

MANTRA
Innovation that counts

MANTRA PRODUCT GUIDE 2019-20

We help you to secure your business. We are industry leaders in providing customized security solutions.

MANTRA EXPERTISE

Mantra Softech India Private Limited. is a leader in biometrics hardware, software, and integrated solutions development. Known simply as "Mantra" across India, we offer our clients an innovative approach to safety and security solutions for their homes, offices, corporate buildings, and industrial plants.

MANTRA'S PRODUCTS:



Fingerprint Sensors

Fingerprint scanners are used in recognizing the fingerprint for authentication with the help of fingerprint recognition module which provides the best performance, sustainability, and accuracy. Fingerprint reader as well as the scanner is a safe and reliable machine for any security rather than remembering the password. Mantra have Indigenously developed various high quality fingerprint scanners certified with FBI, STQC, UIDAI, BIS and various other international recognized certification agencies.



IRIS Sensors

Mantra has built high-quality IRIS Sensors for IRIS Authentication for desktop and network security. Mantra IRIS sensors can be used as a component to mobile devices and Handheld devices. Mantra IRIS sensors are also used as standalone or PC/Mobile based devices. These IRIS devices can read IRIS from distance of 10cm to 30cm with high resolution.



Integrated Fingerprint Devices

Mantra introduced various Integrated Fingerprint Devices for various usages like Access Control, Handheld Terminal, Attendance System, Rugged Fingerprint devices etc. These devices are all-in-one, affordable, WiFi, and 3G/4G Enabled terminal. Because of its Android environment and SDK, customer can develop own app as per requirement.



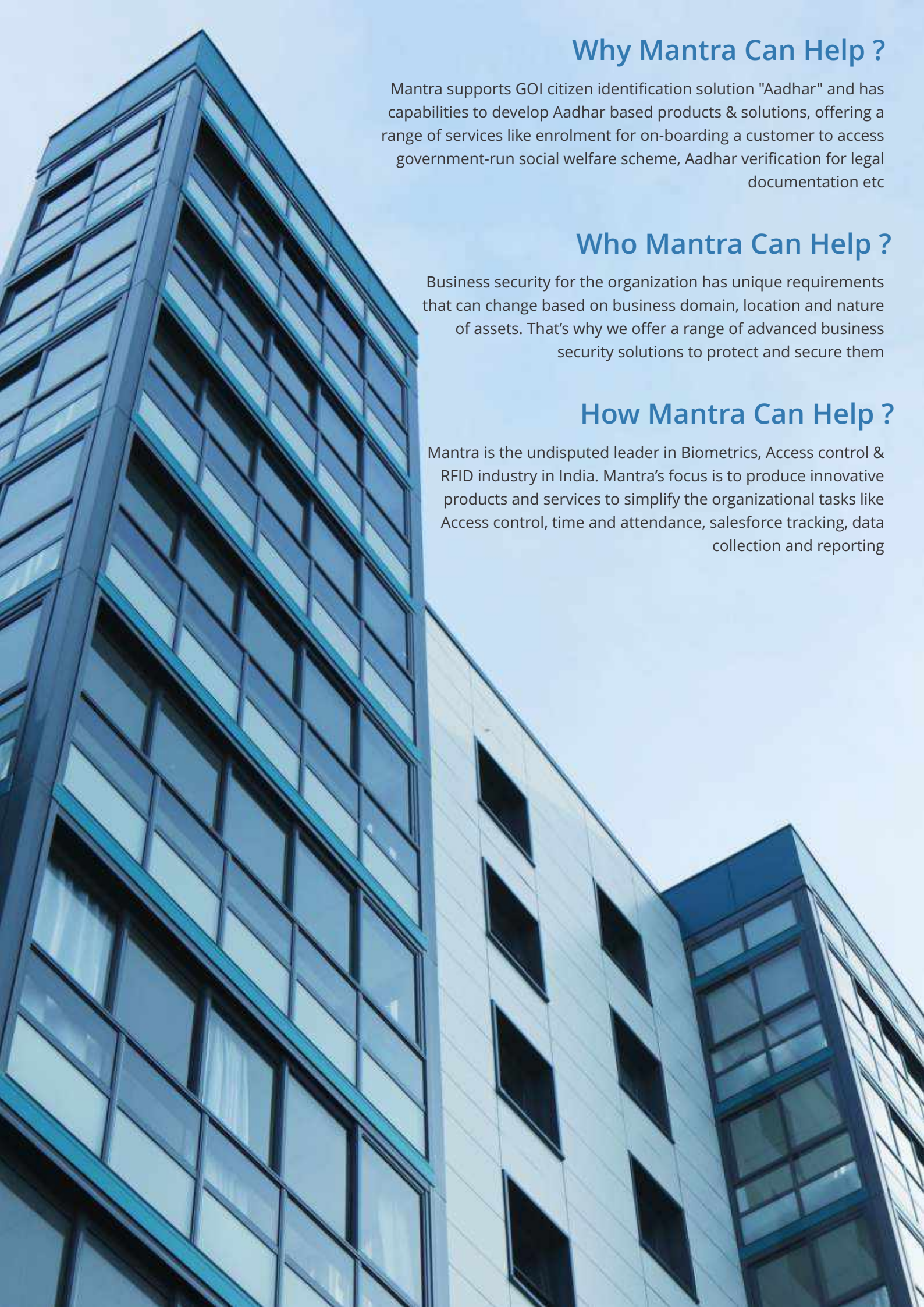
Integrated IRIS Devices

Mantra added various Integrated IRIS Devices in its product range. It includes IRIS tablets, handheld terminals, access control terminals etc. These devices are available in Android and Linux environment. Mantra gives SDK/API to customers, so that customer can develop their own customized applications.



