

# 用户手册



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# Chapter 1FS-FHSS System

GONSIN FS-FHSS digital wireless simultaneous interpretation system utilizes the worldwide license-free 2.4GHz ISM frequency band and incorporates a robust Direct Sequence Spread Spectrum radio technology to deliver crystal clear CD quality sound, provide excellent immunity from both noise and interference, and insure high security against tapping or eavesdropping.

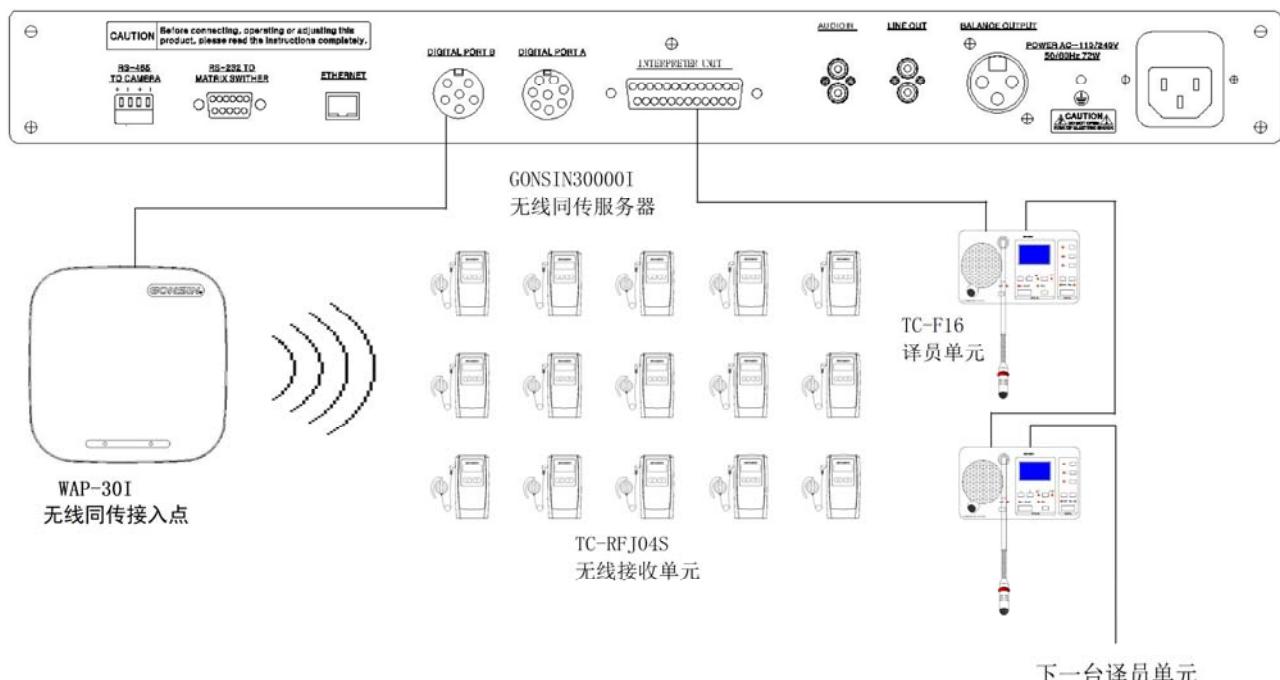
## System characteristics:

- ◆ Direct Sequence Spread Spectrum; frequency: 2.4GHz
- ◆ AES for data encryption, preventing malicious interference and listening
- ◆ Super-strong anti-interference capability, being immune to any light source, wireless communication equipment, and signal jammer
- ◆ Super-strong transmitting capability, effective transmission distance reaches 100m
- ◆ All-direction transmission, allowing participants to move within the effective transmission scope
- ◆ Unlimited system capacity within the effective transmission scope

## FS-FHSS System:

The FS-FHSS digital wireless simultaneous interpretation system is composed of the congress server, wireless congress terminals, wireless, conference management software, and audio devices and display devices.

## System connection diagram



下一台译员单元

## Chapter 2 FS-FHSS Wireless Congress Server

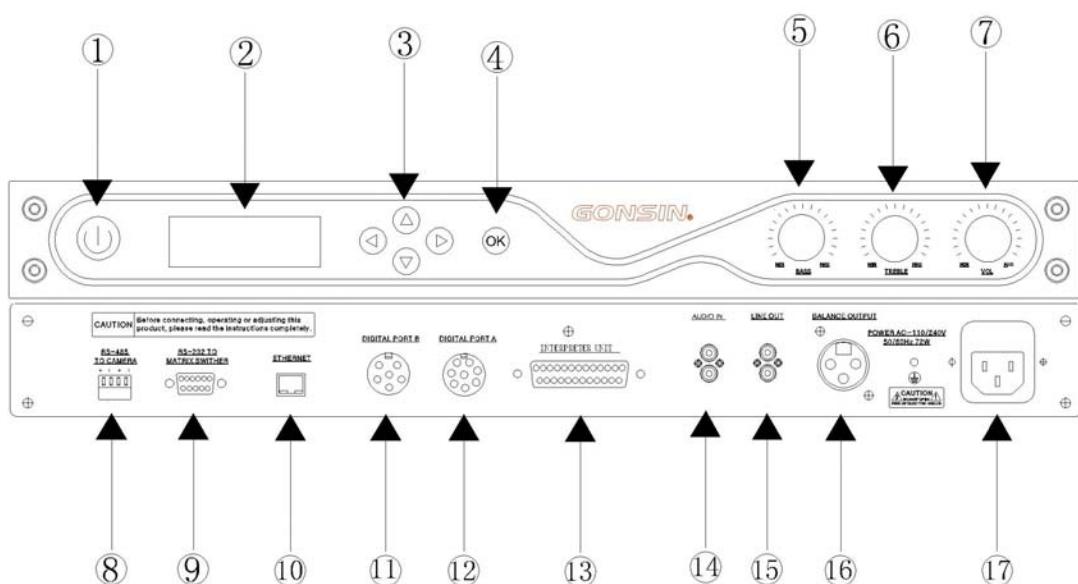
### 2.1 FS-FHSS Wireless Congress Server GONSIN30000I

GONSIN30000 is the core of the FS-FHSS digital wireless simultaneous interpretation system. The server acts as a bridge to connect system hardware and control software. It can work independently or be connected with a PC to allow operator to use the conference management software for management and control.

