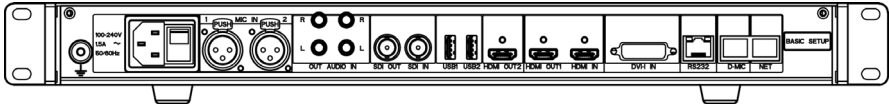
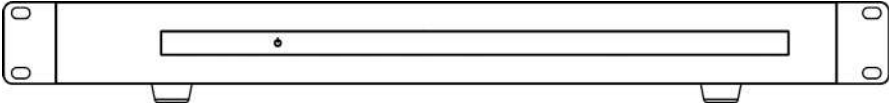


# TP-100



## User Guide

### Copyright Notice

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Warning

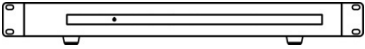








This is class A production. Electromagnetic radiation at specific frequencies may affect the image quality of TV in home environment.

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# 1 Packing List

When unpacking, please check and confirm all accessories that should be provided.

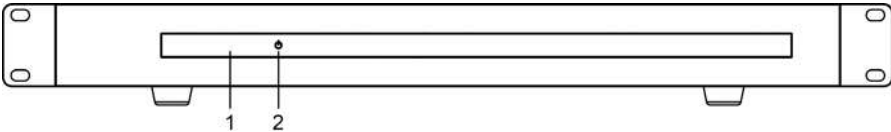
		
<p>HD Video Conference Terminal x 1</p>	<p>Power Adapter x 1</p>	<p>Remote Control x 1</p>
		
<p>RJ45 to DIN8 Control Cable x 1</p>	<p>HDMI Cable x 2</p>	<p>Quick Start x 1</p>
		
<p>User Guide x 1</p>	<p>CD x 1</p>	<p>Microphone x 1</p>

## 2 About Product

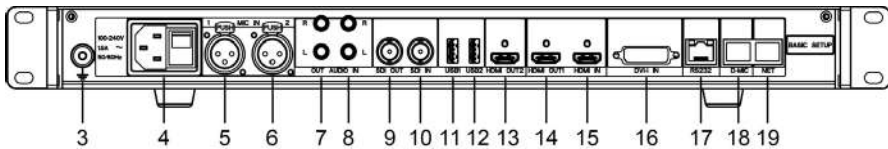
Laia TP-100 video conference terminal adopts embedded system design and supports 1080P HD codec and H.323 and SIP communication protocols. Split-type design, easy to install, connect to the network, microphone, TV, plug in the power to communicate. The voice and image information are transmitted to each other to complete various conference functions such as document sharing. Save meeting time and funds, improve work efficiency, and create convenient face-to-face video conference interaction and all-round communication and communication.

### 2.1 Product Appearance



#### Appearance



#### Interface



No.	Name	Function
1	Power Indicator	Power indicator.
2	Power Switch	Power switch.
3	Ground Interface	Ground interface for connecting ground cable.
4	Power Interface	100~240V power input interface.
5	MIC IN 1	Microphone audio input interface 1 for receiving voice.
6	MIC IN 2	Microphone audio input interface 2 for receiving voice.

No.	Name	Function
7	AUDIO OUT	The lotus head audio output interface connects the speaker and terminal through the audio cable to output sound.
8	AUDIO IN	The lotus head audio input interface connects to the audio input devices such as microphones, mixers, etc.
9	SDI OUT	SDI output interface for connecting a coaxial cable to the SDI output interface.
10	SDI IN	SDI input connector for connecting a coaxial cable to the SDI input interface.
11	USB1	USB interface 1, for USB devices such as an external USB flash drive, mouse, keyboard, microphone or speaker.
12	USB2	USB interface 2, for USB devices such as an external USB flash drive, mouse, keyboard, microphone or speaker.
13	HDMI OUT2	HDMI output interface 2, connected to the terminal and HDTV via HDMI cable.
14	HDMI OUT1	HDMI output interface 1, connected to the terminal and HDTV via HDMI cable.
15	HDMI-IN	HDMI input interface, connect the terminal and camera through HDMI cable.
16	DVI-I IN	DVI-I IN input interface for connecting the second video input device (DVI video source, such as computer) to connect the computer or the second video source to the DVI-I IN input interface using a DVI cable. Press the “  ” dual stream button on the remote control and select “Open Dual Stream”, then press the remote control “  ” confirm button to send the second video to the conference terminal.
17	RS232	RS232 interface for external RS232 devices, such as computers, cameras, etc.
18	D-MIC	Digital microphone input interface (not supported).
19	NET	Network interface, the terminal is connected to the network through the network cable.

