

# INDIGINIOUS

## BIOMETRICS INNOVATION

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*Innovation that counts*



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*Innovation that counts*



BIOMETRICS  
**IDENTITY REVOLUTION**



PRODUCT DIVISION

www.mantratec.com



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## WIFI & GPRS BASED ANDROID TERMINAL



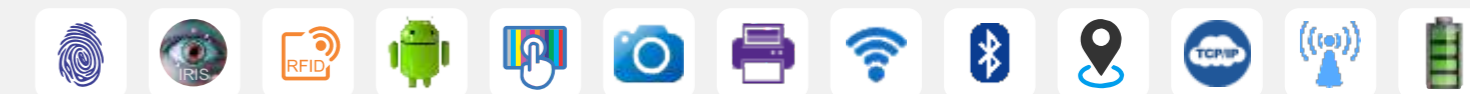
## WIFI & GPRS BASED ANDROID TERMINAL

The MFSTAB Terminal is all-in-one, affordable, WiFi enabled terminal. It can be used for various applications such as Time Attendance, Access Control, Workflow Management, Canteen Management, Visitor Management, Worker Management etc. This innovative Biometric clock will dramatically improve your ability to monitor your workforce movements during their working patterns and with features that gives you better time and management reporting.

The MFSTAB is suitable for both basic to moderately complex time and attendance requirements. The 7" Touch screen offers a wide range of possibilities, starting from the classical Time recording App to a complex Factory Data Collection App or a high-security solution with access queries supported by a comparison of live images with stored images or audio-visual communication to a Service Command Centre, e.g. for Data centres. Everything is possible.

### SPECIFICATIONS

- Lowest FRR and FAR
- ISO Compatible Fingerprint Templates and Images
- ANSI Compatible Fingerprint Templates and Images
- 500 DPI STQC/Aadhaar approved Fingerprint Sensor
- CE, FCC, IEC60950, RoHS Certified Fingerprint Sensor
- Capacitive 7" Touchscreen of 600x1024 pixels
- Front VGA Camera
- 8GB Memory with 1 GB RAM
- WIFI Enabled
- GPRS/EDGE Enabled, 2G, 3G, GPS
- 1.3 GHz Quad Core Processor
- Dual SIM Card Support
- Android 6.0 OS
- 1:1 or 1:N Fingerprint Matching functions





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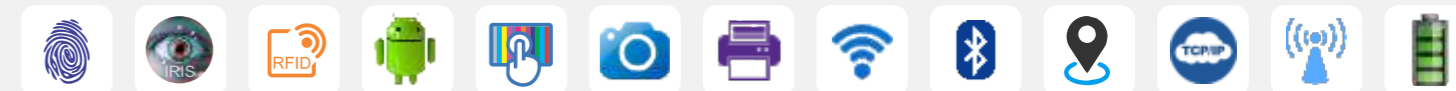


## RUGGED MECHANICAL DESIGN

Separate port for pendrive connection | High resolution camera for photo capture  
FBI PIV compliance high quality fingerprint sensor | 1:1 & 1:N matching

### SPECIFICATIONS

- Processor 1.2 GHz Quad Core
- Display 7 inch or higher, 1024x600 resolution
- Internal memory 8 GB
- Connectivity Wi-Fi 802.11 b/g/n | Bluetooth v4.0
- Audio Microphone with High Amplitude Speakers
- Rear Camera with auto focus and 5 MP, LED flash
- RAM - 2 GB
- Location Technology GPS
- Battery 6000 mAh





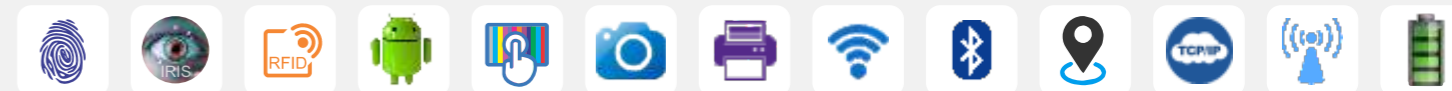
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## AN ELEGANT HAND HELD DEVICE

### SPECIFICATIONS

- STQC & PIV Approved Fingerprint Sensor & IRIS sensor
- 5MP AF & 2MP FF Camera for QR Code Reading
- 16Gb Flash for storage of Fingerprint Templates/Photos with Transactions
- Quad Core Processor & Android Marshmallow
- 3G/4G/GPS/Bluetooth/WiFi Connectivity
- External Power Button, Volume Button, SIM & SD card slot, USB 2.0