#### The features of production:

- ◆ Use FS-FHSS frequency hopping technology make sure the system work stably
- ◆ strong anti - interference ability
- ◆ AES encryption technology
- ◆ High efficiency Digital Audio Lossless Compression Technology
- ◆ The information of Server operation can be show on the OLWD screen
- ◆ perfect CD music quality
- ◆ Support congress terminals to be shut down in batch (support DCS-3021 Wireless Discussion System)
- ◆ light 1U Case design , easy to carry

#### 2.1.1 GONSIN30000I Indicators



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**Front side:**

- 1、 Power switch (with led )
- 2 、 Backlight LCD, Show various kinds of information (such as operation mode and language) and provide a plurality of languages to allow users to set the system.
- 3 、 Operation buttons: up/down/left/right arrow buttons
- 4、 OK button
- 5、 Bass adjustment knob (BASS)
- 6、 Treble adjustment knob (TREBLE)
- 7、 Volume knob (VOL)

**Front side:**

- 8、 RS-485 interface (RS-485 TO CAMERA). This interface has two pairs of connection terminals and it is used for connecting to cameras that support SONY\PELCO-P.

9、 RS-232 serial port. DB9 pin connect to HD matrix

10、 RJ-45 communication interface, connect to PC, Function of extensible system,

11 、 One-channel 6P interface , it used to Simultaneous wireless access point for Simultaneous translation

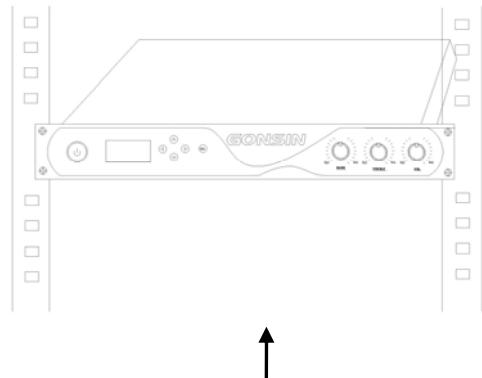
12 、 One-channel 8P interface , it used to Simultaneous wireless access point for discussion

13、 Interpreter terminal connection interface ; 25 Pin (INTERPRETERS UNIT), one servr is up to 8 Interpreter terminals.

14、 One group of RCA balanced audio output;

15、 One-channel Cannon balanced audio output

16、 Power interface (AC 110-220V 50Hz).



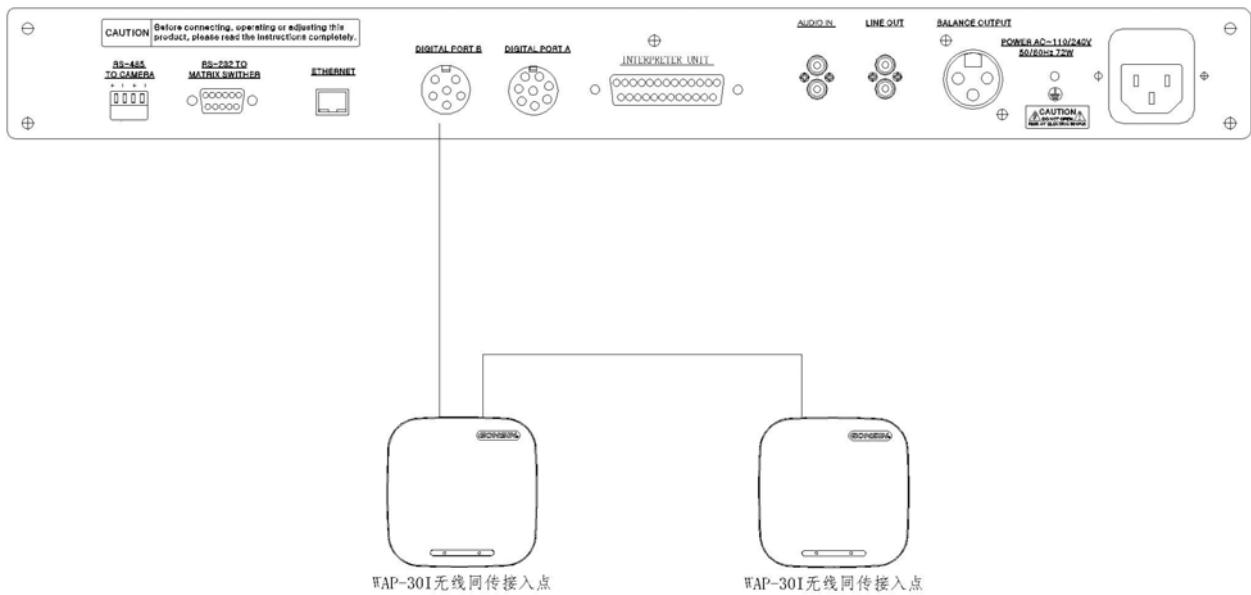
## 2.1.2 Installation

The congress server is 1U high, and therefore it can be installed in a 19-inch rack. It has two accompanied brackets. Screw up the bracket fixed in two sides of the congress server, put the congress server into the rack, then screw up it with the rack screws, as shown in the following figure:

## 2.1.3 Connection

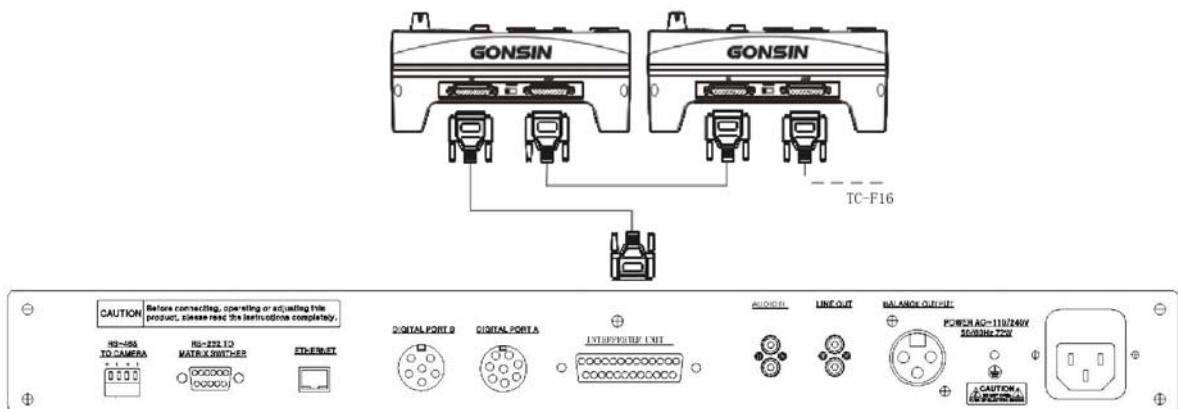
### 2.1.3.1 Connect to Simultaneous wireless access point

To connect the congress server with a wireless terminal, use an 8PS-03/05/10/20/40 extension cable to connect the 8P interface (female connector) of the congress server to a WAP-30 AP, with one male connector of the cable connected to congress server and the other male connector to the WAP-30 AP, as shown in the following figure:



### 2.1.3.2 connect to Interpreter terminal

TC-F06 is configured with a 3m and a 10m 25-pin extension cable. To connect the interpreter console with a central control unit TC-Z3, insert the male connector of a 3m extension cable to the output interface of the central control unit TC-Z3 and insert the female connector to the “IN” interface of the interpreter console. If the distance between the interpreter console and the central control unit TC-Z3 is long, adopt the 10m extension cable. The figure at the right side shows how to connect the interpreter console with a central control unit or extension unit.