## 2.2 Product Specifications

Category	Item	Specifications
Electrical Feature	Operating Voltage	AC 100V ~ 240V
	Power Consumption	20W (Max)
Environmental Requirements	<b>Working Status</b>	
	Temperature	0°C ~ 40°C
	Relative Humidity	10% ~ 80%
	Ambient Noise	< 46dBA SPL
	<b>Non-working Status</b>	
	Temperature	-40°C~70°C
	Relative Humidity	0%~95%
Physical Feature	Dimension	200mm x 428mm x 44.5mm
	Net Weight	3.2kg

# 3 Installation Connection

The terminal can be installed in the cabinet or placed directly on the horizontal desktop.

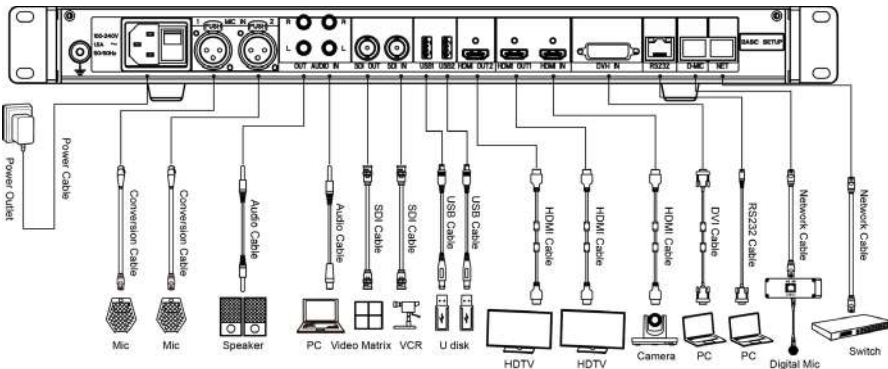


Note

- If you place the terminal directly on the desktop, keep the desktop steady and pay attention to the anti-slip.
- If you place the terminal in a rack, use screws to secure it to the rack.
- Adjust the orientation of the terminal to avoid facing bright light sources (such as windows). It is recommended that the terminal be facing the participant.

## 3.1 Connection Cable

The cable connections shown in the following figure contain optional configurations. They are for reference only. Please connect cables according to actual needs.



The connection configuration is as follows:

- Enter the main video image: Connect an external camera to the HDMI IN interface on the terminal.
- Input the second video image: Connect the computer or the second video source to the DVI-I IN input of the terminal via a DVI cable.

- Input microphone sound: Use the CANNON cable to connect the matching microphone to the MIC IN interface of the terminal.
- Input the player sound: Use the Lotus head audio cable to connect the computer or phone audio to the AUDIO IN interface of the terminal.
- Output sound: Connect the HDMI OUT1 of the terminal to the HDMI input of the display device using the HDMI cable, or connect the audio (speaker) to the AUDIO OUT interface of the terminal using the Lotus head audio cable.
- Output the main video image: Connect the HDMI OUT1 interface of the terminal to the HDMI input interface of the display device using the HDMI cable.
- Output the second video image: Connect the HDMI OUT2 interface of the terminal to the HDMI input interface of the display device using the HDMI cable.
- Connect to the network: Connect the NET interface of the terminal with a network cable to connect the terminal to the network.
- Connect the power: Connect to the power outlet using 100~240V AC power cord.

## 3.2 Turn On the Power

After connecting all the devices used with the conference terminal, turn on the power.



- When the terminal power is on, prevent the power cord from disconnecting from the terminal and causing the terminal to lose power.
- Please turn off the terminal, then turn off the external power supply, and finally pull out the power cord. Please check that the power cord is properly and reliably connected to the device as described below.
- Please make sure that the AC power supply voltage ranges from 100V to 240V and the frequency is 50Hz or 60Hz.
- The sequence definition of the live (L), neutral (N) and protective ground (PE) and the corresponding voltage difference must comply with international standards, and the protective ground is reliably grounded.

