Relacart®

CS-101
conferencing
discussion system

Instructions

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Introduction

Thank you for choosing the Relacart's Conferencing Discussion System , and welcome to join our thousands of professional users. Our more than 20 years of professional design and manufacture experience ensure the excellent quality, performance and reliability in all aspects of a product.

01 Safety operation and Notice

- Please read instructions for safety operation carefully before installation and operation. Please save your safety operation guide for future reference.
- Do not scratch, bend, twist, stretch or heat the power cord as this may cause damage to the power cord, resulting in a fire or electric shock.
- Do not open the device shell, otherwise it may cause electric shock. If you need to repair, maintain or repair, please contact your local agent.
- Do not touch the power plug with wet hands as this may cause a fire or electric shock.
- Do not attempt to modify this device. Failure to do so may result in personal injury or product malfunction.
- Do not use this equipment near water.
- If the power cord is damaged (such as a broken wire or bare core), obtain replacement parts from your dealer. Continued use of the equipment with a damaged power cord may result in fire or electric shock.
- To move the device he power, unplug the power cord, and unplug all connecting cables as this may damage the cable, resulting in a fire or electric shock.
- Before cleaning the device, unplug the power cord and unplug all connecting cables. Please clean it with a dry soft cloth.
- If the device is not in use for a long time, turn off the power, it is best to unplug the socket
- With the power plug and appliance coupler as the disconnecting device, it should be kept easy to operate.
- For the safe use of the equipment and adequate ventilation, the minimum clearance around the equipment should be maintained at a distance of 5 cm or more.
- DO NOT cover the Ventilation holes, such as: newspaper / fabric / curtains and other items.
- Equipment should not be placed on a bare flame source, such as: lit candles.
- Battery should not be exposed to sunshine, roasted or other high temperature overheating environment.
- Do not throw the waste battery, please put in the designated bins.
- Water protection rating: IPX0
- The device can be used normally in tropical / temperate climates.
- This product is only suitable for safe use at the altitude of 2000m and below.
- This symbol "⚡" indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
- All Relacart products will be afforded one year free maintenance except for man-made damage,such as:
  — the device is damaged by man-made factors.
  — the device is damaged by improper operation.
  — some components are damaged or loss after the self-disassembly.

02 General Description

RELACART CS-101M Central Controller is control the whole system of CS-101 Conferencing Discussion System. Include the function of choosing the Mode, connecting the level output and line-level input. Control for up to 45 speaking units. With automatic gain input, FBK, FIFO and Voice-active mode. Can connect the external loudspeaker to voice amplification. Can set in a ELA Standard 1U rack directly. Enclose 10m cable with auxiliary audio signal input function, can connect the other equipments conveniently.

Features:

- Gooseneck design can adjust the direction on the basis of your need, easy installation. Gooseneck microphone's light indicates and status of speaking unit.
- With automatic gain audio processing circuit, prevent the feedback effectively and improve the clarity of the whole system.
- It is easier for expansion and changing configuration. One main controller can connect up to 45 speaking units.
- Active 1/3/6 microphones in a time and with FIFO function. Voice mode: Voice to open the microphone, up to active 4 microphone units simultaneously.
- CS-101C/CS-101BC Chairman unit can use the Priority button to control the speaking order, controlling atmosphere of the meeting.
- With recording output to connect the recorder, all the meetings recording can save completely. And also can connect the external amplification equipment.
- Can connect VTS-1000 video tracking system to achieve video conference.
- Connect to the telephone coupler can be applied to long-distance telephone meeting directly.
- Gooseneck microphone design, can adjust the direction flexibly. The indicator on the microphone shows the speech status.
- Adopt anti-drop aviation cable and hand in hand connection mode, simple connection, reliable, which can cut down the project of whole installation and cost.
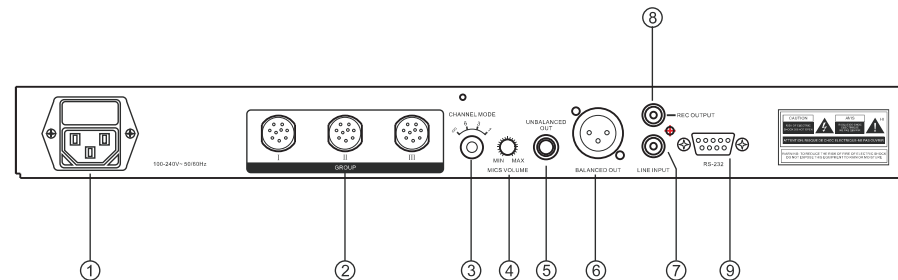
1. CS-101M Central Unit