POS / MicroATM / Financial Terminal

Mantra introduced mTerminal200, mTerminal100, mATM100, mBrix etc, which provides an all-in-one solution with mobile terminal along with various biometric technologies. These terminals are used in Financial applications, Point of Sale applications and various government applications and projects.



Why Mantra Can Help ?

Mantra supports GOI citizen identification solution "Aadhar" and has capabilities to develop Aadhar based products & solutions, offering a range of services like enrolment for on-boarding a customer to access government-run social welfare scheme, Aadhar verification for legal documentation etc

Who Mantra Can Help ?

Business security for the organization has unique requirements that can change based on business domain, location and nature of assets. That's why we offer a range of advanced business security solutions to protect and secure them

How Mantra Can Help ?

Mantra is the undisputed leader in Biometrics, Access control & RFID industry in India. Mantra's focus is to produce innovative products and services to simplify the organizational tasks like Access control, time and attendance, salesforce tracking, data collection and reporting

Advancing the Security system, making businesses smarter, faster & more profitable



1.5 + million MFS100 single fingerprint scanner in indian market



4+ lakh Aadhaar enabled attendance device been used by Govt & Private vertical



Serves 20% in Top 50 Corporates in India



Only Company with Biometric R&D facility in India



Serves 80% of Central government offices

Mantra Softech is a global hi-tech manufacturer of biometric products and solutions. We offer a wide range of products in biometric and RFID industry. This dream project of like-minded visionaries started in 2006 continues to push the envelope on biometric system capabilities. Customers rapidly growing requirements for complex and sophisticated security system are the inspiration behind Mantra's Innovative products and solutions.

Globally recognized as one of the leaders in this field, Mantra continues to position itself as an innovation-driven brand. Mantra's product portfolio includes Fingerprint Sensors, IRIS Sensor, Integrated Fingerprint Devices, Integrated IRIS Devices, POS / MicroATM / Financial Terminal, IRIS Recognition in Mobile and many more biometric devices. New products and solutions are added every year in our services and in the product category to meet the future needs of business in terms of their security concerns. Our security solutions include Business Security Systems, Enterprise Security Solution, Integrated Security Solution, Access Control System, Smart City Solution, Airport Solution, suitable for application in both SME and large enterprises.

Mantra is the pioneer of Aadhaar, enabling biometric devices which are currently used by the Indian government for social welfare scheme, and also by telecom and banking sector for KYC purposes. Our manufacturing units are equipped with cutting-edge technology, intense automation and zero chance of human error. Mantra's state-of-the-art, manufacturing facility is in Ahmedabad.

Our valuable assets are the Mantra brand, R&D and Manufacturing facilities along with unparalleled, multi-layer distribution network. With a view of taking our range of products to distant corners, we have carved out a strong network around the globe. In addition, Mantra's international presence spans across African and middle eastern countries.

Mantra is one of the few players in the industry to have successful R&D facilities to improve product functionality and develop new products which are future proof. As for quality standards, Mantra is committed to the core values of integrity, ethical practices and responsibility towards customers and the environment. Brilliant quality and design achieved by the vision of our leaders, has led to the rapid growth of Mantra as a global brand and Mantra has now become a powerhouse of biometric innovations in just a few years even though it is just a beginning.

MANTRA ACHIEVEMENT

As a leading biometric product manufacturer, Mantra constantly strives to produce innovative products and provide services with some salt of innovations. Historical milestones and a variety of achievements characterize our company's journey: from contributing in Aadhaar based applications to being the largest biometric device manufacturer in India. Mantra holds pride in being India's First company to have an FBI Certification and the first Indian Biometric devices' manufacturer to receive certification from UIDAI.



85%

Market Share in Aadhaar Based Attendance System for Integrated Biometric Products for 21 M Users



290 M

Managing Biometric Public Distribution (Food & Civil Supply) System for Population Size



118 M

Managing Biometric Fertiliser Subsidy Program for Farmers



50 %

Mantra's Market Share (Number of Devices) for Biometric Hardware in India



7 M

Handled Registration and Enrolment in Parts of India During NID Implementation



1.8 M+ units

Largest Biometric Hardware Manufacturer and Supplier

WHY MANTRA ?

Being a leader in biometrics hardware, software, and integrated solutions development, we offer our clients an innovative approach to security solutions for their homes, offices, corporate buildings, and industrial plants. Mantra is amongst the few players having R&D and Manufacturing facilities along with unparalleled, multi-layer distribution network in India.

In House Technical Support Team
With on Call & Field Support



First Mover Advantage for
Aadhar Enable Device.



State of Art
Manufacturing Facility.



One Stop Business
Security Solution.



