

M100 Pro

Product Quick Start

1.0

Issue: 01
Date: 2023-08-22

Notice

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied.

Contents

About This Document.....	1
1 Cover.....	1-1
2 Packing List.....	2-1
3 Appearance and Dimensions.....	3-1
4 Installation and Usage.....	4-1
4.1 Installation Description.....	4-1
4.2 Usage Instructions.....	4-1
4.2.1 Connecting a Device to M100 Pro Through a USB Dongle.....	4-2
4.2.2 Connecting a Device to M100 Pro Through Bluetooth.....	4-2
4.2.3 Connecting a Device to to M100 Pro Through a USB Cable.....	4-3
4.2.4 Other Controls.....	4-4
5 Specifications.....	5-1
6 Safety Information.....	6-1
7 FAQs.....	7-1
8 Declaration on Toxic and Hazardous Substances in Electrical and Electronic Product.....	8-1
9 Warranty Card.....	9-1

About This Document

Purpose

This document describes specifications of M100 Pro and how to use it.

Intended Audience

This document is intended for upgrade engineers who must:

- Be familiar with the version information about networking and network elements (NEs) of the current network.
- Be experienced in operating and maintaining the device.

Symbol Convention

The symbols that may be found in this document are defined as follows.

Symbol	Description
 DANGER	Indicates a hazard with a high level of risk which, if not avoided, could result in death or serious injury.
 WARNING	Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
 NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unexpected results. NOTICE is used to address practices not related to personal injury.
 NOTE	Calls attention to important information, best practices, and tips. NOTE is used to address information not related to personal injury, equipment damage, or environment deterioration.

Change History

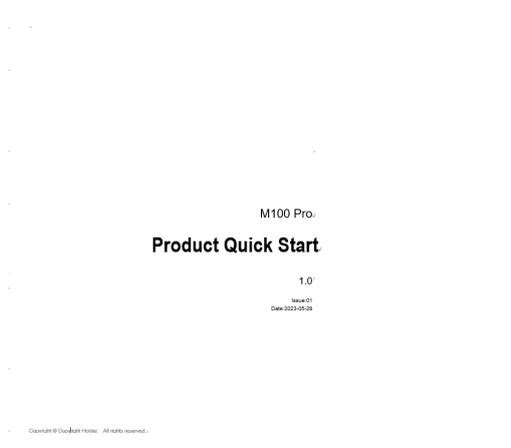
Issue	Date	Change Description
01	2023-08-22	This is the first official release.

1 Cover



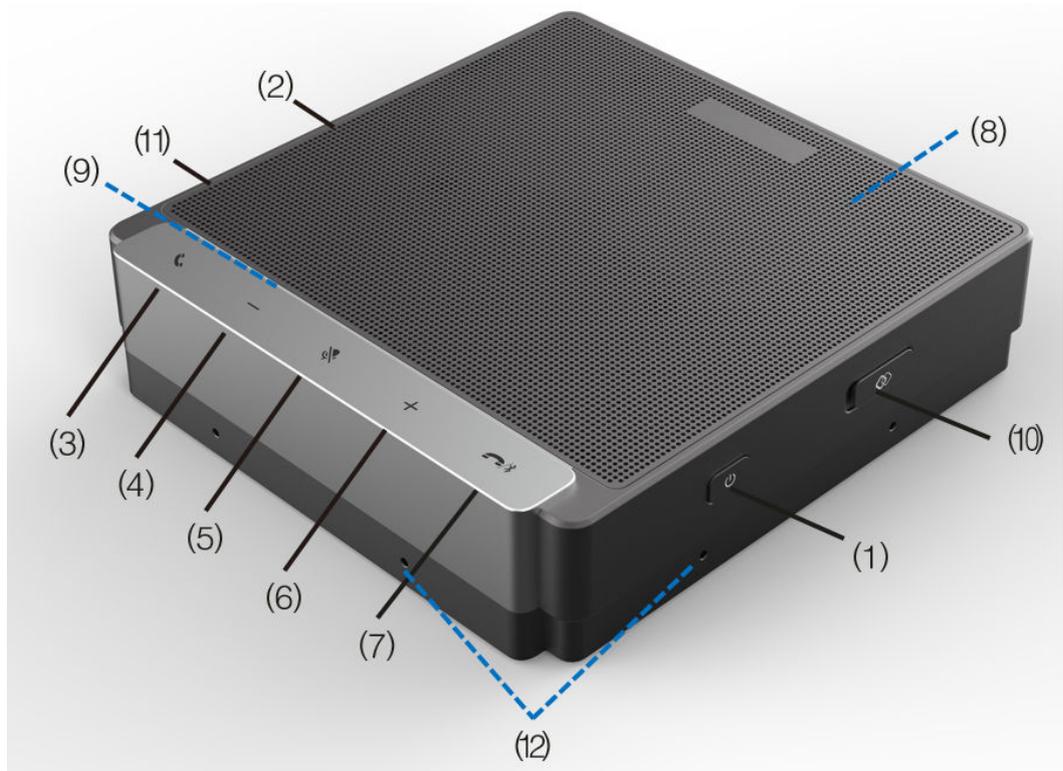
► M100 Pro omnidirectional conference microphone
Getting Started