Front Panel
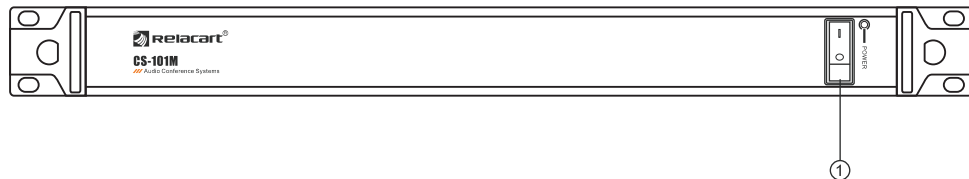
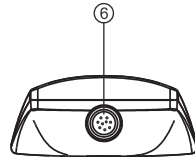**1.Power Indicator**

Rear Panel

1. Power Input: Standard IEC socket, can accommodate 110V/240V 50/60Hz AC power.
2. Three inputs of Microphone: Each channel can connect up to 20 microphone units.
3. Function Key of Mode Selection: FIFO mode, can active 1/3/6 microphone units in a time. When speaking microphone over the limit number of speakers who spoke first will be override. Voice mode: Voice-activated microphones can active up to 4 microphone units simultaneous. When speaking microphone over the limit number of speakers, the one who spoke first will be override.
4. Knob of Volume Adjustment: Can control the volume level of the audio output.
5. Balance audio output jack: 6.3mm jack can use standard balance audio cable connect the balance input of mixer or amplifier.
6. Balance audio output jack: XLR jack can use twin-cord shielded cable connect the mixer.
7. RCA audio line-level input port: Connect MP3/DVD external auxiliary audio signal input.
8. RCA audio line-level input port: Connect mixer recorder.
9. RS-232 port: Connect VTS-1000 video tracking system and external control system.
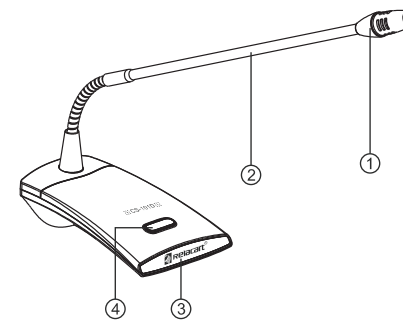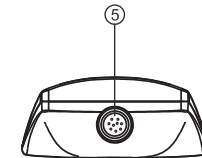
2. CS-101 Chairman Unit

Top View
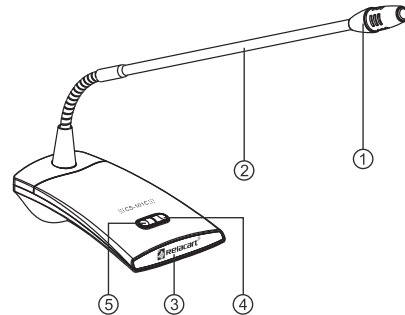
Rearview

1. Power Indicator: When the microphone unit opens the light is on.
2. Microphone Stem: Dual-gooseneck design can move the cartridge to any direction flexibly.
3. Microphone works indicate: When the microphone unit connects the Main controller and the power on, the Relacart Logo light is on.
4. Talk key: When microphone unit haven't speak, the spoken key is green. When you press the spoken button, the microphone is turned on and the microphone in-use indicator remains lit, the spoken key is red.
5. Priority spoken key: When microphone unit is turned off, Priority spoken key is red. When microphone unit is turned on, Priority spoken key is green. The microphone turns on and the microphone in-use indicator remains lit as long as the key is held down. Allowing the voice input from the unit to take precedence over other units. During this interval, other delegate units cannot be used.
6. Connection port of microphone: for communication between the main controller and the microphone.

3. Delegate unit CS-101D

Top View

Rearview

1. Power Indicator: When the microphone unit opens the light is on.
2. Microphone Stem: Gooseneck design can move to any direction flexibly.
3. Microphone works indicate: When the microphone unit connects the Main controller and the power on, the Relacart Logo light is on.
4. Talk key: When you press this key the microphone spoken light is on and the microphone in-use indicator remains lit, the microphone is opened. Press this button again, the microphone spoken light and the microphone in-use indicator are off, the microphone is off.
5. Connection port of microphone; for communication between the main controller and the microphone.