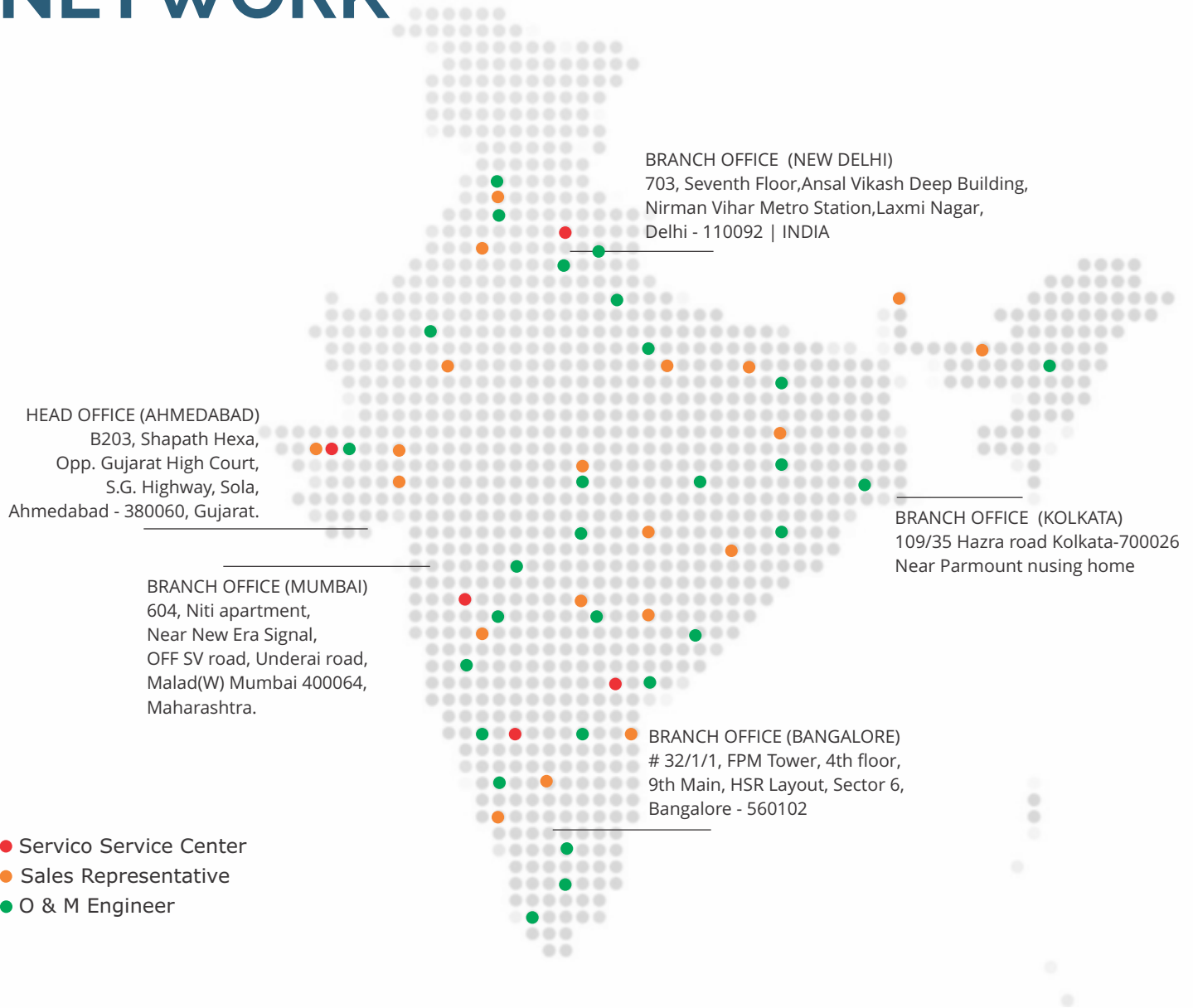
R&D Provides Edibility of
Customization and Capability
to Develop Innovative Products.



Vast Knowledge in Aadhar
Implementations in the
Government Sector.



OUR NETWORK



Mantra's focus is to produce innovative products and provide services with some salt of innovations. Company focuses to promote intellectual qualities in an individual qualities in individual and team and get the best out to be delivered to various clients in a cost-effective manner. Mantra has many firsts in its kitty which we feel proud to convey them as many time as possible.

- Total 300+ Employees across India.
- Total 4 Branch offices across India.
- Largest Biometric Manufacturer in India.
- 20% of Top 50 Corporates in India are our clients.
- Serves 80% of Central government offices.
- Support & Marketing people in 24 states of India.

COMPANY CAPABILITIES

Technology Strength

- Company has strong R&D focus and Technology strength
- Over 1/5th of total employee of the company are employed in R&D/ technology function
- Company has many first to its name
 - Developed India's first Fingerprint Sensor MFS100
 - Developed India's first IRIS Sensor MIS100
 - Developed India's first Web Based GPRS Attendance System
 - India's First Company to have FBI Certification
 - Secured lowest FRR (False Rejection Rate) Ranking at FRR competition by UIDAI/STQC/CDAC
- R&D focus on
 - Product design engineering, which are suited for Indian conditions, where data quality is low, various technology platforms are to be integrate and at minimal cost
 - Further, focus of R&D is an Optical and Imaginary Engineering, Embedded Software Engineering and Embedded Hardware

Manufacturing Strength

- Mantra is one of the leading INDIAN manufacturer of Biometric Attendance System and Access Control System. We are restless in pursuit to implement latest technologies into our products and provide the excellent solution to our customers and users. In order to achieve this, we have set up a team of some highly qualified professionals, who work tirelessly to bring up something creative and technically advanced.
- Mantra Production capacity is around 150K pcs per month, which can be increased to 250K pcs per month on requirement.

