MP30 Ultra-Portable Mobile Label Printer

Keep Frontline Operations Moving with Reliable Mobile Printing

From field service and logistics to retail and mobile inventory operations, workers often need to create labels wherever the task takes place. The MP30 Ultra-Portable Mobile Label Printer delivers convenient on-the-go printing with a compact design, fast direct thermal printing, flexible connectivity, and compatibility with common printing environments.

With 203 dpi print resolution, print speeds of up to 120 mm/s, and support for media widths from 25 mm to 80 mm, the MP30 helps workers quickly produce labels, receipts, and other mobile print materials without returning to a fixed workstation. Its support for multiple printer languages, including TSPL, CPCL, ZPL, and ESC/POS, helps simplify integration with a wide range of business applications.

Powered by a 7.4 V 2600 mAh rechargeable lithium-polymer battery, the MP30 is designed for extended mobile operation, supporting more than 230 meters of printing per charge under specified conditions. Combined with Bluetooth 5.0, Wi-Fi 802.11a/b/g/n connectivity, USB Type-C charging, and NFC tap-to-pair, the MP30 provides the flexibility required for modern mobile workflows.

The MP30 brings together portability, performance, and application flexibility to help frontline teams print whenever and wherever the job requires.



Fast Printing for Daily Tasks

The MP30 uses direct thermal printing technology with 203 dpi resolution and supports print speeds of up to 120 mm/s. A maximum print width of 72 mm and maximum print length of 2286 mm provide flexibility for different label and receipt formats.

Whether printing identification labels, inventory tags, or transaction documents, the MP30 is designed to support frequent mobile printing requirements.

Designed for Mobile Productivity

Print Where the Work Happens

Mobile workers should not need to interrupt their workflow to access a desktop printer. The MP30 provides a portable printing solution for applications such as field service, logistics, retail, and mobile inventory labeling.

Its compact mobile form factor allows users to carry printing capability directly to the point of activity, helping reduce unnecessary movement and improve operational efficiency.

Support Diverse Media Applications

The MP30 supports thermal paper and label media with widths ranging from 25 mm to 80 mm and thicknesses from 60 µm to 170 µm. It supports gap detection and dual black-mark detection, allowing the printer to work with different label formats and media designs.

Support for linerless media further expands its suitability for applications where reducing waste and improving workflow efficiency are important.

MP30: Ultra-Portable Mobile Label Printer
Journey through the myriad capabilities of the MP30 Ultra-Portable Mobile Label Printer. Immerse yourself in its sophisticated functionalities at: **www.meferi.com/mp30**

Simple Connection and Integration

Connect Through Multiple Interfaces

The MP30 supports multiple connection options, including USB Type-C, Bluetooth 5.0, and 802.11a/b/g/n Wi-Fi, providing flexible ways to integrate mobile printing into different operational environments for a variety of frontline workflows across retail, logistics, field service, and inventory operations.

With NFC tap-to-pair, the MP30 can further simplify pairing and connection setup for compatible mobile workflows. Instead of manually searching for devices or navigating through multiple pairing steps, users can quickly establish a connection through a simple tap-based interaction when supported by the device configuration.

By reducing setup complexity and minimizing pairing-related support requirements, the MP30 helps improve productivity for both frontline workers and IT teams deploying mobile printing solutions.

Compatible with Existing Printing Applications

Supporting TSPL, CPCL, ZPL, and ESC/POS printer command languages, the MP30 helps businesses integrate mobile printing into applications that already rely on common printer-control environments.

Support for Android, iOS, and Windows platforms further improves deployment flexibility across different user devices.

Adapt Output for Different Workflows

The MP30 supports a range of built-in fonts, including commonly used single-byte fonts and multiple Asian language character sets. It also supports data and image printing functions, helping businesses create labels and documents suitable for different regions and applications.

Built for Convenient Everyday Operation

Clear Status Visibility

A built-in 128 × 32 OLED display provides users with important printer information, helping them quickly understand device status during daily operation.

The printer also provides power, configuration, paper-feed controls, and audible notifications to simplify interaction in the field.

Long-Lasting Battery Performance

The MP30 is equipped with a 7.4 V 2600 mAh lithium-polymer battery, supporting more than 160 hours of standby time and more than 230 meters of printing per charge under specified conditions.

A removable battery design allows easier replacement and supports continued operation in mobile environments.

Convenient Charging and Maintenance

USB Type-C charging and the included 5 V / 2 A power adapter provide convenient charging options. The battery supports more than 300 charge cycles, helping maintain long-term usability in demanding daily operations.

Reliable Performance for Business Environments

Designed for Everyday Reliability

The MP30 includes protection mechanisms such as over-temperature monitoring, paper detection, gap detection, black-mark detection, and cover-open detection to help maintain stable printing operation.

Flexible Operating Conditions

The printer supports operating temperatures from -10° C to 50° C and storage temperatures from -20° C to 60° C, with humidity tolerance from 10% to 90% RH, non-condensing.

A Practical Mobile Printing Partner

With its combination of fast direct thermal printing, flexible connectivity, broad command-language compatibility, long battery endurance, and compact mobile design, the MP30 helps frontline teams create labels and documents wherever work takes place.