4.Chairman unit CS-101BC
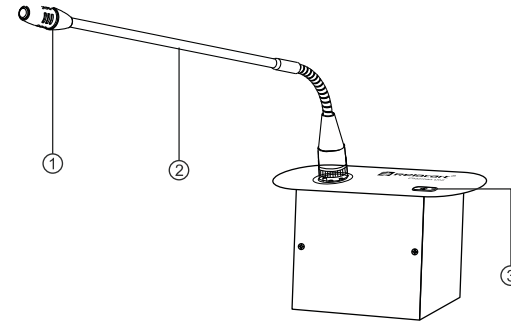
Top View   Rearview
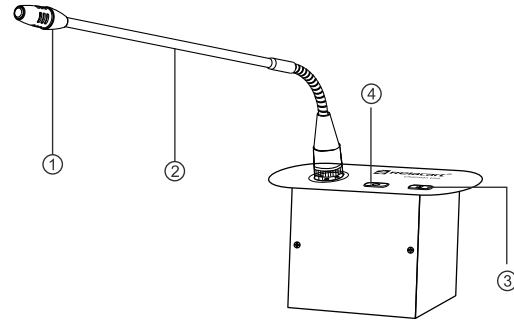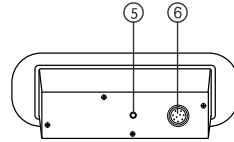
1. Power Indicator: When the microphone unit opens the indicator is on.
2. Microphone Stem: Dual-gooseneck design, can adjust the microphone head flexibly
3. Talk key: When microphone unit haven't speak, the spoken key is green. When you press the spoken button, the microphone is turned on and the microphone in-use indicator remains lit, the spoken key is red.
4. Priority Talk Key: When microphone unit is turned off, Priority spoken key is red. When microphone unit is turned on, Priority spoken key is green. The microphone turns on and the microphone in-use indicator remains lit as long as the key is held down. Allowing the voice input from the unit to take precedence over other units. During this interval, other delegate units cannot be used.
5. Fixed screw: fix the installation holder to the speech module.
6. Connection port of microphone: for communication between the main controller and the microphone.

5. Delegate unit CS-101BD
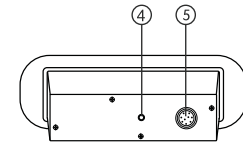
Top View   Rearview

1. Power Indicator: When the microphone unit opens the indicator is on.
2. Microphone Stem: dual-gooseneck design, can adjust the microphone head to any direction flexibly
3. Talk key: When microphone unit haven't speak, the spoken key is red. When you press the spoken key, the microphone is turned on and the light become green.
4. Fixed screw: fix the installation holder to the speech module.
5. Connection port of microphone: for communication between the main controller and the microphone.
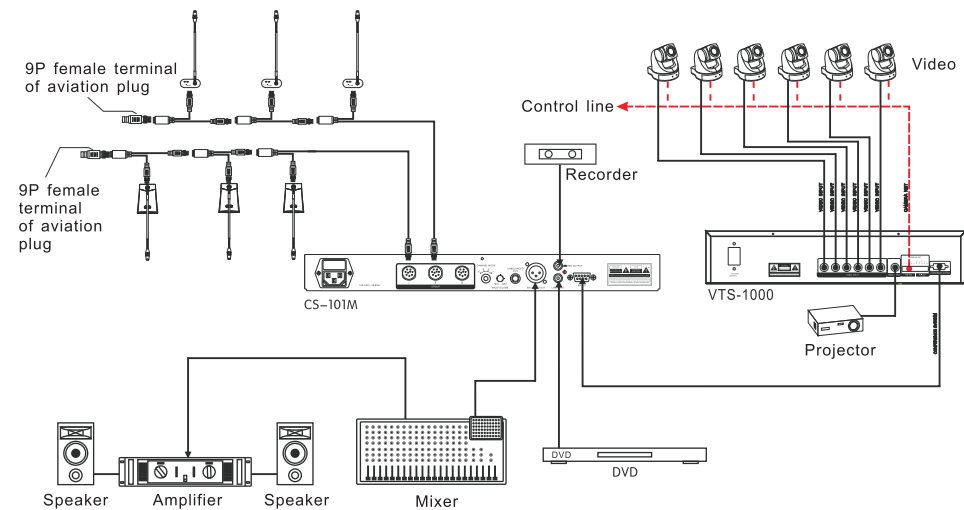
04 Installation of the embedded speech mould

Step:

Fixed installation
Holder screw

②

108mm

43mm

①

③

④ ④

Hole paper for installation

Installation progress
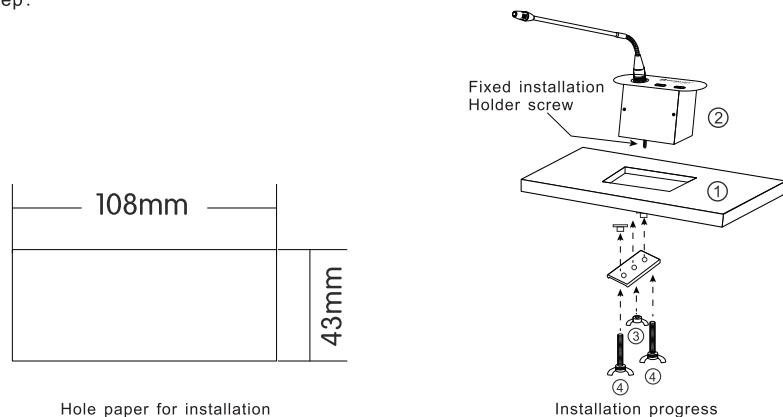
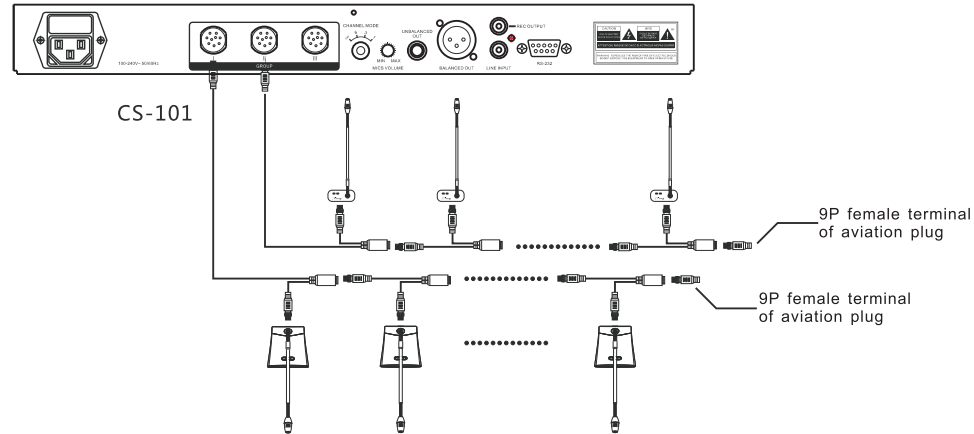1. According to the size of the hole paper shown as below, dig the hole on the desktop108*43mm
   (Length*Width),the depth of the hole at least 88mm(the hight of the speech mould)
2. Embed the speech mould to the hole, adjust the speech mould and make it at the same level of the
   desktop.
3. Fix the installation holder to the speech mould.
4. Fix the screw into the fixed holder, then put the screw cap , make sure the screw is upwards, then
   tighten the screw until they reach the surface of the desktop, guarantee the speech mould could be
   fixed on the desktop

05 Connection Diagram

9P female terminal
of aviation plug

9P female
terminal
of aviation
plug

Control line

Video

Recorder

CS-101M

VTS-1000

Projector

Speaker   Amplifier   Speaker   Mixer

DVD

DVD

Conference System Microphone Instructions.

CS-101

9P female terminal of aviation plug

9P female terminal of aviation plug

Note: After finishing the connection between the CS-101 conference system main controller and all microphones, please add a 9P aviation female plug to the cable connector of the last microphone otherwise no communication and working indicator light flashing.

06 Technical Specifications

CS-101M Central Controller

Main frame size：EIA standard 1U
Current Consumption：AC100-240V 50/60Hz
Current Consumption：45W
Frequency Response：65Hz-15KHz
S/N：>85dB

T. H. D：<0.7%
XLR：-10dBV/6.3mm：15Dbv   RCA：0dBV
Audio Output：XLR：-10dBV/6.3mm：15Dbv
RCA：0dBV
Interface：9P aviation female plug*3/RS-232*1/RCA*2
Dimension：410mm(W)*43MM(H)*206MM(D)
Weight：About2.3kg

CS-101C Chairman Unit/CS-101D Delegate Unit

Power：DC12V（Power by central controller）
Current Consumption：1W
Polar Pattern：Cardioid
Frequency Response：65Hz-18KHz
Unit Interface：9P aviation plug
Carttridge Type：Condenser Cardioid directivity
T. H. D. ：<0.7%
Sensitivity：-20dBV/Pa
Dimension of the Base(mm)：105(W)*43(H)*150(D)
Weight：About780g

CS-101BC Chairman unit/CS-101BD Delegate unit

Power: DC12V (Power by central controller)
Current Consumption: 1W
Polar Pattern: Cardioid Condenser
Frequency Respond: 65Hz-18KHz
Unit Connector: Anti-drop 9P aviation plug
Cartridge type: Cardioid condenser
T. H. D: <0. 7%
Sensiivity: -20dBV/Pa
Dimension of the base: 132(W)x52(H)x90(D)
Dimension of the stem: 455(L)
Weight(g): Base about 343
         Mic stem about 163