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# Chapter3 Component of Wireless transmission system

## 3.1 receiver serves TC-RFJ04S/08S/12S/16S

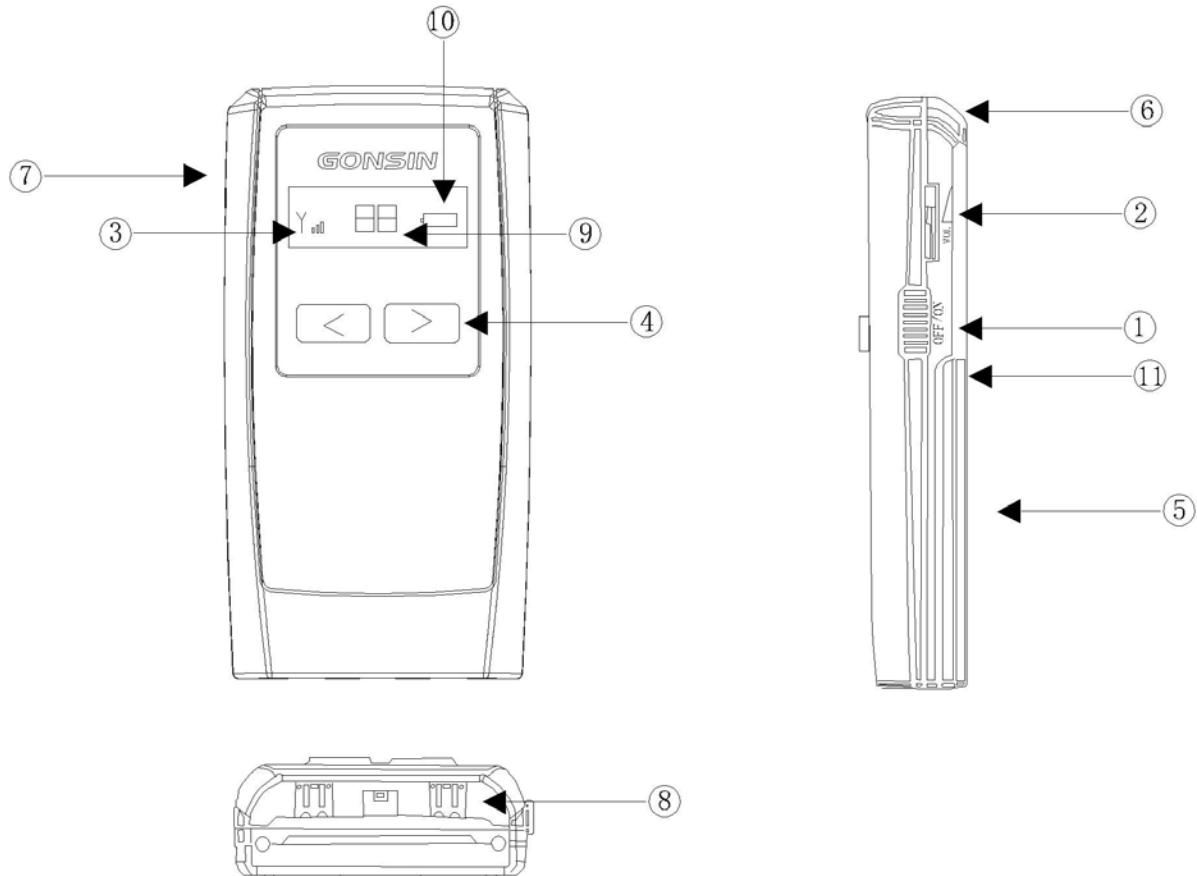
### 3.1.1 Functions

TC-RFJ04S/08S/12S/16S to receive audio signal. Participants use the receiver to select a required audio channel and wear a headphone to hear an interpreter. Volume is adjustable. Signal strength, battery capacity, selected channel, etc can be viewed from the LCD screen.

#### **Basic functions:**

- ◆ Lightweight receiver; in combination with a headphone to allow users to hear an interpreter
- ◆ Grouping (encryption) function; max number of groups: 255; no interference between the groups
- ◆ Dynamic display of such information as signal strength, battery capacity, and selected channel on the LCD screen
- ◆ Audio channel selection by key pressing
- ◆ Max number of channels: 16
- ◆ Clear voice along different independent channels
- ◆ Volume is adjustable
- ◆ Chargeable lithium battery (3.7V)
- ◆ Low power consumption, allowing battery to consecutively run for 30 hours
- ◆ Number of receivers within the signal coverage area is unlimited
- ◆ Allow users to move within the signal coverage area
- ◆ Earphone (single- or double-side) and headphone for selection
- ◆ Exquisite cord for hanging the receiver before your chest or inside your pocket

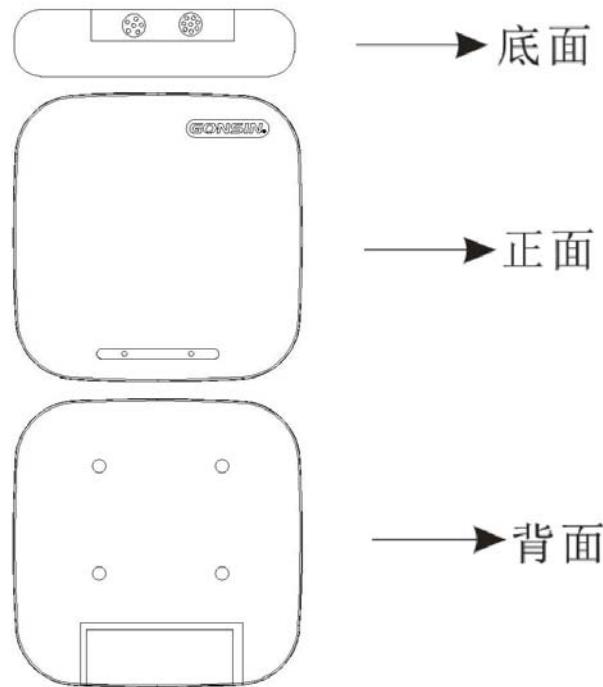
### 3.1.2 Structure TC-RFJ04S/08S/12S/16S