2 Packing List

 <p>M100 Pro (front view)</p>	 <p>M100 Pro (rear view)</p>
 <p>USB-C to USB-A cable: 5 m; USB-C to USB-C cable: 3 m</p>	 <p>USB dongle</p>
<p>One power adapter, and one USB-C to USB-C cable (1 m)</p> 	 <p>Quick Start (including the certificate of compliance and warranty card)</p>

Note: The actual product may vary, and its color depends on the model of the product to be delivered.

3 Appearance and Dimensions



No .	Component	Function
(1)	Power button	Press and hold this button for 3s to power on or off the device. The device is powered off by default and is automatically powered on when connected to a power supply.
(2)	USB port	USB-C port Audio communication with PC devices
(3)	Answer button	Press it to answer an incoming call. The indicator is off by default. When there is an incoming call, the indicator blinks green. During a call, the indicator is steady green.
(4)	Volume down	The indicator is off by default. When you press the button, the indicator is on.
(5)	Mute button	The indicator is off by default. When the speaker is muted, the indicator is steady red.
(6)	Volume up	The indicator is off by default. When you press the button, the indicator is on.
(7)	Hang-up/Bluetooth button	The indicator is off by default. If you press and hold the button to pair a Bluetooth device, the indicator blinks blue. When the pairing is successful, the indicator is steady on. If you press the button in a call, the call is ended.
(8)	Speaker mesh	It protects the speaker while allowing sound to pass as clearly as possible.
(9)	Status indicator strip	Device startup: The indicator blinks green quickly. Standby: The middle part of the indicator is steady green. Incoming call: The middle part of the indicator blinks green. During a call: The middle part of the indicator is steady green. Volume adjustment: 9 levels, indicated by green Hardware fault: The indicator is steady red. Software fault: The indicator blinks red slowly. You can press the power button to display the battery level.
(10)	Cascading port	Two M100 Pros can be cascaded using a USB-C to USB-C cable via this port.
(11)	Power port	USB-C Power input port
(12)	Sound pickup port	There are two sound pickup ports on each side of the device, and there are eight sound pickup ports in total.

4 Installation and Usage

4.1 Installation Description

M100 Pro can be placed horizontally on a desk, as shown in the following figure.



4.2 Usage Instructions

4.2.1 Connecting a Device to M100 Pro Through a USB Dongle



Step 1 M100 Pro is connected to the power adapter, the M100 Pro is automatically powered on.

Step 2 Find the USB dongle delivered with M100 Pro.

Step 3 Press and hold the Bluetooth button on M100 Pro for 3s to make the indicator blink, in which state M100 Pro starts to pair a Bluetooth device.