CUSTOMER PROFILE

Customer Base Spread Across Industries



Education



Port



Government



Healthcare



Restaurant



Logistics



Bank



Office



Factory



Retail



Energy



pharmaceutical



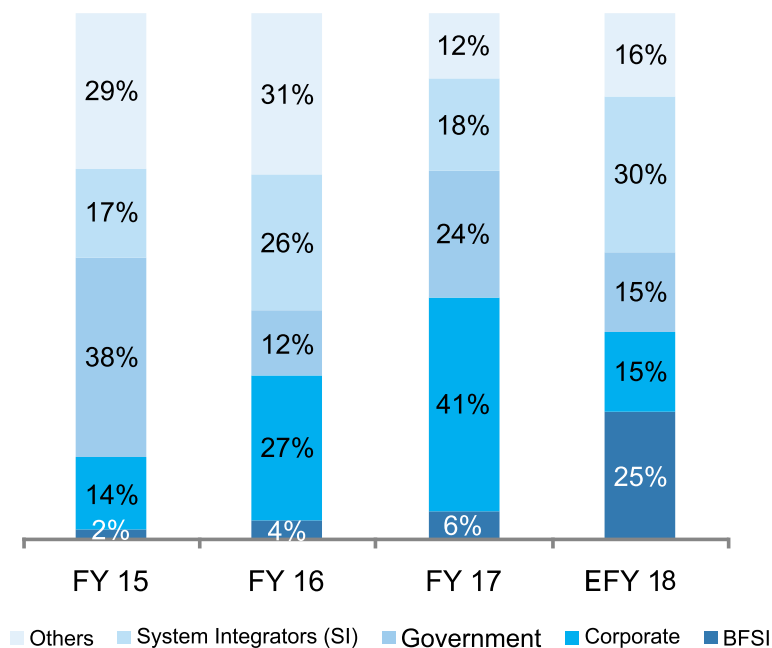
Textiles



Construction



Financial Institution



- Company has strong presence in BFSI sector serving major banks, NBFCs and Asset Management companies
- Company enjoy's nearly 40% market share for UIDAI certified products
- Company is partner of choice for major System Integrators (MNC as well as domestic) including NEC, Johnson Controls etc. In many situation SI is required to buy Mantra products despite having their own product

MANTRA CERTIFICATIONS

The company's strength towards innovation is an ability to integrate all of our technologies to match customer requirement. We integrate Access Control security with attendance, Access Control with surveillance, surveillance with RFID, Security with home and office automation, and Biometrics with Smartcard and so on. Our company develops most of the product indigenously and we use imported products to match customer requirement and budget. Company has the software and hardware team to integrate any technology. We are committed in providing total quality solutions to give technology benefit in enhancing business and security.

Developed first optical fingerprint sensor in India
MFS100

IS 13252(Part 1)



Developed first optical fingerprint sensor in India
MFS100



India's First company to have an FBI Certification



Developed First web based GPRS Fingerprint Attendance System

First Biometrics company in India to be UIDAI Enrolment Agency



Secured lowest FRR Ranking at FRR competition by UIDAI / STQC / CDAC



TESTIMONIALS



Appreciation Certificate from MCGM (Municipal Corporation of Greater Mumbai).



In the fast-paced world of financial services, Our Bank trusts Mantra to protect our evolving security needs.



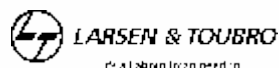
The reliability and overall performance of the solution is unique and the services offered are commendable.



Appreciation certificate is given from Adani port for successfully completing Security & surveillance system setup.

CLIENT FACING BRANDS

We develop smarter technology to improve businesses. Our knowledge and experience allows us to anticipate changes across geographies and industries, and deploy the right solutions rapidly. In the most challenging and demanding environments, we help our customers achieve their safety, security and business goals. For more than a decade, Mantra has been delivering the latest solutions to unique business challenges. Today, Mantra Integrated Security brings these solutions to enterprise, mid-size and small business companies, kindly look some of our clients.



MOXA7

Portable Biometric Device for Identification



Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions. We Offer a Wide Range of Products in Biometric and RFID Industry.



Features At A Glance



Technical Information

- ◆ **CPU**
1 GHz, 64-Bit ARM Cortex-A Quad-core Processor
- ◆ **RAM**
1GB RAM
- ◆ **Storage**
8 GB Flash Memory, Supports Micro SD Card upto 32 GB
- ◆ **Operating System**
Customized Google GMS Certified Android OS
- ◆ **Display**
7" IPS LCD with 1024x600 Resolution, Multi Point Capacitive Touch Screen with Tuffen Glass
- ◆ **Fingerprint Scanner**
PIV/STQC Certified FAP10 Optical Fingerprint Sensor (FAP20 Optional)
- ◆ **Contactless Card Reader**
13.56 MHz Contactless Card Reader Mifare, ISO14443 A & B
- ◆ **Waterproof & Dustproof**
Ip65
- ◆ **Barcode & QR Code**
1D & 2D Supported Camera Based Bar Code & QR Scanner
- ◆ **Shockproof**
1.0m Falling Rugged Device
- ◆ **Wifi**
IEEE 802.11b/g/n
- ◆ **Dual SIM 3G/4G**
2G (900/1800), 3G (B1/B8), 4G (B3/5/40)
- ◆ **GPS**
16 Channel NMEA Compliant
- ◆ **Ethernet**
10/100 Mbps
- ◆ **Battery Pack**
Li-Ion 10000 mAh Battery
- ◆ **Camera**
2MP Front Camera & 5MP AF Rear Camera with Flash LED
- ◆ **USB**
USB2.0 Type A and Micro USB OTG Supported
- ◆ **DC Jack**
1 x DC Power Input
- ◆ **Bluetooth**
- ◆ **Micro SD**
1 x Micro SD Card Slot Support upto 32GB
- ◆ **SAM Socket**
1 x SAM Card
- ◆ **AC/DC Adapter**
Input AC : 100~240V, 50Hz
Output DC : 5V/3A
- ◆ **SIM Socket**
2 x SIM Socket
- ◆ **Environmental condition :**
Operating temp. : 0 – 50 Deg C,
Storage temp. : 0 – 50 Deg C,
Humidity: Non-Condensing
10% - 90% RH
- ◆ **Accessories**
Power adaptor, Wall mount clamp, Optional Hand strap & Solder strap
- ◆ **Dimension**
247 X 138 X 48 mm
- ◆ **Weight**
Approx 0.750 kg

Certifications :