**Functions and appearance:**

1. Power switch
2. Volume adjustment knob
3. Signal strength
4. Next channel
5. Battery cover
6. Cord hole
7. Headphone/earphone jack (3.5mm)
8. Channel ID (within the system). Note that audio transmission is successful only when the ID of the control unit is consistent with those of the receivers. This function is used if multiple systems are installed in the same building and it is used for grouping. Use the DIP switches 1~8 to generate 00000000-11111111, totally 256 groups. In general case, the IDs of the control unit and receivers are all set to 00000000. (Avoid wrong setting; otherwise, audio signal will not be received.)
9. Metal sheet for charging
10. Channel No.
11. Battery capaci

## 3.2 WAP-30 Wireless Conference AP



### 3.2.1 WAP-30I Function and Introduction

- ◆ Super emission capability and the transmission distance exceeds 50 m;
- ◆ AES Data Encryption , avoid be intercepted;
- ◆ Signal transmission without direction ;
- ◆ Avoid the influence of light、Wireless communication equipment 、 Signal interference device ；
- ◆ In support of cascading; max number of channels:

16

- ◆ There is no interference when several products work at the same time
- ◆ rack mounting or ceiling mounted or wall-mounted;
- ◆ convenient operation, can be installed in meetingplace or Control room

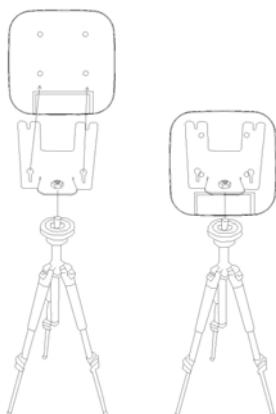
### 3.2.2.1 WAP-30I Wireless Conference AP Installation

Wireless transmission is at all directions and can not be affected by visible rays. So this wireless AP could be used outdoors. Because of the all-direction transmission, that wireless AP could be installed in the control room

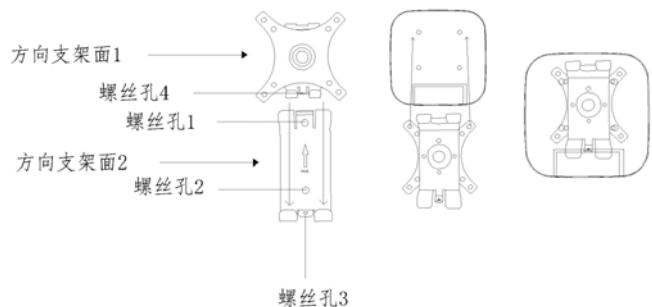
directly and make the deployment easier. The longest connection distance between the wireless access point and the server can reach 40m. Theoretically speaking, wireless AP could be installed in any place of the control room. The best way is to wall hung 2m above ground.

Notice: It should not have any metal within one meter of the installation site, otherwise, the signal transmission would weaken to some extent

### 3.2.2.2 WAP-30I Wireless Conference AP Installation



rack mounting



ceiling mounted or wall-mounted

# Chapter 4 Wireless Network Design

## 4.1 Introduction

GONSIN30000I system is composed of three parts: GONSIN30000I server, WAP-30 wireless AP, and DCS-3021 congress terminal.

## 4.2 Control Rules

**Control rule 1:** control capability

GONSIN30000I server can control up to 500 devices within a wireless network.

**Control rule 2:** coverage range

In order for the wireless parts to operate better, all wireless congress terminals must be within the coverage range of the wireless AP. Theoretically, the maximum coverage range for the AP is 30m×30m. During use, determine the actual coverage range of the AP.

**Control rule 3:** frequency

This wireless network must work within a frequency band that is different from the working frequency of adjacent PC network.

## 4.3 Frequency Band

**Specifications:** This wireless network is based on 2.4GHz wireless communication technology, so all devices work within the frequency band 2.4000~2.4835 GHz.

**Wireless PC Network:** The wireless PC network is based on 2.4GHz wireless communication technology as well and there are 13 channels available on the PC network.

**Carrier:** GONSIN30000I system, the frequency band 2.4GHz is divided into 85 channels; where, channel 0 and channels 80~84 are reserved for communication of fixed purpose. Channels 1~79 are switchable. Refer to Figure 1.3.

**Interference:** system will cause interference to the wireless network of PC. Make sure the wireless carrier of the system does not overlap with the WLAN channel.

**Example:** Refer to Figure 1.4. In this example, the WLAN works on channel 3 which overlaps with the wireless carriers 10~35 of GONSIN30000. Therefore, it is advisable to use frequency other than carriers 10~35 in order to ensure communications effect.

Use special measuring instruments to measure the actual wireless environment or use third-party measuring APP for evaluation.

Notes:

Though this system can work at any frequency, make sure to abide by specific frequency control rules of the country you locate.

