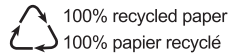




Conferencing  
**discussion system**

CS-100 Audio Conference System Operating Instructions



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Thank you for choosing Relacart CS-100 conferencing discussion system, please carefully follow the instructions in this manual to ensure durable, trouble-free use of your equipment.

## 01 Safety Operation and Notice

- 1、 Please read instructions for safety operation carefully before installation and operation
- 2、 Please keep this manual
- 3、 Do not scratch、 bend、 twist、 stretch or heat the power cord, otherwise the power cord may be damaged and a fire or electroshock could happen.
- 4、 Do not open the case, otherwise it could lead to electroshock. For maintenance or repair, please contact our local agent.
- 5、 Do not touch the plug with wet hand, otherwise a fire or electroshock could happen.
- 6、 If power cord is damaged ( such as cut off or the core is bare),please contact agent to get the replacement. Continue using damaged power cord may lead to fire or electroshock.
- 7、 Please cut off power , pull out the power plug and all connection cables before moving the device, otherwise it may damage the cables and lead to fire or electroshock.
- 8、 Please cut off power , pull out the power plug and all connection cables before cleaning the device. Please use dry and soft cloth to clean the device.
- 9、 If the device is not used for a long time, please cut off the power, it is better to pull out the power plug.
- 10、 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 Introduction

Before installation, double check your power source to make sure the supply voltage is compatible with the unit and all power is turned off while installing this unit. Avoid using the system in dusty environment. Avoid using the system in high humidity environment. CS-100 conference system is a compact and affordable audio conference system, yet meets all essential requirements for audio discussion applications. Easy installation and simple operation for variety of mini/medium type conferencing rooms. The system fit international standard IEC60914.

### CS-100M Central Controller

Central controller is the most important part of the whole system, it contains all functional keys to adjust sound's quality and control switches of all functions. In addition to functional keys, users can connect the central controller with external machine for audio record. Amplifier and speakers must be connected with central controller to amplify the sounds. Sound effect will be perfect if a mixer or an equalizer is used. Amplifier can be connected through interface LINE OUT, BALANCED OUT or UNBALANCED OUT. Every GROUP output interface can be connected by 40units; the central controller has 3 GROUP outputs which totally can be connected by 120 units.

### CS-100D Delegate Unit

Delegate unit has internal unidirectional condenser microphone for high quality sound pickup. When press the button on the delegate unit, the illuminated ring on the gooseneck microphone turn to red, which indicates that this microphone is on working. If the illuminated ring is off, this microphone turns back to pre-set situation. The user must press the button again before speaking.

### CS-100C Chairman Unit

The appearance of the Chairman unit is as same as Delegate unit, in addition to all functions that Delegate unit has, the Chairman has PRIORITY button which allows the user to switch off all Delegate units.

### How to use this system

Connect the first unit (a Delegate or Chairman unit) to any interface GROUP 1/2/3 on the central controller directly or through extension cable. Then connect other units with this unit one by one, 40 units can be connected one by one through a GROUP interface. Please read Graph 1 and Graph 2 below. Based on practical situation, modify and turn on CH SW (Channel switch), you can choose the number of simultaneous working microphones through this switch.

If you choose 1, the system only allows at most 1 microphone to work simultaneously.

If you choose 3, the system only allows at most 3 microphones to work simultaneously.

If you choose 6, the system only allows at most 6 microphones to work simultaneously.

If you choose  $\infty$ , the system allows all microphones to work simultaneously.

The microphones mentioned above include Delegate and Chairman units. Even though the maximum working microphones have been set up, Chairman units can join at any time.

— When turn on power supply, check whether LED POWER is on

— Check the system is working properly; press the buttons on every Chairman unit and Delegate unit to make sure every unit is normally working.

— Check the PRIORITY button on Chairman unit; when press this button all microphones are turned off.

Operation of Delegate units

— Press the switch button on the Delegate unit, the microphone is turned on and the indicator light turn to red.