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Product Information

Product model	MP30
Product name in Chinese and English	Ultra-Portable Mobile Label Printer
Positioning and primary use cases	Field service, logistics, retail, and mobile inventory labeling

Print Performance

Print method	Direct thermal
Print resolution	203 dpi / 8 dots per mm
Maximum print speed	4.72 in/s (120 mm/s)
Maximum print width	2.83 in (72 mm)
Maximum print length	90.0 in (2286 mm)
Effective print dots per line	576 dots
Print darkness / heat levels	The default value is 4, and it can be set between 1 and 7.
Media feed accuracy	±1 mm
Time to first label	1s

Printhead

Printhead type	Temperature-sensitive
Printhead life	Max: 50KM

Printer Languages

Printer command languages	TSPL, CPCL, ZPL, ESC/POS
ZPL compatibility level	ZPL/ZPL II
Built-in fonts	Commonly used single-byte fonts: FONT 0 to FONT 10 Simplified Chinese (GB18030): 16×16, 20×20, 24×24, 32×32, 48×48 Traditional Chinese (BIG5): 24×24 Korean (KSC5601): 24×24
Supported languages and character sets	English, Russian, Arabic, Thai, Simplified/Traditional Chinese, Japanese, Korean; numbers and symbols

Printable Content

Supported 1D barcodes	Supported 1D/2D barcodes
Supported image formats	Supports printing of monochrome image files (such as PCX and BMP) and allows downloading to FLASH/DRAM.
Graphics and label storage	Graphics-heavy label support;

Processor & Memory

RAM	8 MB RAM
Flash memory	16 MB Flash

Media

Supported media types	Thermal paper, label paper
Media width	0.98-3.15 in (25-80 mm)
Media thickness	60-170 µm
Maximum roll outer diameter	1.97 in (50 mm)
Minimum / maximum label length	Max print length is 2286 mm
Black-mark size, position, and reflectance	Dual black-mark detection supported
Media loading and print-side orientation	Print side down
Tear-off method	Tear bar
Linerless media support	support

Sensors

Out-of-paper detection	Through-beam sensor, reflective sensor
Gap detection	Left sensor can detect gaps
Dual black-mark detection	Left sensor, can detect black-mark on both sides
Cover-open detection	The flip cover opening can trigger it
Over-temperature sensor	The threshold is 1750, which is 175°F (about 79.4°C). When the temperature exceeds this, the print unit will trigger a hot error. It will resume working once the temperature drops below 60 degrees.

Connectivity

USB interface	USB Type-C
USB data modes and driver	Printer class
Wi-Fi standards	802.11a/b/g/n
Wi-Fi security	WPA2
Wi-Fi provisioning and modes	STA
Bluetooth version	Bluetooth 5.0
Bluetooth protocols and profiles	SPP/BLE
Bluetooth / Wi-Fi operating range	10 m

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NFC functions and configuration	Tap to printer、Tap to pair BlueTooth (optional)
Concurrent connections and auto-reconnect	Bluetooth can only connect to 1 BLE device

System & Software

Supported operating systems	Android / IOS / Windows
Windows driver	SmartPrinterSetup, v1.3.0.2, x86、x64
Android / iOS SDK	printersdk, v1.2.2, SmartPrintSDK Demo
Firmware update method	tool

Display & Controls

Display	128 × 32 OLED
Power / configuration button	Power button also acts as configuration button
Paper feed button	Present
Buzzer	Present

Battery & Power

Battery technology	Li-polymer battery
Battery capacity	7.4 V, 2600 mAh (19.24 Wh)
Battery removability	Removable
Battery cycle life	>300 cycles
Charging time	Approx. 4 hours
Standby time	>160 h
Print mileage per charge	>230 m (12.5% print rate)
Power adapter	Standard accessory: 5 V / 2 A adapter
Charging interface and protocol	USB Type-C
Low-battery protection and indication	screen prompt：Please charge!

Physical

Dimensions (L × W × H)	116 × 114 × 62.5 mm (4.57 × 4.49 × 2.46 in)
Weight with battery	386 g / 13.62 oz
Battery weight	110 g / 3.88 oz
Housing color	PC+ABS, Black
Housing material	ABS
Carrying and mounting options	Optional shoulder strap, belt bag, belt buckle

Reliability

IP rating	IP54
Button life	30 presses per minute operation, with a lifespan of up to 40,000 presses
Electrostatic discharge (ESD)	Contact voltage ±4kV; Air voltage ±8kV
Vibration and mechanical shock	Dropped from 1 meters
Cleaning-agent resistance	75% alcohol + lint-free cloth cleaning
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-25°C to 55°C (-13°F to 131°F)
Humidity	20% to 90% RH, non-condensing
Charging temperature	45℃

Compliance

CE / FCC / UKCA	FCC/CE/ROHS/CCC
Wi-Fi / Bluetooth / NFC radio approvals	CMIIT ID:2020AP10597

Accessories

Standard accessories	USB cable; 5 V / 2 A power adapter
Optional consumables	Thermal paper roll
Optional carrying accessories	Shoulder strap, belt bag, belt buckle

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