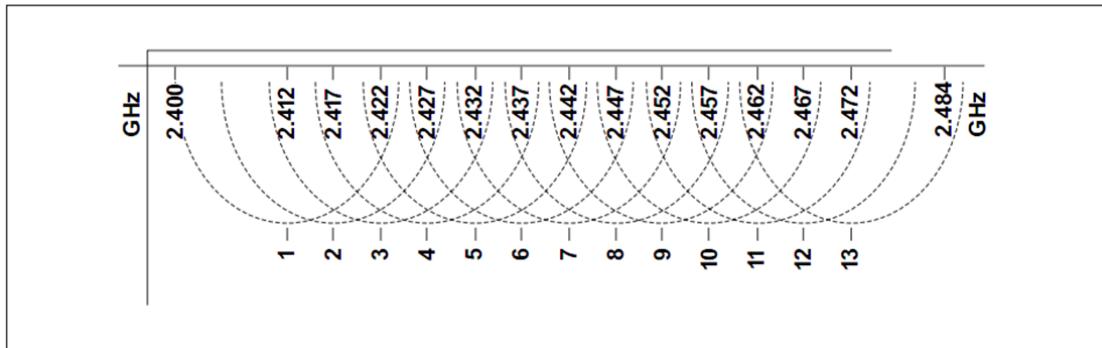


Figure 1.2 WLAN channel

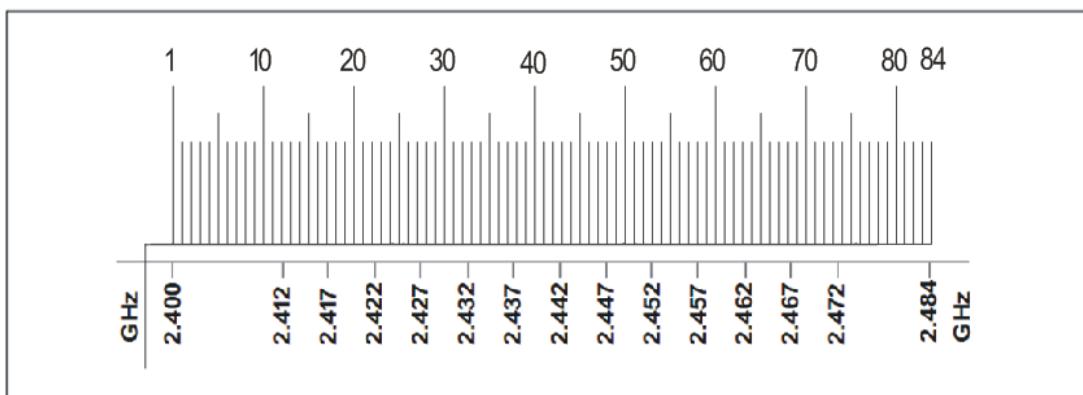


Figure 1.3 Wireless channel of the GONSIN30000I system

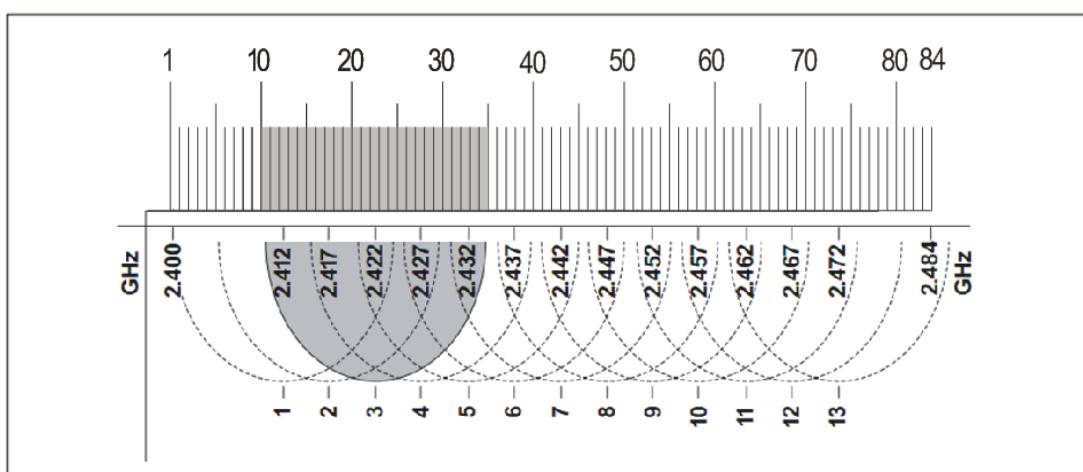


Figure 1.4 Signal interference example

## 4.4 Installation Rules

As a wireless communication device, the DCS3021 should be installed in accordance with requirements of wireless communication products. Remove any obstacle set between the wireless communication devices (communication range will be narrowed by obstacles) and remove any metal around (wireless signal is easily interfered by metals, especially aluminum). The wireless devices shall be kept as least 1~2m away from electronic products (electronic products such as starter, air conditioner, microwave stove, and TV set will emit radio wave which will interfere with wireless signal).

The degree of impact on radio signals varies with the different kinds of materials:

Minor impact - glass, wood, gypsum, asbestos

Major impact - water, brick, stone

Completely block - marble, cement, concrete, metal

The following instructions should be followed when you are installing the wireless AP WAP-30.

**Installation Height:** WAP-30 must be installed at 2.5m height at least to avoid human body from blocking communication between the WAP-30 and DCS-3021.

**Installation Distance:** The communication distance between WAP-30 and DCS-3021 should be as close as possible and within 30m.

**Installation Environment:** Do not set any metal or electronic product that will produce radio wave within 2m range of the WAP-30.

## Chapter 5 FS-FHSS Technical Indicators

### 5.1 Congress Server GONSIN30000I

Product name	GONSIN30000I congress server
Item	Parameter
Maximum processing capacity	500 (sets)
Communication distance	30m
Audio frequency response	30Hz-20KHz
Power dissipation	72W
Harmonic distortion	(THD) < 0.05% (total harmonic distortion 50Hz~8KHz)
Signal to noise ratio	≥75 dB (signal to noise ratio based on A weight)
Maximum audio output	LINE OUT:+20dBu;
Main power	AV110/220V±10% 50~60Hz
Installation	19inch standard rack
Dimensions (L × W × H)	1U rack (340mm×420mm×45mm)
Weight	4KG
Operating temperature	0~45°C
Storage temperature	-20~50°C
Interface for video tracking	RS-485
Speaking mode	AUTO, FIFO

Qty. of active microphones	1/2/3+1
Protocol for camera control	PELCO-P 9600/VISCA
Interfaces	<ol style="list-style-type: none"> <li>1. RS-232 × 1 (connected to a camera for video tracking);</li> <li>2. RJ-45 (connected to a PC);</li> <li>3. RS-485 bus (for camera control);</li> <li>4. 8P socket (connected to a wireless AP);</li> <li>5. One-channel balanced audio output (Cannon connector);</li> <li>6. Two-channel non-balanced audio output (RCA connector);</li> </ol>

## 5.2 TC-RFJ04S/08S/12S/16S parameters

Name Item	TC-RFJ04S/08S/12S/16S parameters
modulation mode	FS-FHSS technology
way of encryption	AES technology
frequency range	2.4~2.5G
Audio frequency response	220HZ~4.2KHZ (±3DB)
channel spacing	5MHz
distortion	<1.0%
Standby power dissipation	50mW
working temperature	0°C~45°C
Storage temperature	-20~50°C
power consumption	0.2W
W×D×H	100×52×18mm
weight	0.10Kg
Simultaneous wireless access point	The furthest distance of barrier free transmission 120 metre
Simultaneous wireless access point ( Back)	The furthest distance of barrier free transmission 50 metre
Indication / display	liquid-crystal display
manner of packing	Aluminum box portable package

## 5.3 WAP-30I technical parameters of Simultaneous wireless access point

Name item	WAP-30I Simultaneous wireless access point
	parameters
Frequency Range	2402MHz-2480MHz
Radiation Length	30m
working	0°C~45°C
Storage	-20~50°C
W×D×H	260×260×68mm
weight	1.2Kg