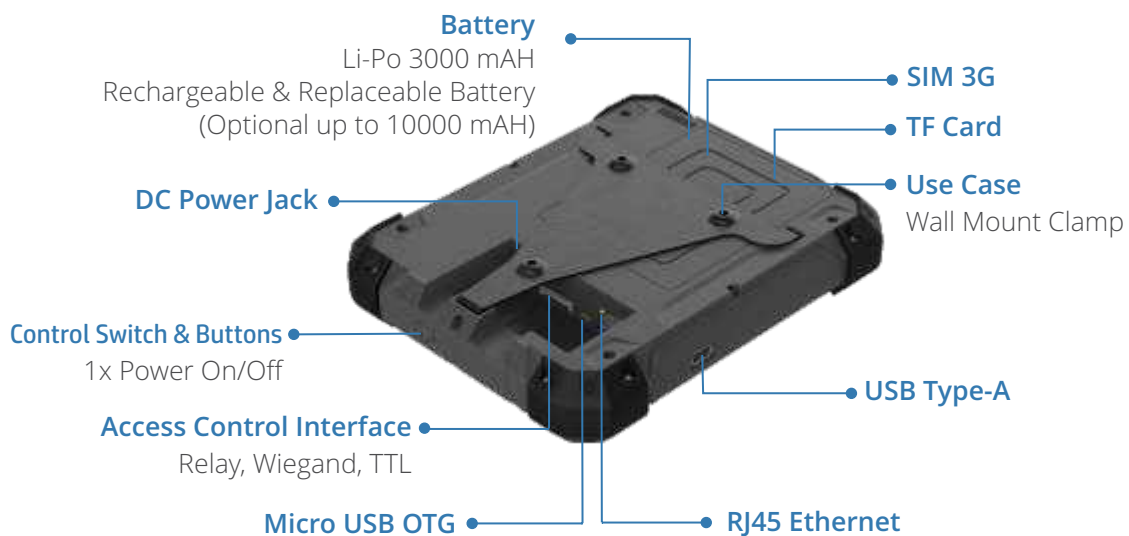


MFSTAB II

Seamless Biometric Time Attendance
& Access Control Device



Features At A Glance



Technical Information

- ◆ **CPU**
ARM Cortex A7 @1.3GHz Quad Core Processor
- ◆ **Memory**
8GB Flash + 1GB RAM
- ◆ **LCD**
7" IPS LCD with 1024x600 Resolution
- ◆ **Operating System**
GMS Certified Android OS
- ◆ **Camera**
5MP Auto Focus Front Camera with Flash LED
- ◆ **LED Indicators**
Power On/Off, Battery Charging Status
- ◆ **Audio**
High-Quality 1W Speaker for Announcements
- ◆ **Operating / Storage Temperature**
0 Deg - 50 Deg C
- ◆ **Operating Humidity**
10%-90% RH (Non-Condensing)
- ◆ **Dimensions**
222 x 181 x 40mm
- ◆ **Weight**
Approx 0.7Kg (Depend Upon Configuration)
- ◆ **Certifications**
CE, RoHS, BIS, IP54
- ◆ **Fingerprint Type**
Scratch Free Optical Sensor
- ◆ **Fingerprint Image**
316 x 354 Pixels (16 x 18 mm
- ◆ **Image Specs**
500DPI, 8 Bit Grayscale
- ◆ **Certifications**
CE, FCC, RoHS, STQC, PIV, IEC60950, IS13252 Part I
- ◆ **Contactless Card**
ISO14443 Type A/B Cards, Mifare (Optional)
- ◆ **3G/GPRS**
2G (900/1800), 3G (B1/B8)
- ◆ **Wi-Fi**
IEEE 802.11 b/g/n
- ◆ **Ethernet**
10/100 Mbps
- ◆ **USB**
USB2.0 Type A and Micro USB (OTG Supported)
- ◆ **SD Card**
MicroSD Card (Supports up to 32GB)
- ◆ **Bluetooth**
BLE 4.0
- ◆ **GPS**
16 Channel NMEA Compliant, AGPS Supported
- ◆ **SIM Socket**
1 x SIM Socket
- ◆ **Power Adaptor**
Input AC: 100~240V, 50Hz; Output DC: 5V/2A
- ◆ **Battery Pack**
Li-Po 3000 mAH Rechargeable & Replaceable Battery (up to 10000 mAH)
- ◆ **Touch**
Scratch Resistant Multi-Point Capacitive Touch Screen with Toughen Glass

MORPHS 60

PORTABLE

Multi Fingerprint Scanner

MORPHS 60 is a portable multi fingerprint scanner supporting both flats and rolled finger capturing. Slap fingerprint scanner is robust and suitable to capture plain ten-prints using four-finger slaps & thumbs.

Mantra Softech is a Global Hi-Tech Manufacturer
of Biometric Products and Solutions.



Portable Multi Fingerprint Scanner MORPHS 60



Features



Supports Flat and Rolled Capture



Fully Compliant with ANSI/NIST Standards



Better User Interface by LED Indicators



FBI Appendix F-Compliance



IP64 Surface



Scratch-Free Surface



USB 2.0 High-Speed



Advanced Rolled Image Construction Technology

Technical Information

- ◆ **Resolution**
500 DPI
- ◆ **Platen Size**
100 x 85 mm
- ◆ **Active Platen Area**
81.28 x 76.2 mm
(3.2 Inch x 3.0 Inch)
- ◆ **Gray Level**
8 - Bit (0 - 255)
- ◆ **Distortion**
<=1%
- ◆ **Capture Format**
Single Rolled / Flat Finger, Four Finger Slaps, Two Thumbs
- ◆ **Dimension**
Approx 150 x 160 x 130 mm
- ◆ **Four Fingers / Two Thumbs Capture Speed**
>= 3 Frames Per Second
- ◆ **Weight**
Approx 1.85 kg
- ◆ **Power Consumption**
2.5 W
- ◆ **Power Supply**
5V, 500 mA
- ◆ **Temperature Range**
-10°C to 55°C
- ◆ **Humidity Range**
20~80% RH
- ◆ **Four Fingers / Two Thumbs Image Pixels**
1600 x 1500 Pixels
- ◆ **RAM**
1GB or Higher
- ◆ **Hard Drive**
80GB or Higher
- ◆ **Interface**
USB 2.0
- ◆ **Operating System**
Windows
- ◆ **Compliance**
FBI Appendix F, CE, FCC, RoHS, IP64
- ◆ **Processor**
52.4 GHz or Higher

* System Requirement

MATIS DX

ADVANCED DUAL IRIS SCANNER

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions.
We Offer a Wide Range of Products in Biometric and RFID Industry.