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## ATTENDANCE & ACCESS CONTROL TERMINAL

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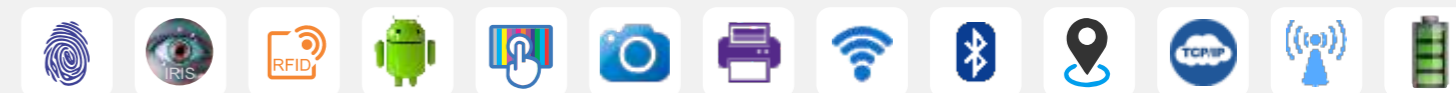


## WIFI & GPRS BASED ANDROID TERMINAL

Separate port for pendrive connection | High resolution camera for photo capture  
| FBI PIV & STQC Certified good quality fingerprint sensor | RJ45 connection for  
ethernet connectivity | 1:1 & 1:N matching

### SPECIFICATIONS

- Operating Voltage 5 Vdc/2 Amp
- Dimensions (L x W x H) 240 x 156 x 70 mm
- Weight Approx 625 grams





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MOBILE IRIS SCANNER

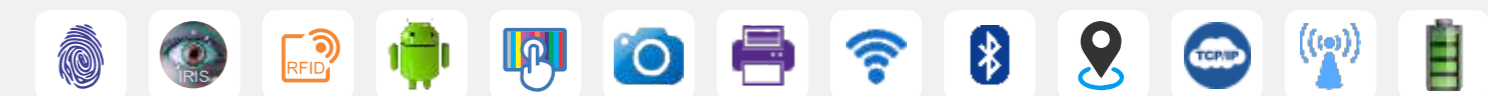
## MOBILE IRIS SCANNER

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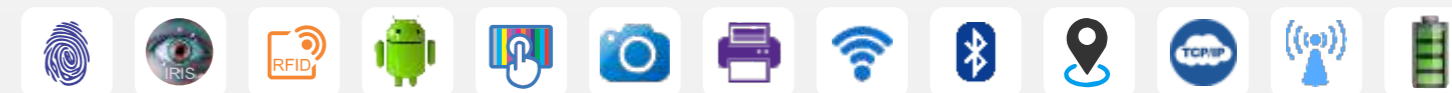
## SINGLE IRIS SENSOR

### OPTICAL AND IMAGING PERFORMANCE

- Image Resolution 640 x 480 Pixel
- Iris Diameter (in Pixel) > 220
- Spatial Resolution or Contrast > 60% @ 2.0 Lp/mm
- Pixel Resolution > 22 Pixel/mm
- Contract Min 70 Gray levels between IRIS & Sclera, Min 50 Gray level between IRIS & Pupil
- Imaging Wavelength 700 - 900 nm (NIR)
- Pixel depth 8 Bits/Pixel
- Image capture time < 2 Sec
- Capture mode Auto and Manual

### ELECTRO-MAGNETIC COMPATIBILITY

- ESD Test as per IEC61000-4-2 Type of discharge: contact Type, Test
- Voltage: Air discharge+-8 KV ,contact type+-4Kv
- Radiated Emission FCC part15B/IEC:CISPR 22 CLASS B standard
- Radiated Immunity IEC/EN 61000-4-3:2006+A2:2010
- Operational Performance FRR < 1% at FAR of 1 in 100000 with Kind7
- Safety / LED safety standard IEC 62471:2006-07 Exempt group
- Occupational Health-Safety RoHS Certification





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## SINGLE IRIS SENSOR

### SPECIFICATIONS

- /// Fingerprint Sensor Optical Scratch free sensor
- /// Image Resolution 500 DPI +/- 5 %
- /// Image Size 316 x 354 Pixels
- /// Active Platen size 16 mm x 18 mm
- /// Image Grayscale 256 (8 - bit gray level)
- /// Image Type Any lossless image format
- /// Geometric Distortion < 0.027
- /// Capture & Verification Standards ANSI-378, ISO 19794-2 and ISO 19794-4
- /// Image Capture Speed (continuous) 30 FPS
- /// Image Capture Speed (snapshot) < 0.2 Sec

### COMPLIANT TO FOLLOWING STANDARD

- |  |  |
|--|--|
| /// Biometric data interchange format ISO 19794-2 for minutiae template & ISO 19794-4 for Image Template | /// ESD Tolerance IEC 61000-4-2 criteria A |
| /// Environmental, Health and Safety RoHS Compliance   | /// STQC Certification                     |
| /// Safety IEC60950  | /// Durability IP54 (Test as per IEC60529) |
| /// EMC Compliance CE & FCC class A  | /// Drop Test As per 60068-2-31            |
|  | /// Vibration Test As per IEC60068-2-6     |