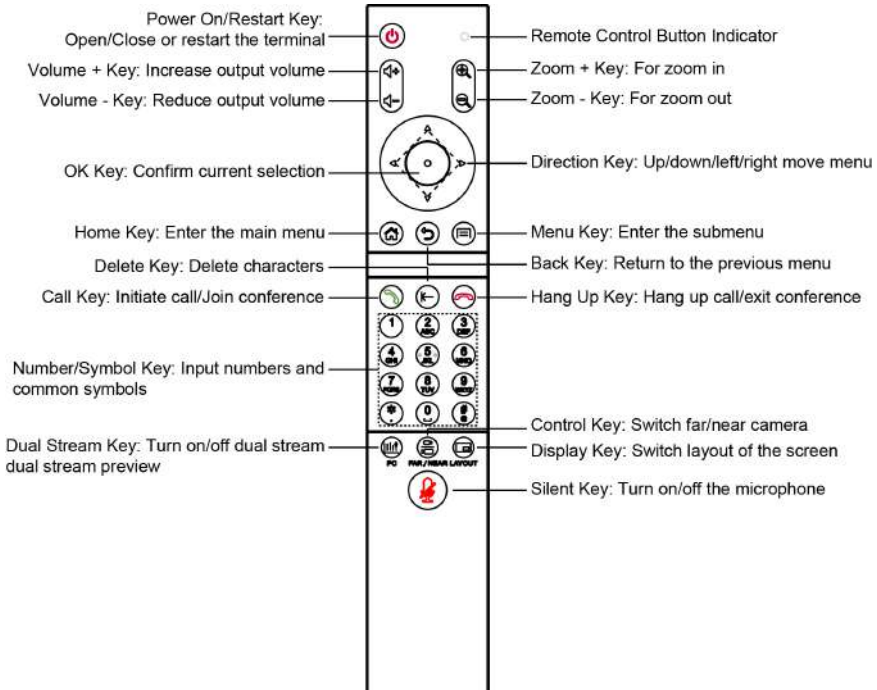
With HDMI OUT1 as the output interface, connect the cable as shown above and press the power button (green light is on) and boot to the main menu of the display screen.

After power is turned on, the indicators of the terminal are as shown in the following table.




Indicator Status	Status Description
Power Indicator (green and bright)	Normal work
Power Indicator (off)	Power has been disconnected
Infrared receiving indicator (flashes green)	Received remote infrared signal

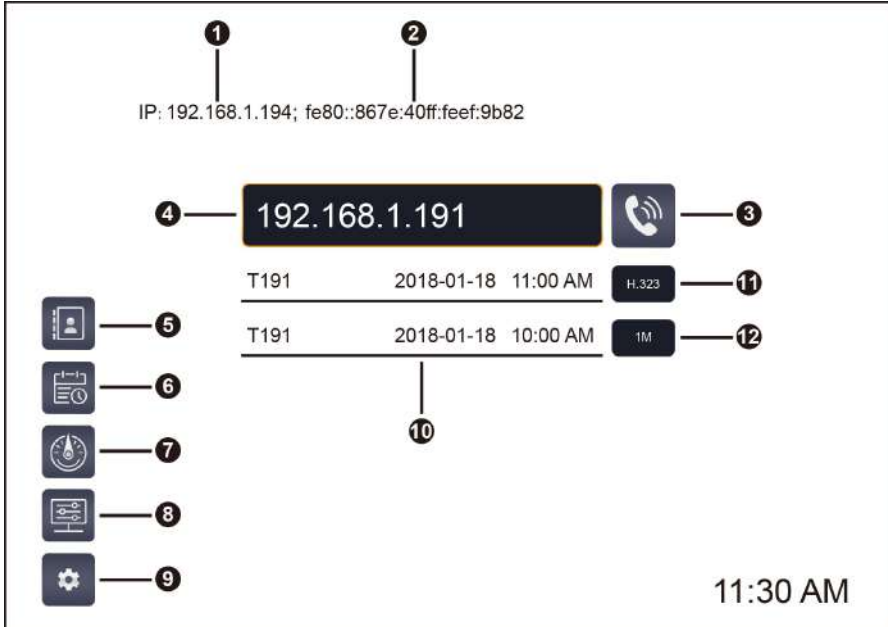
## 4 Remote Control



The remote control may be affected by strong light, and the normal working distance is about ten meters.

## 5 GUI Main Interface

Press the home key “” of the remote control to enter the GUI main interface.