Advance Dual IRIS Scanner MATIS DX



Adjustable

Eyepiece



Technical Information

- ◆ **Simultaneous Capture**
Dual IRIS Capture
- ◆ **IRIS Diameter**
> 210 Pixel
- ◆ **Spatial Resolution**
> 60 % @ 4.0 Lp/mm
- ◆ **Pixel Resolution**
> 19 Pixel/mm
- ◆ **Image Margins**
Left & Right $\geq 0.5 \times$ IRIS Diameter, Top & Bottom $\geq 0.25 \times$ IRIS Diameter
- ◆ **Pixel Depth**
8 Bits/Pixel (256 Gray Level)
- ◆ **Imaging Wavelength**
700 - 900 nm
- ◆ **Frame Rate**
> 5 Frames/Sec, Continuous Capture
- ◆ **Scan Type**
Progressive
- ◆ **Sensor SNR**
> 36 dB
- ◆ **Illumination**
Near Infra Red (NIR)
- ◆ **Capture Mode**
Auto Capture with Built-in Quality Check
- ◆ **Capture Distance**
117mm from the Front of Camera Lens
- ◆ **Capture Volume (WxHxD)**
28x21x15 mm
- ◆ **Exposure Time**
< 33ms
- ◆ **Encryption**
PKI (2048 Bit), AES (256 Bit) & SHA256
- ◆ **Interface**
USB2.0 and USB-IF Certified
- ◆ **Operating Voltage**
5V +/- 5% (USB Powered Device)
- ◆ **Current Consumption**
Operating : < 250 mA (Max)
Stand By : < 65 mA (Max)
- ◆ **Operating Humidity**
10-90% RH, Non-Condensing
- ◆ **Device Dimension**
184 x 148 x 61 mm
- ◆ **ESD Protection**
+/-4kV (Contact Discharge), +/-8kV (Air Discharge)
- ◆ **Device Weight**
0.45Kg
- ◆ **Operating System**
Windows 32/64-Bit, Android, Linux, Embedded RTOS
- ◆ **Biometric Data Interchange Format**
ISO 19794-6 for IRIS Image, ISO 29794-6 for image quality
- ◆ **EMI / EMC Compliance**
CE & FCC Part 15B Class A
- ◆ **Environmental, Health and Safety**
RoHS
- ◆ **Safety**
Exempt Group per IEC 62471:2006-07
- ◆ **Ingress Protection Rating**
IP54
- ◆ **Device Driver**
WHQL Certified

Certifications :     

Fingerprint & IRIS Scanner

1 CATEGORY Single IRIS Sensor | MIS100V2



Image Resolution	: 640 x 480 Pixel
Iris Diameter (in Pixel)	: > 220
Spatial Resolution or Contrast	: > 50% @ 1.0 LP/mm
Imaging Wavelength	: 700 - 900 nm (NIR)
Image Capture Time	: < 2 Sec
Capture Mode	: Auto Capture with Built-in Quality Check
Certifications	: CE, FCC, IEC62471, STQC, RoHS, WHQL
Pixel Depth	: 8 Bits/Pixel
Pixel Resolution	: >10 Pixels/mm
Connectivity	: USB 2.0
Capture Volume (W * H)	: Approx 27.5 x 20.5 mm
Device Dimensions	: 93mm X 59mm X 30mm
Weight	: Approx 80 Grams

2 CATEGORY Optical Fingerprint Scanner | MFS500



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 16 mm x 20 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 85 x 51 x 54 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current	: 76 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP54

3 CATEGORY Optical Fingerprint Scanner | MFS500LX



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 16.4 mm x 20 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 85 x 51 x 54 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current	: 83 mA
Interface	: USB 2.0 (Std OTG Supported) & Serial TTL
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP54

4 CATEGORY Optical Fingerprint Scanner | Morvi RX



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 16 mm x 22 mm
Image Size	: 276 x 336 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 62 x 40 x 17 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current	: 85 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health & Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP65

5 CATEGORY Optical Fingerprint Scanner | Morvi BX



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 16 mm x 22 mm
Image Size	: 276 x 336 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 71 x 40 x 30 mm
Operating Voltage	: 5V / 0.5A (USB Powered Device)
Operating Current	: 105 mA
Interface	: USB 2.0 / BLE 4.2 / Serial TTL
Environmental, Health & Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
Device Driver	: WHQL Certified

Fingerprint & IRIS Scanner

6 CATEGORY Optical Scratch Free Sensor

MIDAS



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 18.5 x 23 mm
Image Size	: 300 x 400 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 75 x 43 x 27 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current (Max)	: 90 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health and Safety	: RoHS Certification
FBI PIV Certification	: FAP20 Compliance
STQC Certification	: Yes
IP Rating	: IP54

7 CATEGORY Capacitive Fingerprint Scanner

MAPRO CX



Fingerprint Sensor	: Advanced Capacitive Sensor
Spatial Resolution	: 508 DPI
Sensing Area	: 12.8 mm x 18 mm
Image Size	: 256 x 360 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 58 x 33 x 11 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current (Max)	: 60 mA
Interface	: USB 2.0 / Serial TTL
Environmental, Health & Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP67

8 CATEGORY Optical Fingerprint Scanner

MAPRO OX



Fingerprint Sensor	: Optical Sensor
Spatial Resolution	: 508 DPI
Sensing Area	: 12.8 mm x 18 mm
Image Size	: 256 x 360 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 58 x 33 x 11 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current (Max)	: 50 mA
Interface	: USB 2.0 / Serial TTL
Environmental, Health & Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP54