WORLD'S SLIMMEST FAP 10 OPTICAL SENSOR (THICKNESS 13.0MM)



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- /// Image Type Any lossless image format
- /// Geometric Distortion < 0.027
- /// Capture & Verification Standards ANSI-378, ISO 19794-2 and ISO 19794-4
- /// Image Capture Speed (continuous) 30 FPS
- /// Dimensions (L x W x H) 70 x 40 x 16.5 mm

COMPLIANT TO FOLLOWING STANDARD

- |   |  |
|---|--|
| /// Biometric data interchange formate ISO 19794-2 for minutiae template & ISO 19794-4 for Image Template | /// ESD Tolerance IEC 61000-4-2 criteria A |
| /// Environmental, Health and Safety RoHS Compliance  | /// STQC Certification Complince           |
| /// Safety IEC60950   | /// FBI PIV Certificate Complince          |
| /// EMC Compliance CE & FCC class A   | /// Durability IP65 (Test as per IEC60529) |
|   | /// Drop Test As per 60068-2-31            |





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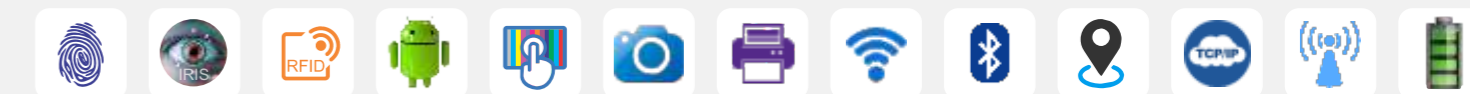
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- /// Image Capture Speed (snapshot) < 0.2 Sec
- /// Light Source RED LED

### COMPLIANT TO FOLLOWING STANDARD

- /// Biometric data interchange formate ISO 19794-2 for minutiae template
- /// Environmental, Health and Safety RoHS Compliance
- /// Safety IEC60950
- /// EMC Compliance CE & FCC class A
- /// ESD Tolerance IEC 61000-4-2 criteria A
- /// STQC & FBI PIV Certification Compliance
- /// Durability IP65 ( Sensor surface ) & IP54 for Device





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## WIFI & GPRS BASED ANDROID TERMINAL

### SECURITY FEATURES

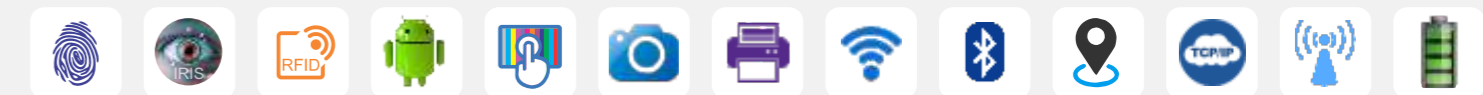
- Asymmetric Key for Sign Bio-Data and Encrypt Symetric Key using RSA-2048 algorithm
- Symetric Key for Encrypte fingerprint templet Packet using AES-256 bits algorithm
- Device has Hardware IP core for True Random no Generator (TRNG)
- Device has Hardware based Crypto Accelerator Engine for fast encryption
- All device under tracebility of device provider and client

### SPECIFICATIONS

- Fingerprint Sensor Optical Scratch free sensor
- Image Resolution 500 DPI +/- 5 %
- Image Size 316 x 354 Pixels
- Active Platen size 16 mm x 18 mm
- Image Grayscale 256 (8 - bit gray level)
- Image Capture Speed < 1 Sec

### COMPLIANT TO FOLLOWING STANDARD

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- Durability IP65 (Test as per IEC60529), IP65 ( Sensor surface )





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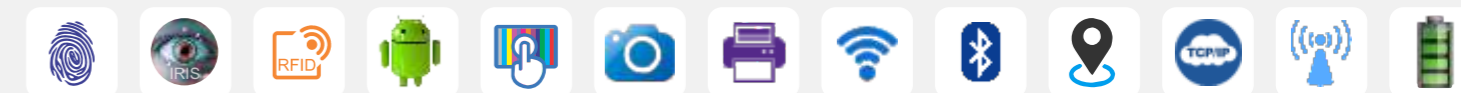


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