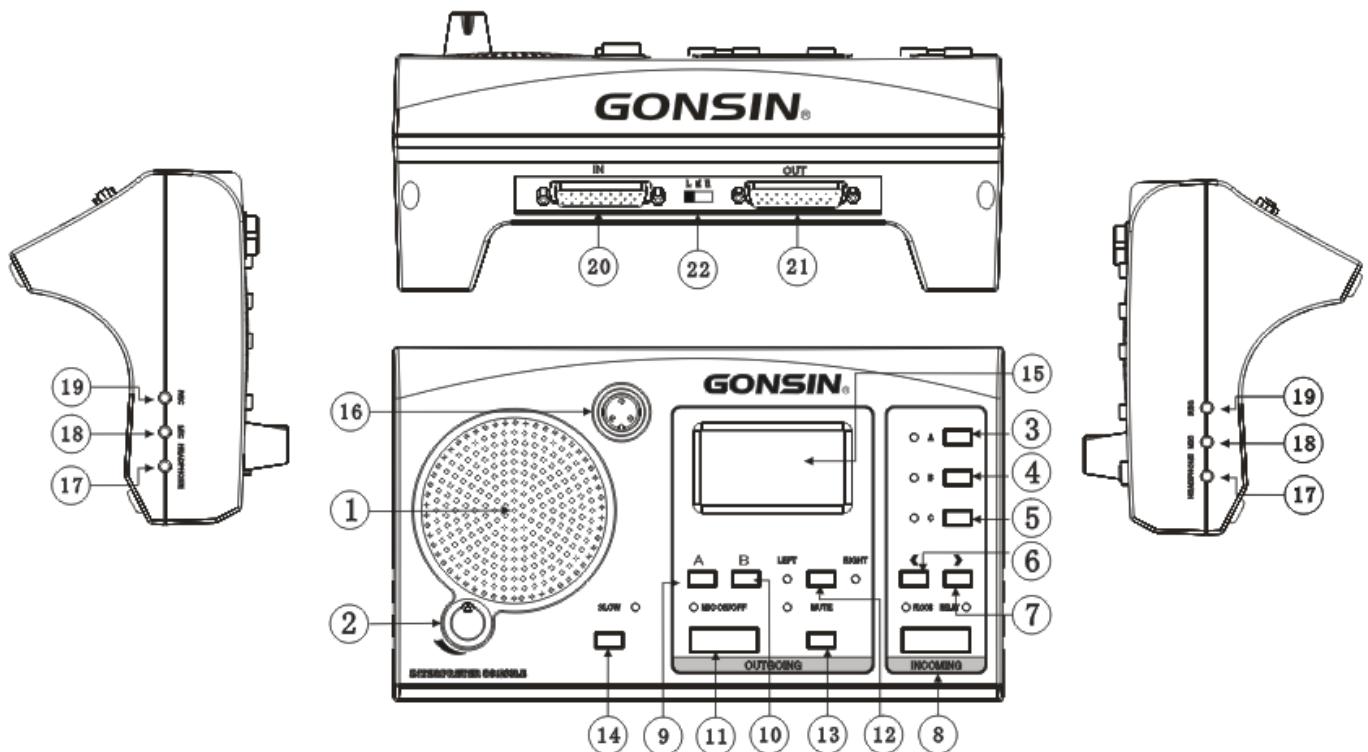
## Chapter 6 Interpreter Console

### 6.1 Overview

simultaneous interpretation system and it is used by an interpreter to render heard content into another language. Connect an interpreter console to an simultaneous interpretation central control unit or a discussion central control unit. Interpretation will be transmitted to the simultaneous interpretation central control unit via the interpreter console for processing to allow participants to select a required language to hear the interpretation via a recipient unit or discussion unit. The interpreter consoles support up to 16 channels and each of them is configured with a backlight LCD display, a loudspeaker, and a detachable MIC gooseneck stem. The interpreter consoles also support direct interpretation and indirect interpretation. Direct interpretation is that an interpreter listens to the

floor audio and renders heard content into another language so that the interpretation is directly transmitted along a preset channel; indirect interpretation is that an interpreter cannot understand the floor audio and he/she has to listen to the interpretation of another interpreter and then render the content into a required language.

## 6.2 Functions and Instructions of TC-F06



### Listening area:

Loudspeaker/headphone control:

1. Embedded 8Ω/2W loudspeaker

After the MICs of all interpreter consoles in a sound-proof booth are turned off and FLOOR indicator is turned on, the loudspeaker plays the floor audio.

2. Volume adjustment knob

### Input channel setting area:

3. Audio input channel A

4. Audio input channel B

5. Audio input channel C

6. Input & output channel presetting key, for selecting leftward

7. Input & output channel presetting key, for selecting rightward

8. By default, the floor audio channel is selected and the FLOOR indicator is on. If the MIC indicator is off, press **<** or **>** to set an input channel.

Press A, B, or C, the RELAY indicator is on, indicating indirect interpretation. Input channels for indirect interpretation are A, B, and C.

9. Output channel A confirmation key: an output channel must be confirmed or locked before the MIC can be turned on; if the output channel will be reset, turn off the MIC first.

10. Output channel B confirmation key: if the output channel will be reset, turn off the MIC first.

#### **Speaking area:**

11. MIC ON/OFF key: When the MIC is turned off, the system switches back to the floor audio channel and the OUT-A:XX output channel automatically; when the MIC is turned on, the system switches to the preset input channel but the output channel will not be changed. When the MIC is in ON status, output channel cannot be set.

12. Headset input key: this key is available only when the MIC is turned on. If the LEFT indicator is on, use the left MIC interface (18 in **Figure b**) to input voice; if the RIGHT indicator is on, use the right MIC interface (18 in **Figure b**) to input voice. When a headset is used, the indicator of the MIC gooseneck is off.

13. MUTE key: If an interpreter wants to cough, press and hold this key to mute the sound (the MUTE function is triggered when the MUTE indicator is on). Release this key and the output

channel is restored.

14. SLOW key: press this key to request the speaker to slow down. The conference unit of the speaker will have its MIC indicator or LCD display to flash, reminding the speaker to slow down. This function is available only when GONSIN fully digital conference system is used.