9 CATEGORY Optical Fingerprint Scanner

MFS100V2



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI
Platen Size	: 16.4mm x 20.0 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 91 x 61 x 54 mm
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current (Max)	: 100 mA
Interface	: USB 2.0
Aadhaar Compliance	: RoHS certification, IEC60950, IS13252(Part1)
Certifications	: STQC, FBI PIV
IP Rating	: IP54

10 CATEGORY Optical Fingerprint Scanner

MFS100



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 DPI / 256 Gray
Platen Size	: 16 mm x 18 mm
Image Size	: 316 x 354 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 87x57x57mm
Operating Current (Max)	: <110 mA
Interface	: USB 2.0
Environmental, Health and Safety	: RoHS Certification
Certifications	: STQC, FBI PIV
IP Rating	: Ip54

Integrated Biometric Device

11 CATEGORY Biometric POS | mTerminal 100



Display	: 7" IPS LCD, 1024 X 600 Resolution, Multi Touch Capacitive Touch Screen With Tuffen Glass
Processor	: 1 GHz Quad Core ARM Processor
RAM	: 1 GB
Inbuilt Storage	: 8 GB Flash Memory
Expansion Slot	: Micro SD Slot Supporting up to 32 GB Memory Card
Audio	: Good Quality Speaker - 1W Speaker
External Keyboard Support	: Through USB or Bluetooth Interface
Connectivity	: Dual 4G/3G/2G Micro SIM Slot, WiFi Interface & Bluetooth
GPS	: Supports GPS and AGPS
USB Ports	: Micro USB OTG as Debug Port, Additional USB2.0 Slave Port
Fingerprint Sensor	: Mantra MFS100 STQC/UIDAI/FBI Certified Fingerprint Sensor
IRIS Sensor	: Mantra MIS100V2 STQC/UIDAI Certified IRIS Sensor
Battery	: Swappable & Rechargeable 10000mAh Li-ion/Li-Polymer battery

12 CATEGORY Biometric Solution | mTerminal200



Display	: 7" IPS LCD, 1024 X 600 Resolution, Multi Touch Capacitive Touch Screen With Tuffen Glass
Processor	: 1 GHz Quad Core ARM Processor
RAM	: 1 GB
Inbuilt Storage	: 8 GB Flash Memory
Expansion Slot	: Micro SD Slot Supporting up to 32 GB Memory Card
Audio	: Good Quality Speaker - 1W Speaker
Keyboard	: Alphanumerical Keyboard
Connectivity	: Dual 4G/3G/2G Micro SIM Slot, WiFi Interface & Bluetooth
GPS	: Supports GPS and AGPS
USB Ports	: Micro USB OTG as Debug Port, Additional USB2.0 Slave Port
Fingerprint Sensor	: Mantra MFS100 STQC/UIDAI/FBI Certified Fingerprint Sensor
IRIS Sensor	: Mantra MIS100V2 STQC/UIDAI Certified IRIS Sensor
Battery	: Swappable & Rechargeable 10000mAh Li-ion/Li-Polymer battery

13 CATEGORY An Elegant Hand Held Device | mDESK8



Processor	: Mediatek MT8735V/W Quad Core (Cortex-A53), 1.3 GHz
Display	: 8 Inch Diagonal (800 X 1280) IPS Display With Capacitive Touch
Memory	: 2 GB LPDDR3 RAM, 16GB Embedded Multi Media Card (eMMC)
GPS	: Integrated GPS Supports A-GPS, GLONASS, Geo Tagging
Connectivity	: Bluetooth® 4.0 + LE Connectivity, 4G/LTE : (GSM 850/900/1800/1900, WCDMA B1&B8, LTE (Band 3 & 40)
Camera	: Front : 2MP Fixed Focus, Rear : 5MP Auto Focus
Ports/Slots	: Micro USB 2.0 OTG, USB 2.0 Slave, Charging Port, Micro SIM Card Slot, Micro SD Card Slot
Battery	: 6000 mAh Li-ion Polymer, 22.8Whr
Weight	: Approx 800 Grams
Fingerprint Scanner	: Mantra MFS100 STQC/UIDAI/FBI Certified Fingerprint Sensor
IRIS Sensor	: Mantra MIS100V2 STQC/UIDAI Certified IRIS Sensor

14 CATEGORY Rugged Mechanical Design | MFSTAB-4G



Display	: 7 inch TFT LCD
Processor	: 1.3 GHz Quad Core, 64bit
RAM	: 2GB RAM
Memory	: 8GB with Expandable up to 32GB
OS	: Android 8.1 GMS
Display resolution	: 1024 x 600 Pixels
Audio Jack	: YES
Wifi	: 802.11b/g/n 2.4GHz
Bluetooth	: Bluetooth Classic
SIM Slot	: Supported 4G Bands
GPS	: GPS/AGPS
Camera	: 5 MP AutoFocus Rear Camera with LED

15 CATEGORY Integrated IRIS Device | MISTAB



Processor	: 1.3 GHz Quad Core
Display	: 7 Inch or Higher ; 1024x600 Resolution
Memory	: Internal Memory : 8 GB RAM - 1 GB
Camera	: 5 MP AutoFocus Rear Camera with LED
Battery	: 6000 mAh
Spatial Resolution	: > 50% @ 1.0 LP/mm
Pixel Resolution	: > 10 Pixels/mm
Image Margins Left & Right	: >= 0.6x IRIS Radius
Imaging Wavelength	: 700-900 nm
Pixel Depth	: 8 Bits/Pixel
Capture Mode	: Auto Capture With Built-in Quality Check
Capture Time	: < 2 sec