— Press the switch button again, the microphone is turned off and the indicator light is off.

Operation of Chairman units

The main operation of Chairman unit is as same as Delegate unit, but there is a PRIORITY button on the Chairman unit. All microphones are turned off when press PRIORITY button.

## 03 Components and Functions of CS-100

### Connection to Tape Recorder

Connect the audio input port of tape recorder with the REC socket on the central controller.

### Connection to Telephone Coupler

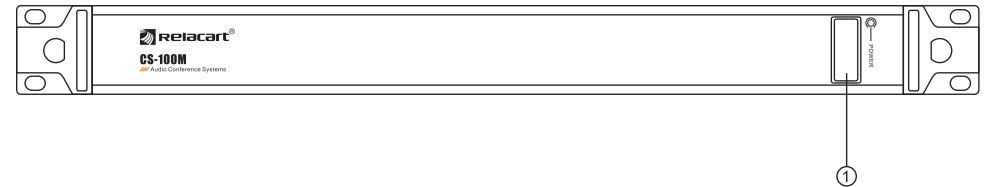
Connect the audio output port of telephone coupler with the INAF socket on the central controller

### Connection to Amplifier

Set the volume of amplifier to the minimum; connect the amplifier to UNBALANCED OUT or BALANCED OUT on the central controller. Turn on the amplifier and turn on microphones then speak, gradually increase the volume of the amplifier to a proper level. To prevent a squealing noise, make sure that loud speakers are face away from the microphones. Individually check every Chairman and Delegate unit to make sure every unit is on working.

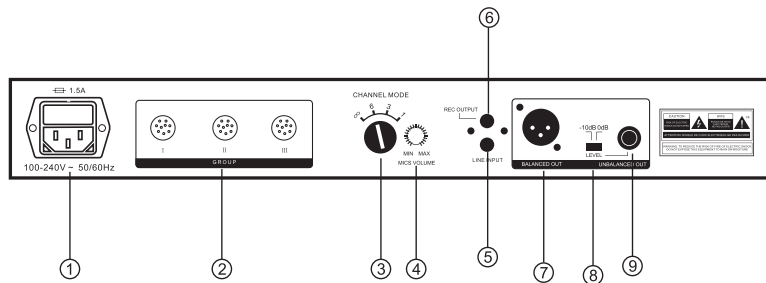
### CS-100M Central Controller

Front Panel



① Power Switch with indicator

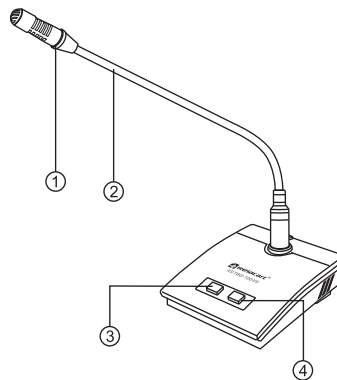
## Rear Panel



- ① Power Input
- ② Three Inputs of Microphones
- ③ Function Key of Mode Selection
- ④ Knob of Volume Adjustment
- ⑤ Input of Cable
- ⑥ Output of Cable
- ⑦ XLR Balanced Output
- ⑧ Switch of Volume Attenuation
- ⑨ 6.3mm Unbalanced Output

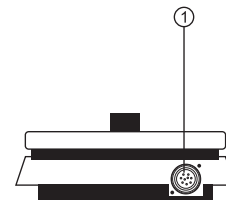
## 3.2 CS-100C Chairman Unit

### Diagram from Top



- ① Power Indicator: Lights when the power is switched ON.
- ② Microphone
- ③ Priority Speech Key
- ④ Talk Key