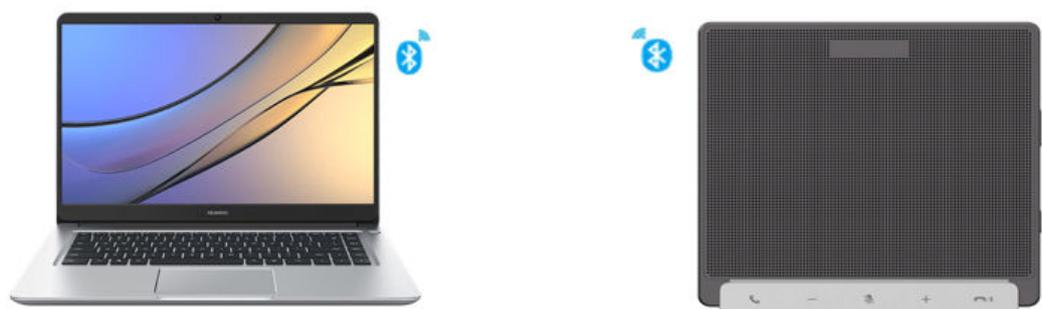
Step 4 Insert the dongle into the Bluetooth device. Wait for 5s until the connection is complete, in which state the Bluetooth indicator is steady blue.

Step 5 (Optional) Connect another M100 Pro. Connect the cascading ports of the master and slave devices through cascading cables. The slave device does not need to be connected to a separate power supply. After the connection, wait for the slave device to start.

----End

4.2.2 Connecting a Device to M100 Pro Through Bluetooth

Devices such as mobile phones and PCs can be connected to M100 Pro through Bluetooth within a distance of up to 10 m, providing excellent audio quality with the speaker and microphone.



Step 1 When M100 Pro is working properly, press and hold the Bluetooth button



for 3s to turn on Bluetooth. When the Bluetooth indicator blinks blue, M100 Pro is searching for Bluetooth devices.

Step 2 Enable Bluetooth on the PC or mobile phone and search for the Bluetooth driver **M100 Pro**.

Step 3 Pair your PC or mobile phone with M100 Pro.

Step 4 Wait for about 10s until a Bluetooth connection is set up between M100 Pro and your PC or phone. When the Bluetooth status indicator is steady blue, the communication starts.

Step 5 (Optional) Connect another M100 Pro. Connect the cascading ports of the master and slave devices through cascading cables. The slave device does not need to be connected to a separate power supply. After the connection, wait for the slave device to start.

----End

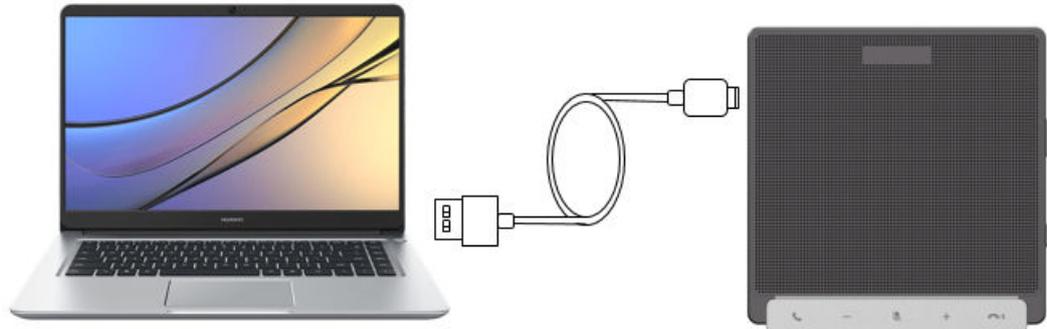
NOTICE

If a Bluetooth connection is not set up within 90 seconds, press and hold the Bluetooth button for 3s to enable Bluetooth and pair again.

M100 Pro supports automatic reconnection for up to two devices that were connected before, once Bluetooth is enabled on M100 Pro.