#### **显示功能:**

15. A highly bright LCD display (dimensions: 128×64) for interpreters to set parameters

#### **Interface area:**

16、16. MIC gooseneck interface

17、Left/right headphone output interface, used for connecting to a headphone to listen to a speaker

18、Left/right MIC output interface, used for connecting to a headset

19. Left/right record output interface; input content: interpretation

20. Input interface (IN): This interface is used to connect the first interpreter console to the central control unit and cascade interpreter consoles

21. Output interface (OUT): This interface is used to cascade interpreter consoles

#### **Volume adjustment area:**

22. Volume adjustment: L indicates low; M indicates medium; and H indicates H. Generally, the volume is set to L or M. It can be used in conjunction with the volume adjustment knob on

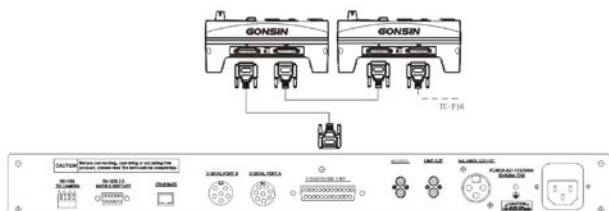
the simultaneous central control unit to adjust to a

required volume

## 6.3 Connect

### 6.3.1 Connection with Central Control Unit

TC-F06 is configured with a 3m and a 10m 25-pin extension cable. To connect the interpreter console with a central control unit TC-Z3, insert the male connector of a 3m extension cable to the output interface of the central control unit TC-Z3 and insert the female connector to the “IN” interface of the interpreter console. If the distance between the interpreter console and the central control unit TC-Z3 is long, adopt the 10m extension cable. The figure at the right side shows how to connect the interpreter console with a central control unit or extension unit.

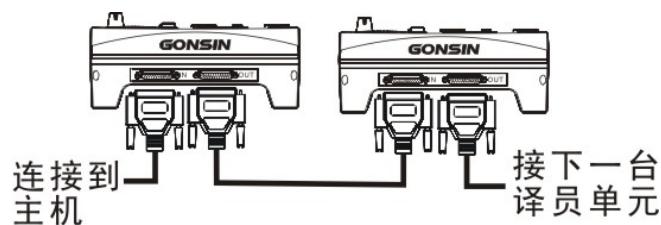


(Connection with central control unit)

### 6.3.2 TC-F06 Connection

TC-F06 interpreter consoles are connected in

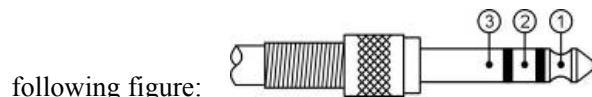
“hand-in-hand” mode using special 25-pin cables, which facilitate installation. To connect two interpreter consoles, use a 25-pin cable to connect the “OUT” interface of an interpreter console and the “IN” interface of another interpreter console. The following figure shows how to connect two interpreter consoles.



(TC-F06 connection)

### 6.3.3 Connection with Headset

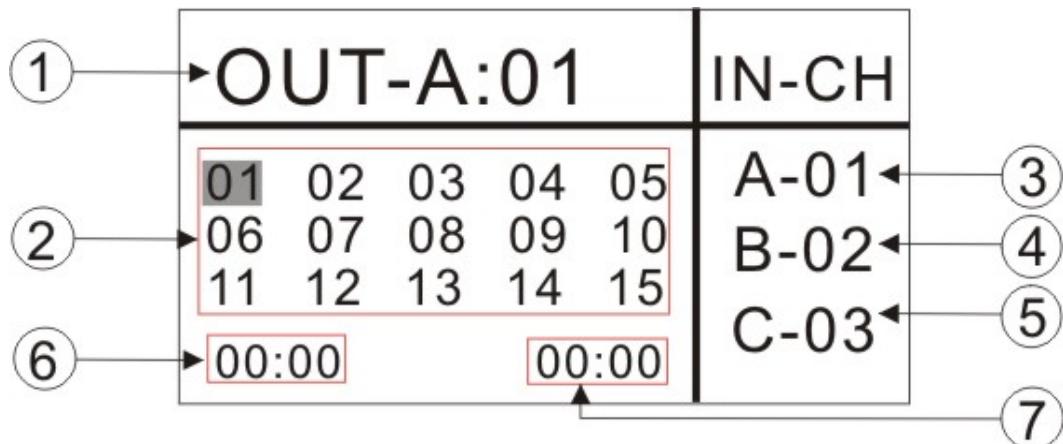
The interpreter console can be connected with a headset via the earphone jack and volume can be adjusted using the volume adjustment knob. The headset plug must be of Ø 3.5 mm. Refer to the



following figure:

- Functions and indicators:
- Pin 1 ----- left channel signal
- Pin 2 ----- right channel signal
- Pin 3 ----- battery grounding/shielding layer

## 6.4 译员终端 LCD 功能与显示



1. Audio output channel: If this channel is confirmed, it is steadily on; otherwise, it flashes. Audio output channels fall into A and B. In the preceding figure, output channel is set to A 01.
2. Audio output channel selection area: The selected (locked) channel will be grayed out. In the preceding figure, channel 01 is selected (locked).
3. Audio input channel A: Press key A to switch to this channel. In the preceding figure, input channel

- is switched to 01.
4. Audio input channel B: Press key B to switch to this channel. In the preceding figure, input channel is switched to 02.
5. Audio input channel C: Press key C to switch to this channel. In the preceding figure, input channel is switched to 03.
6. Preceding interpretation duration: hour: minute
7. Current interpretation duration: hour: minute

## 6.5 Direct Interpretation and Indirect Interpretation

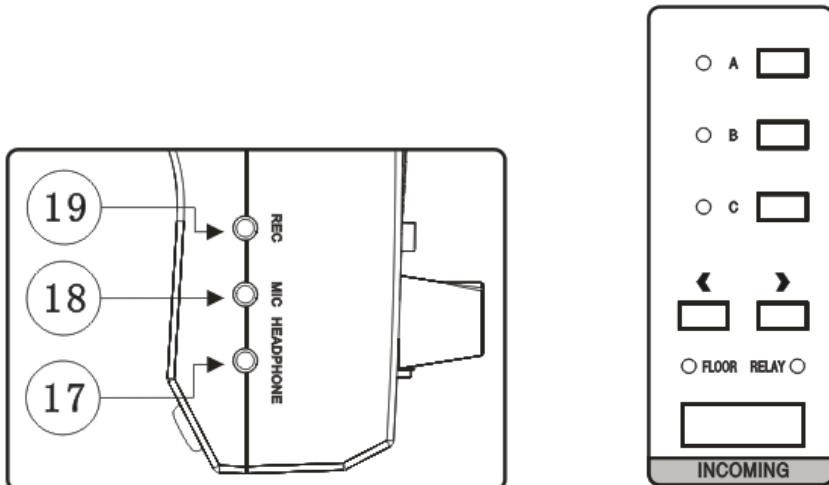
Before setting interpreter consoles, arrange interpretation booths and determine channels of each interpretation booth.