No.	Description	No.	Description	No.	Description
1	IPv4 Address	2	IPv6 Address	3	Call Button
4	Remote IP or Number Input Box	5	Contacts Menu	6	History Menu
7	Diagnostic Menu	8	Control Menu	9	Settings Menu
10	Display Call History	11	Select Call Protocol	12	Select Call Rate

When you move the cursor to the “Settings” menu, the “Contacts”, “History”, “Diagnostic” and “Control” menus will pop up automatically; when you move the cursor to the “Call” button, the system will automatically pop up “Call Protocol” and “Call Rate” options boxes.

## 6 Basic Settings

### 6.1 Network Settings

**Step 1** Enter the GUI main interface, select “Settings > Network > IPv4”.

**Step 2** Set network parameters such as IP address, gateway and subnet mask etc.

**Step 3** Select “Save”, save configuration information.

**Step 4** End.

Parameter	Description
Work Mode	Configure the network working mode, the options are: <ul style="list-style-type: none"><li>● Auto</li><li>● 10M Full Duplex</li><li>● 10M Half Duplex</li><li>● 100M Full Duplex</li><li>● 100M Half Duplex</li><li>● 1000M Full Duplex</li><li>● 1000M Half Duplex</li></ul>
Connection Type	<ul style="list-style-type: none"><li>● DHCP: The terminal automatically obtains an IP address through a DHCP server.</li><li>● Static IP: The IP address of the terminal is assigned by the network administrator. You need to set the IP address, netmask, gateway, and DNS address.</li></ul>
IP address	Configure the IP address of the terminal.
Subnet mask	Configure the subnet mask of the terminal.
Gateway	Configure the default gateway address of the terminal.
DNS address	Configure the IP address of the DNS server.
Save	Select “Save”, save configuration information.

## 6.2 H.323 Account Settings (optional)

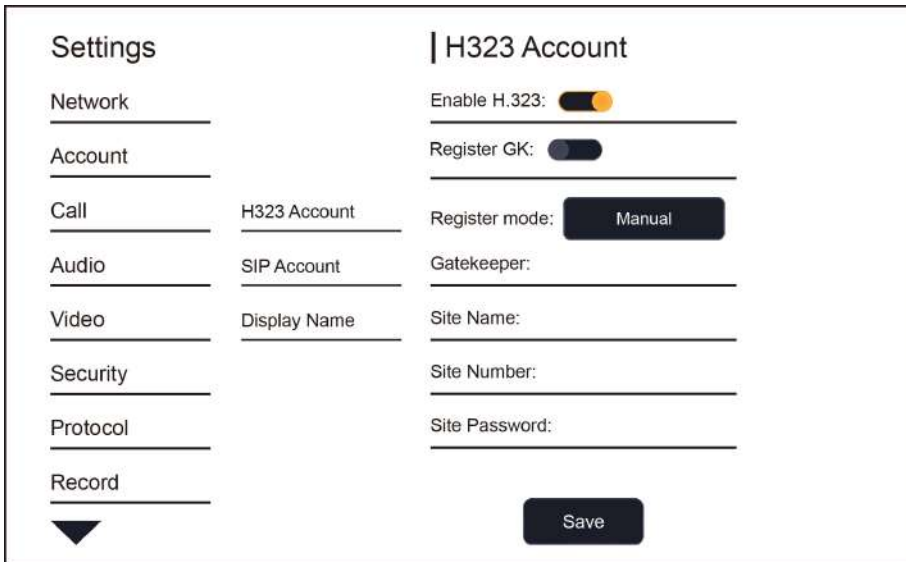
Set the H323 ID and number of the terminal, specify the GK address, and enable the terminal to register with the GK, so that the conference or other terminal can be called by the number.

**Step 1** Enter the GUI main interface, select “Settings > Account > H323 Account”.

**Step 2** Configure H323 account parameter information. The parameters are described in the following table.

**Step 3** Select “Save”, save configuration information.

**Step 4** End.



Parameter	Description
Enable H.323	Enable or disable H.323 function.
Register Mode	Select the H.323 account register mode, you need to manually enter the information required for H.323 registration.

