

# MANTRA

# MT100

## Biometric Terminal

### Ultimate Terminal for Management Solutions

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.



Finger Capture



Android OS



SD & SIM Card



3G / 4G



WiFi & BT



LAN



IRIS Scanner



QR & Barcode  
Scanner



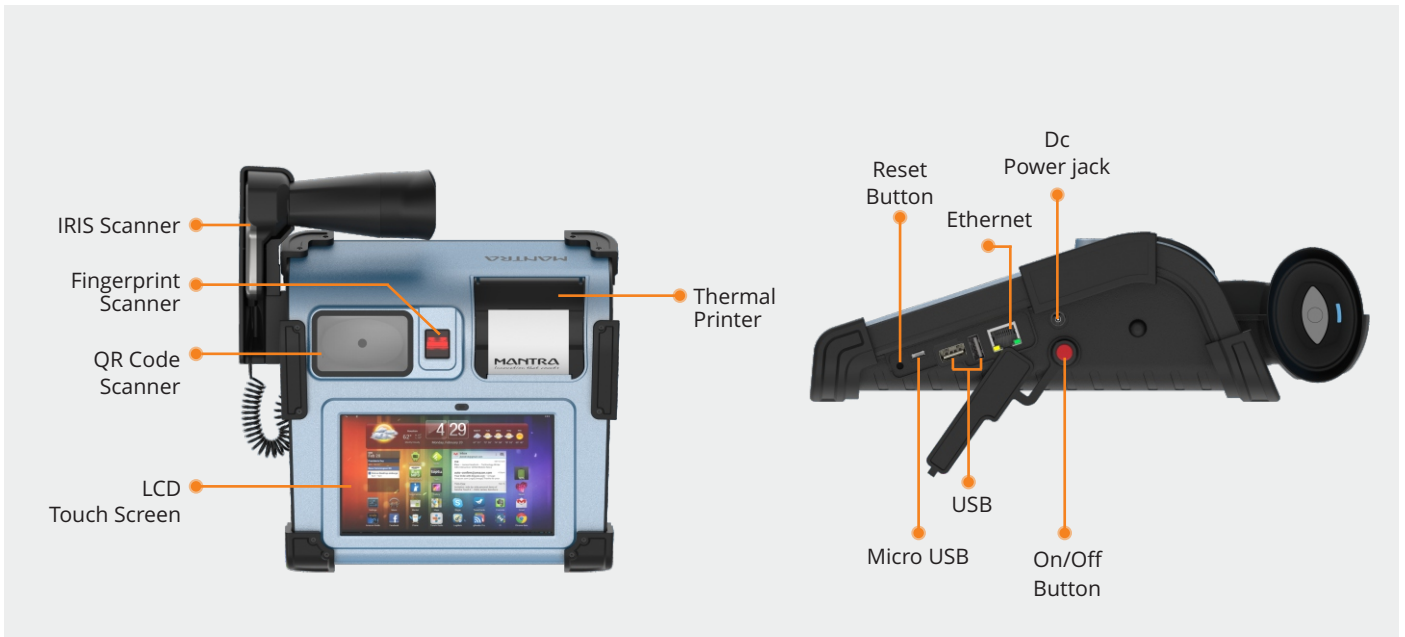
Thermal Printer



USB 2.0



# Ultimate Terminal for Management Solutions



## Introduction

Mantra MT100 is with IRIS and Fingerprint Terminal, developed based on the latest biometric technology. The use of an IRIS and fingerprint biometrics makes it more secure for any transaction and helps to increase the overall operational efficiency of the business.

The MT100 biometric terminal runs on the Android operating system and is powered by an ARM Cortex A53 @2.0 GHz quad-core processor. It also includes 2 GB of RAM and 32GB of flash memory. The device supports an external keyboard, which can be connected through a USB or Bluetooth interface. The device is designed to accommodate the rising use of biometric authentication with an STQC-certified fingerprint and IRIS sensor.