In general mode, if speaker's language is familiar to all interpreters, they just listen to the floor audio and render heard content into a required language. The interpretation will be transmitted along respective channel. This situation is referred to as "direct interpretation".

In indirect interpretation, an interpreter does not understand speaker's language and needs to listen to interpretation of another interpreter in order to render heard content into a required language.

During indirect interpretation, interpreters can use keys A, B, and C to select a language they understand. Since output channels of different booths are preset, a relay booth must be set in advance to allow the interpreters to switch to an understood language if they are not familiar with the language of a speaker.

## 6.5.2 Listening Area Setting



The listening setting area is used for selecting a floor audio channel or interpretation channel. This area is set at both sides of an interpretation unit and it is configured with a loudspeaker, MIC, and knobs. Such intuitive arrangement allows interpreters to quickly understand and familiarize with the unit.

1. Each audio channel represents a language. Setting audio channels not only facilitates interpreters but also provides a choice for participants to select desired language.
2. Press the floor audio channel (FLOOR) to hear floor audio. A headphone must be configured in order to hear floor audio.
3. To listen to another language, press key A, B, or C to select corresponding channel. If the required language is not preset, press **◀** or **▶** to select the required language.
4. Press the SLOW key to request the speaker to slow down. The conference unit of the speaker will have its MIC indicator or LCD display to flash, reminding the speaker to slow down. This function is available only when GONSIN fully digital conference system is used.

## 6.5.3 Speaking Area Setting

The speaking area is used for transmitting interpretation along a channel. This area is set at the left side of the interpreter console and it is composed of a pluggable MIC and channel selection keys.

1. Press the MIC ON/OFF key to transmit interpretation along a channel. A sound-proof interpretation booth can be configured with up to two interpreter consoles.

2. Output channel selection:

There are two output channels: OUT-A (corresponding to Key A) and OUT-B (corresponding to Key B). When the FLOOR indicator is on and MIC ON/OFF indicator is off, the output channel can be changed. Press  or 

**Example: to set OUT-A:01 and OUT-B:03**, refer to the following figures. The first figure indicates a startup page; and the second figure indicates that output channels have been set.

OUT-A:XX	IN-CH
01 02 03 04 05	A-01
06 07 08 09 10	B-02
11 12 13 14 15	C-03
00:00	00:00

OUT-B:03	IN-CH
01 02 03 04 05	A-01
06 07 08 09 10	B-02
11 12 13 14 15	C-03
00:20	00:02

When the MIC is in OFF state and the floor audio is selected, press  or ; the number after OUT-A:or OUT-B: will flash. If the flashing number is 01, press key A to confirm OUT-A:01. Press  or  again to increase or decrease the number; when the flashing number is 03, press key B to confirm OUT-B:03.

Note: The channels A and B can be interlocked and thus it is not allow to set them to identical values. If they are set to identical values, the interpreter consoles will be interlocked. Lock modes: OUT-A and OUT-A, OUT-A and OUT-B, OUT-B and OUT-A are interlocking; but OUT-B and OUT-B will not be interlocked.

3. If an interpreter wants to cough, press and hold the MUTE key to mute the sound (the MUTE function is

triggered when the MUTE indicator is on). Release this key and the output channel is restored.

## 6.6 About the 25P Cable of TC-F06

TC-F06 is configured with two types of cables:

25PS-10 (note: 10m long; resistance of a single wire < 3.3 ohm)

25PS-03 (note: 3m long; resistance of a single wire < 1.1 ohm)

Since cables will consume energy, it is advisable to control cable length. The following table lists recommended length for different configurations of the interpreter consoles:

## 6.7 Parameter of Interpreter terminal

Name Item	TC-F16 parameter
Audio frequency response	30~20KHz
distortion	<0.1%
Channel crosstalk	>85dB
Signal-to-Noise	>90dB
Interpreter terminal interface	25 PIn
Audio input / output	MIC×2 REC×2
working temperatur	0°C~45°C

power consumption	2.5W
W×D×H	247×145×95mm ( exclude MIC)
weight	1.2Kg
Indication / display	liquid-crystal display: 65mm×32mm

## Chapter 7 Cables and Configuration

### 7.1 Accessory

#### 7.1.1 HC-S612



Model HC-S612

Color black

Type Single mono headphone

Interface Ø3.5mm stereo

Impedance 32Ω±10%

Frequency response 20-20KHz

Voltage 0.4V

Input power 20-60mW

Distortion rate <5%

Note: Each interpretation unit (receiver or MIC) is configured with either model of this product

## 5.4.2 TC-D1



Model TC-D1

Color black metal

Type Single mono headphone

Interface Ø3.5mm stereo

Impedance 40Ω±10%

Frequency response 7-24KHz

Voltage 0.4V

Input power 8-50mW

Distortion rate <5%

Sensitivity L102dB±3dB

Note: Each interpretation unit (receiver or MIC) is configured with either model of this product.

## 7.1.3 TC-D3



Color Silver gray

Type Stereo headphone

Connector Ø3.5mm stereo

Impedance 60 Ω ±15%

Frequency 30-20KHz

Input power 30-50mW

Distortion <5%

Note: Each interpreter console is configured with such a product

## 7.1.4 TC-D2



Color silver grey  
Type stereo headphone  
Interface Ø3.5mm stereo  
Impedance  $60\Omega \pm 15\%$   
Frequency response 20-20KHz  
Voltage 0.8V  
Input power 30-50mW  
Distortion rate <5%  
MIC sensitivity  $-58 \pm 2\text{dB}$   
MIC direction all-round  
Note: Each interpreter console is configured with such a product

## 7.1.7 GX-315 (optional)



format Landing installation  
Height 60-150cm  
Angle horizontal  
Note: choose accessory

## 7.2 Layout

### 7.2.1 Interpreter terminal Cable 25P 10m/3m



Type 25P (one male connector and one female connector)

Length Two type of specifications: 3m/10m  
Connector 25P parallel interface

Note: each product is configured with cables of 3m and 10m

### 7.2.2 Extension Cable 6PS-03\05\10\15\20



Color Black  
Type 6PS  
Connector 1 x male connector 1 x female connector  
Length Five type of specifications: 3m, 5m, 10m, 15m, 20m

### 7.2.3 Connection cable 6P2-1.5

#### of Terminal with Basic

#### Discussion



Color black  
Type 6P2  
Connectot 2 x male connectors  
Length about 1.

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## Annex:

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The distance between user and products should be no less than 20cm