Parameter	Description
Register GK	<p>Enable or disable register GK function, the options are:</p> <ul style="list-style-type: none"> <li>● Enable: The terminal registers with the GK server. After the terminal is successfully registered to the GK server, you can call other terminals through the remote meeting number.</li> <li>● Disable: The terminal does not register with the GK server. When calling with the H.323 protocol, only other terminals can be called by IP address.</li> </ul>
Gatekeeper	<p>Set the IP address or domain name of the GK server.</p> <p>When set to domain name, you need to enable the DNS server and set the correct mapping on the DNS server.</p>
Site Name	<p>The name or alias of the terminal registered on the GK.</p> <p>After the terminal registers with the GK server, the GK server identifies the terminal with the name.</p>
Site Number	<p>Site number corresponding to the terminal.</p> <p>After the terminal registers with the GK server, other terminals can use the number to call the terminal.</p>
Site Password	<p>The password registered by the terminal to the GK server for the legality of the GK server authentication terminal.</p>
Save	<p>Select "Save", save configuration information.</p>

### 6.3 SIP Account Settings (optional)

Configure the SIP parameters, set the SIP address of the terminal, and communicate with the remote server through the registration number.

**Step 1** Enter the GUI main interface, select "Settings > Account > SIP Account".

**Step 2** Configure SIP parameters. The parameters are described in the following table.

**Step 3** Select "Save", save configuration information.

**Step 4** End.

### Settings

- Network
- Account
- Call
- Audio
- Video
- Security
- Protocol
- Record

### | SIP Account

Enable SIP:

Register SIP:

Register mode: Manual

Transport Protocol: TCP

Proxy Server: \_\_\_\_\_

Username: \_\_\_\_\_

Authentication Username: \_\_\_\_\_

Authentication Realm: \_\_\_\_\_

Save

Parameter	Description
Enable SIP	Enable or disable SIP function.
Register Mode	Select the SIP account register mode, you need to manually enter the information required for SIP registration.
Register SIP	<p>Enable or disable register SIP function, the options are:</p> <ul style="list-style-type: none"> <li>● Enable: The terminal registers with the SIP server. After the terminal is successfully registered to the SIP server, you can call other terminals through the remote meeting number.</li> <li>● Disable: The terminal does not register with the SIP server. When calling with the SIP protocol, only other terminals can be called by IP address.</li> </ul>
Transport Protocol	Select Transport Protocol, the options are TCP, UDP, TLS and Auto.
Proxy Server	<p>Enter the IP address or domain name of the SIP proxy server.</p> <p>This must be enabled when the user's network environment requires that the proxy server be enabled.</p>

Parameter	Description
Username	Enter the username used to register the SIP server.
Authentication Username	Enter the username used for authentication.
Authentication Realm	Enter the domain name used by the SIP server to identify the corresponding domain.
Authentication Password	Enter the password of the SIP server to be used by the terminal to authenticate the terminal of the SIP server. When the SIP server is authenticated, the password set by the terminal must be the same as the password set in advance on the SIP server.
Save	Select "Save", save configuration information.



After you enable the terminal to register the SIP server, you need to configure the "Proxy Server", "Username" and "Authentication Realm".

## 6.4 Display Name Settings

**Step 1** Enter the GUI main interface, select "Settings > Account > Display Name".

**Step 2** Configure the "Display Name" of the terminal.

**Step 3** Select "Save", save configuration information.

**Step 4** End.

### Settings

- Network
- Account
- Call      H323 Account
- Audio     SIP Account
- Video     Display Name
- Security
- Protocol
- Record

### | Display Name

Endpoint Name:

Encode H.323 display name as:

Decode H.323 display name as:

## 6.5 Date Settings

**Step 1** Enter the GUI main interface, select “Settings > System > Date”.

**Step 2** Set parameters such as date, time, and date format.

**Step 3** Select “Save”, save configuration information.

**Step 4** End.

Parameter	Description
Automatic date time	Enable “Automatic date & time” to indicate the time provided by the network.
Set date	Set the date to take effect when disable “Automatic date time”.
Set time	Set the time to take effect when disable “Automatic date time”.
NTP Server	Set the NTP time server.
Select time zone	Select the time zone of your region.
Enable 24-hour format	Enable or disable the 24-hour format.
Select date format	Select the order in which the date, month, and day formats are displayed.



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## 6.6 Reset Settings

**Step 1** Enter the GUI main interface, select “Settings > System > Reset”.

**Step 2** Select “Reset to factory settings”.

**Step 3** Select “Save”, save configuration information.

**Step 4** End.



After restoring the factory settings, all the terminal parameters you configured earlier will be lost, please be careful settings!