biometric slot, forced scratching of Biometric sensor, Cutting / Punching / Snaching of Power / Communication / GPRS / Wifi Antenna Cable (if applicable).
● Fault/Damage arising due to improper maintenance, ignorance, negligence, mishandling, misuse, accident, natural calamity, Lightning,act of Fire, Act of God, Use of harmful Chemicals, Rodent means.
● Any damage / breakage of the enclosure or any other sub-system.
● The Serial Number of the Product is missing, deleted, defected, altered, or the Device is tampered By any unauthorized person.
● Installation/ Re installation/Modification carried out by person other than those authorized by Fortuna.
● Any type of fault / tamper / failure / intended Scratch/wear & tear in Biometric Sensor & Maintenance Free Battery(as the same is considered As Consumable).
In the event of any replacement due to any of the above mentioned reasons, it would be on chargeable basis only.

Clause
❖ Fortuna or its representative will determine whether the defective product should be repaired or replaced and judge whether or not the warranty applies.
❖ For unwarrantable repairs, you will be billed according to the cost of replacement materials, service time and freight.
❖ Please consult our Service Dept. for more details : **bbas@fortunaindia.com**

Limited Liability

The company undertakes no liability in matter of consequential losses and / or damages caused to the customer or 3rd Party due to failure of any component of the machine in part and / or total. Fortuna liability under this warranty shall be limited to repairing or providing replacement of part, which is proved to be defective.

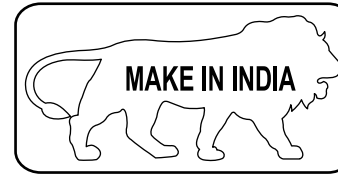**How to get help if you have a problem**
Your satisfaction will always be our concern.
To ensure you get the full benefit of our services, Please contact our office at the following :
Phone : 91 733 000 4448
E-mail : info@fortunaindia.com
Support Hot Line : 91 7550 670 670

ISO 9001:2008 CERTIFIED

FORTUNA
IMPEX PVT LTD

P-73, Kasba Industrial Estate
Phase - 2, Kolkata - 700107

Reliable Product · Committed Service · Responsive Approach

www.fortunaindia.com

MAKE IN INDIA

We are at your service, at all times.

"*A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption on our work. He is the purpose of it. He is not an outsider on our business. He is part of it. We are not doing him a favour by serving him. He is doing us a favour by giving us an opportunity to do so.*"

Mahatma Gandhi

FORTUNA
Endorses the above ...

Contents :
☐ MicroBEN Bio
☐ 12 V DC Adapter
☐ Wall mounting Bracket
☐ LAN Cable
☐ Test Certificate
☐ Screws & Clips
☐ Prox Card - 2 Nos.
☐ Invoice Copy

Details : Please fill up the following information & WhatsApp on 93300 26371 or email it to bbas@fortunaindia.com

Customer Office Name :

Contact :

Address :

Mobile No. :

Email ID :

Invoice No. :

Device Sr#