### Diagram of Button

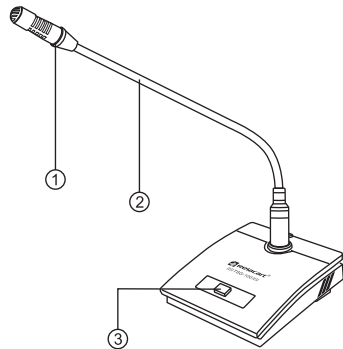


- ① Connection Port of Microphone

## 04 Diagram of Application

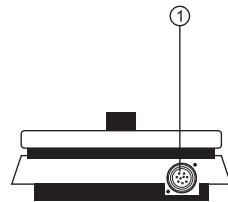
### 3.3 CS-100D Delegate Unit

Diagram from Top

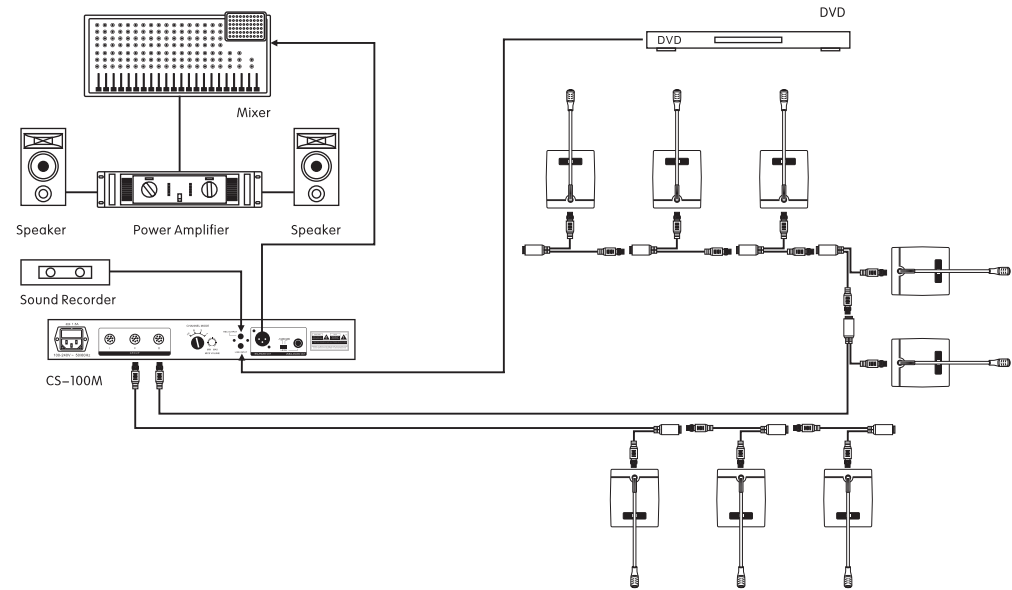


- ① Power Indicator: Lights when the power is switched ON.
- ② Microphone
- ③ Talk Key

Diagram of Button



- ① Connection Port of Microphone



## 05 Specification

### Technical Specifications of CS-100M

Electric Voltage for Power : AC110-240V50/60Hz  
Leakage Power: 500mW  
Maximum Power Consumption: 36W  
Maximum Output Power : 12W/12V(Each Channel)  
Frequency Response : 85Hz-15KHz  
S/N.: >95dB  
Distortion : <0.3%  
Audio Input : Line input -9dBV(f=1KHz, THD<0.3%)  
Audio Output : XLR -10dBV  
                  6.3mm jack -12dBV  
                  RCA out -3dBV , /in -14dBV, f=1KHz  
Color:black  
Dimension(mm): 410(W)x43(H)x206(D)  
Weight(kg): about 2.3

### Technical Specifications of CS-100C/CS-100D

Power supply : DC12V  
Polar Pattern : Cardioid  
Maximum Power Consumption: 40mA  
Frequency Response: 85Hz-15KHz  
S/N.: >98dBV  
Sensitivity : 21dBV/Pa  
Distortion: <0.2%  
Length of Soft Tube (mm): 420  
Dimension for base (mm): 115(W)x43(H)x140(D)  
Weight (g): about 800  
Color : Black/silver(consented)