If no device is connected through a USB cable within 3 minutes, Bluetooth device search is disabled.

4.2.3 Connecting a Device to M100 Pro Through a USB Cable



Step 1 M100 Pro is connected to the power adapter, the M100 Pro is automatically powered on.

Step 2 Connect the USB-A connector of the delivered USB-A to USB-C cable to a device, for example, a PC, and the USB-C connector to M100 Pro.

Step 3 Wait for 10s until M100 Pro is powered on.

Step 4 Wait several seconds for the device to automatically identify and load the driver. The driver needs to be installed only for the first time use. After confirming that all connections are correct, open the third-party conference software on the device and select the corresponding microphone and speaker drivers to start an audio conference.

Step 5 (Optional) Connect another M100 Pro. Connect the cascading ports of the master and slave devices through cascading cables. The slave device does not need to be

connected to a separate power supply. After the connection, wait for the slave device to start.

----End

4.2.4 Other Controls

Solution 1: Adjust the volume of sound pickup and playback via UAC, for example, volume on PC.

Solution 2: Use the upgrade tool to control the microphone.

Step 1 Log in to the upgrade tool and select **M100** from the **Devices** drop-down list.

Step 2 Set and control the microphone through the UAC protocol by referring to the upgrade tool user guide.

----End

5 Specifications

	Feature	Description
Application scenarios	Applicable places	Medium-sized conference room (7 to 15 persons) (<50 square meters) (3*4)(4*5)(6*8)
Part functions	CPU performance	Quad-core A35 1.2 GHz
	Voice pickup distance	360-degree sound pickup with a radius of 4.5 m
	USB input	USB 2.0 Type-C port, mainly used with a PC, supporting UAC
	Cascading	USB 2.0 Type-C port, used to cascade one more M100 Pro.
	Bluetooth	Bluetooth 5.1, which can be enabled when you press and hold the Bluetooth button. Up to 90s is allowed for device pairing, and automatic connection upon power-on is supported. Two devices can be connected at the same time. However, only one can work. When one device is disconnected, the other works. When there is no obstacle, the devices can be connected within 8 m and used within 10 m.
	USB dongle	It takes 50s for M100 Pro to adapt to the USB dongle for the first time. M100 Pro has been paired with the USB dongle by default. The supported maximum pairing distance is 0.5 m. It can connect to M100 Pro from a distance of up to 8 m, and can be used within a range of 10 m.
	Security slot	Supports a physical antitheft lock (7 mm x 3 mm). The antitheft lock needs to be prepared by yourself.
Accessories	USB dongle	Supported
	Cables	5 m USB C-A cable; 3 m USB C-C cable; 1 m USB charging cable; 1 power adapter
Microphone	Voice pickup range	4.5 m sound pickup radius; 360° sound pickup
	Built-in microphone	Array of 8 or more microphones
	Techniques	FPC
5-2	Sampling frequency	48 kHz sampling (USB) 16 kHz sampling (Bluetooth)
	SNR	≥ 65 dB

6 Safety Information

- Before you use the product, refer to the product vendor for version mapping information and to confirm compatibility with other video conferencing devices.
- Use only the standard USB cable supplied by the manufacturer to supply power to the device.
- During installation and commissioning, ensure that the microphone is in good contact with the PC or endpoint through a USB cable.
- Keep the device dry and prevent collision with other objects during storage, transportation, and operation of the device.
- Do not attempt to dismantle the device by yourself. In case of any fault, contact the appointed maintenance center for assistance or repair.
- Place the device on a stable surface.
- Keep the device and its accessories away from children to avoid fatal choking or ingestion.
- Keep the USB port clean and dry to prevent electric shocks or other hazards.
- Before cleaning the device, stop using it and disconnect the power supply.
- The device, packing materials, and any discarded components or units must be disposed of in accordance with local regulations in order to support recycling activities.
- When supplying power to the lower-level M100 Pro through a cascading port, you must use the original factory-standard adapter for the upper-level M100 Pro.
- Indoor use only.