## Main Features

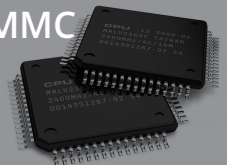
IRIS Scanner



Thermal Printer

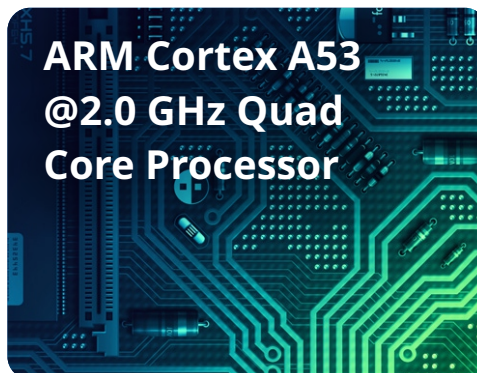


2GB RAM  
+ 32GB EMMC



Fingerprint Scanner

ARM Cortex A53  
@2.0 GHz Quad  
Core Processor



Certifications



QR &  
Barcode  
Scanner



7 Inch, IPS LCD  
W1024 \* H600  
with 16M colors



Scratch Resistant Multi-Point Capacitive  
Touch Screen with 6H Toughen Glass



# Ultimate Terminal for Management Solutions



## Specification



### Hardware & System

CPU	: ARM Cortex A53 @2.0 GHz Quad Core Processor
Memory	: 2GB RAM + 32GB eMMC
Operating System	: Android 13
QR & Barcode Scanner	: 8MP AF camera with High brightness Flash LED
Audio	: High-Quality 1W Speaker for Announcements
Control Buttons	: 1x Power On/Off, 1x Reset Key
Dimensions (in mm)	: 237 x 236 x 87mm



### Display & Touch

Display	: 7" IPS LCD with resolution (1024 X 600) with 16M colors
Touch	: Scratch Resistant Multi-Point Capacitive Touch Screen with 6H Toughen Glass



### IRIS Scanner (Optional)

Spatial Resolution	: > 50% @ 1.0 LP/mm
Pixel Resolution	: > 10 Pixels/mm
Image Margins Left & Right	: >= 0.6x IRIS Radius
Image Margins Top & Bottom	: >= 0.2x IRIS Radius
Imaging Wavelength	: 700-900 nm
Pixel Depth	: 8 Bits/Pixel
Certification	: CE, FCC, RoHS, BIS, IP54, STQC L0, IEC 62471



### Fingerprint Sensor

Fingerprint Type	: Scratch Free Optical FAP10 Sensor
Fingerprint Image	: 276 x 336 Pixels (Platen Area: 14.0 mm x 17.0 mm)
Image Specs	: 500DPI, 8 Bit Grayscale
Certifications	: CE, FCC, RoHS, STQC L1, FBI PIV, EN/IEC 62368-1, IS13252 Part I

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## Specification



### Thermal Printer

Printer	: Integrated 2" Thermal Printer
Printing Speed	: 70mm/s
Effective Printing Width	: 48mm
Style	: Black and White



### Sensor

Accelerometer	: 3-AXIS Accelerometer
Other Sensor	: Ambient Light Sensor



### Electrical

Power Adapter	: Input: 90 to 275V AC , 50Hz. with surge protection Output: 5V, 3A DC
Battery	: Swappable & Rechargeable 8940mAH Li-on battery
Charging Connector	: DC Jack
Input Power	: 5V, 3A DC



### Interface

4G/3G/2G	: 2G GSM/GPRS/EDGE: 850/900/1800/1900 3G WCDMA: B1/B2/B5/B8 4G FDD: B1/B3/B5/B7/B8/B38/B40/B41 4G TDD: All Band (Optional: External Antenna)
SD Card	: Micro SD slot supporting up to 256 GB memory card
Wi-Fi 2.4GHz & 5.0 Ghz	: IEEE 802.11 a/b/g/n/ac with Flex antenna
Ethernet 10/100 Mbps (Optional)	: Ethernet 10/100 Mbps
Bluetooth	: BT & Bluetooth 5.1, 16DB Power TX Capacity
GPS	: 16 Channel NMEA Compliant with Flex Antenna, AGPS Supported
SIM Slot	: 2 x Micro SIM Slot
SAM Slot	: 2 x SAM Slot
Micro USB	: 1 x Micro USB Port for PC Connection as debug port
USB	: 2 x USB2.0 Type A



### Environmental

Operating Temperature	: 0°C to +50°C
Storage Temperature	: - 20°C to +85°C
Humidity (Operating / Storage)	: < 90% RH, Non-condensing



### Certifications

Certifications	: CE, FCC, RoHS, BIS, IP54
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# MANTRA

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**MANTRA**

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