OEM Scanner Module

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CATEGORY

Single IRIS
Sensor

Model: MIS100V2
Module : MIS100V2



Image Resolution	: 640 x 480 Pixel
Iris Diameter (in Pixel)	: > 220
Spatial Resolution or Contrast	: > 50% @ 1.0 LP/mm
Imaging Wavelength	: 700 - 900 nm (NIR)
Image Capture Time	: < 2 Sec
Capture Mode	: Auto Capture with Built-in Quality Check
Certification	: RoHS Compliance
Pixel Depth	: 8 Bits/Pixel
Pixel Resolution	: 10 Pixels/mm
Connectivity	: USB 2.0
Capture Volume(W * H)	: Approx 27.5 x 20.5 mm
Device Dimension	: 50 x 35 x 25 mm
Weight	: Approx 13 Grams

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CATEGORY

Optical Fingerprint
Scanner

Model: MFS500
Module : MOPv2.0



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 +/- 10 DPI
Platen Size	: 16 mm x 20 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: < 2 Sec
Approx Dimensions (L x W x H)	: 61 x 23 x 28.5mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 76 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
FBI PIV Certification	: Compliance
STQC Certification	: Yes
IP Rating	: IP54 (Only for Platen Area)

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CATEGORY

Optical Fingerprint
Scanner

Model : MFS500 LX
Module : MOPv3.0



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 +/- 10 DPI
Platen Size	: 16 mm x 20 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: < 2 Sec
Approx Dimensions (L x W x H)	: 61 x 35 x 29 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 83 mA
Interface	: USB 2.0 (Std/OTG Supported) & Serial TTL
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
FBI PIV Certification	: Compliance
STQC Certification	: Yes
IP Rating	: IP54 (Only for Platen Area)

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CATEGORY

Optical Fingerprint
Scanner

Model : Morvi RX
Module : MOPv4.0



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 +/- 10 DPI
Platen Size	: 16 mm x 22 mm
Image Size	: 276 x 336 Pixels
Image Capture Speed (Continuous)	: <2 Sec
Approx Dimensions (L x W x H)	: 45 x 31 x 13 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 85 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health and Safety	: RoHS certification, IEC60950, IS13252 (Part1)
FBI PIV Certification	: Compliance
STQC Certification	: Yes
IP Rating	: IP65 (Only for Platen Area)

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CATEGORY

Optical Fingerprint
Scanner

Model : Morvi BX
Module : MOPv5.0



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 +/- 10 DPI
Platen Size	: 16 mm x 22 mm
Image Size	: 276 x 336 Pixels
Image Grayscale	: 256 (8 - Bit Gray Level)
Approx Dimensions (L x W x H)	: 47 x 31 x 14 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 105 mA
Interface	: USB 2.0 / Serial TTL
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
FBI PIV Certification	: Compliance
STQC Certification	: Yes
Device Driver	: WHQL Certified with Unique Serial Number

OEM Scanner Module

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CATEGORY

Capacitive
Fingerprint Scanner

Model : MAPRO CX
Module : MOPv6.0



Fingerprint Sensor	: Advanced Capacitive Sensor
Spatial Resolution	: 500 +/- 10 DPI
Sensing Area	: 12.8 mm x 18 mm
Image Size	: 256 x 360 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 35 x 23 x 6.2 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 60 mA
Interface	: USB 2.0 / Serial TTL
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
STQC Certification	: Yes
FBI PIV Certification	: Compliance
IP Rating	: IP67 (Only for Platen Area)

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CATEGORY

Optical Fingerprint
Scanner

Model : MAPRO OX
Module : MOPv7.0



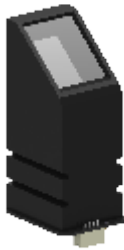
Fingerprint Sensor	: Optical Scratch Free Sensor
Spatial Resolution	: 500 +/- 10 DPI
Sensing Area	: 12.8 mm x 18 mm
Image Size	: 256 x 360 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 41 x 27 x 7.5 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 50 mA
Interface	: USB 2.0 / Serial TTL
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
STQC Certification	: Yes
FBI PIV Certification	: Compliance
IP Rating	: IP54 (Only for Platen Area)

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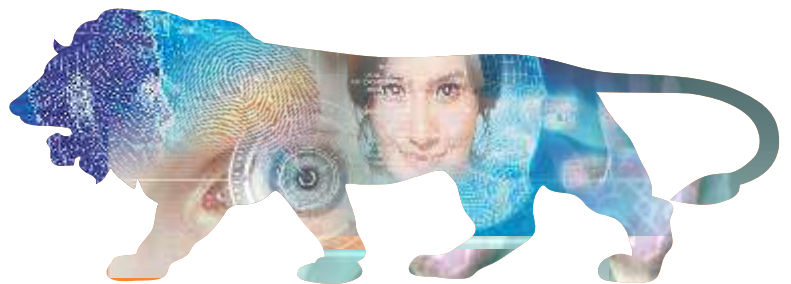
CATEGORY

Optical Fingerprint
Scanner

Model : MFS100 V2
Module : MOPv1.2



Fingerprint Sensor	: Optical Scratch Free Sensor
Image Resolution	: 500 +/- 10 DPI
Platen Size	: 16 mm x 20 mm
Image Size	: 296 x 354 Pixels
Image Capture Time	: <2 Sec
Approx Dimensions (L x W x H)	: 62 x 23 x 28.5 mm
Operating Voltage	: 5 V +/- 5 % (USB Powered Device)
Operating Current	: 100 mA
Interface	: USB 2.0 (Std/OTG Supported)
Environmental, Health and Safety	: RoHS Certification, IEC60950, IS13252 (Part1)
FBI PIV Certification	: Compliance
STQC Certification	: Yes
IP Rating	: IP54 (Only for Platen Area)



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