NOTE

Contact your product vendor to learn more about safety precautions. This product is a class A product. Running this device in a living environment may cause radio interference.

7 FAQs

Question 1	Why can't I find the audio driver after I connect M100 Pro to a PC or endpoint?
Answer	Verify that the USB connector and USB port are correctly connected. Verify that the standard USB cable is used. It is recommended that you use another PC and try again.
Question 2	Why can't I control M100 Pro using the UAC protocol?
Answer	Check the port in the device manager of the PC to see whether the USB controller driver is properly installed. If the driver is not properly installed, reinstall it.
Question 3	Why is there no sound after M100 Pro has been working for a period of time?
Answer	Check the working environment. For example, verify the cable is properly connected.
Question 4	When I select the M100 Pro driver for the conference software, a message is displayed, indicating that the driver cannot be opened. Why?
Answer	Check whether other apps on the PC or endpoint are using the camera driver. If so, you are advised to close them and try again.
Question 5	The indicator blinks red after the power supply is connected. Why?
Answer	The standard power adapter of the product is 12 V 1.5 A. Verify that the power adapter is correct, and then reconnect the power supply.
Question 6	If two devices are purchased, can the dongle of a device be used together with the other device?
Answer	The dongle has been paired with the device before delivery and cannot be connected to other devices. For other dongles of M100 Pro, you can use the upgrade tool to restore to the factory settings, copy the Bluetooth name as the dongle name, save the settings, and touch and hold the Bluetooth button for pairing again.

8 Declaration on Toxic and Hazardous Substances in Electrical and Electronic Product

Component	Toxic or Hazardous Substances and Elements					
	Lead(Pb)	Mercury(Hg)	Cadmium(Cd)	Hexavalent Chrome (Cr6+)	Polybrominated Biphenyl(PBB)	Polybrominated Diphenyl Ether(PBDE)
Mechanical part	○	○	○	○	○	○
Board and circuit modules	○	○	○	○	○	○
Cable connectors	○	○	○	○	○	○

Note

This table is prepared in accordance with the provisions of SJ/T 11364.

○: The specified hazardous substance in all of the homogenous materials of this component is below the limit specified in GB/T 26125.

×: The specified hazardous substance in at least one of the homogeneous materials of this component exceeds the limit specified in GB/T 26125.

1. Mechanical parts: The steel, aluminum or copper materials contain lead.

2. Board/Circuit module:

- The PCB pad contains lead.
- Ceramic/Feedthru/Mica capacitor on the board: The porcelain core contains lead.
- The high temperature type solder, used for the connector inside the transformer, contains more than 85% lead.
- Pins and solders of some internal components contain lead.
- The luminescence glass of chip inductor contains lead.
- The high-temperature solder, used for the transistor chip welding, contains lead.
- The glass of resistance layer and protection layer can contain lead.
- Pins and solders of the board IC and power unit and some other components contain lead.
- Cable connector: For most connectors, the metal shell, terminal, and pin contain lead.

9 Warranty Card

Dear user, thank you for using M100 Pro. Please read this warranty card carefully and fill in the required information. Keep the card in a safe place.

Information Registration

Your Name (or Company Name):

Contact		Invoice Number	
Address		Expiration Date	
Telephone		Dealer's Name	
Model		Dealer's Address	
Serial Number		Dealer's Telephone	

Dealer's Seal:

Limited Warranty

We warrant M100 Pros that are purchased from authorized dealers to be free from defects in materials and workmanship, under proper use and in normal conditions, during the expressed warranty period. Special notices:

1. The terms of warranty expressed in the purchase contract enjoy higher validity than the terms expressed within this card. This card shall be used solely as a warranty certificate.
2. The warranty card must be preserved in good condition and free of any scratch or alterations.
3. The warranty card must be presented to the Huawei authorized service technician when the product is being returned for repairs.

