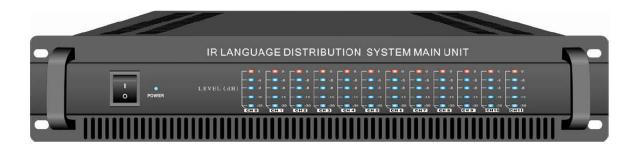


Prestel

Equipment for Simultaneous interpretation Systems



Simultaneous Interpretation Equipment

IR Language Distribution System

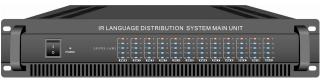
This system is ideal for use in business and government conferences, international conventions and other multilingual applications, offering simultaneous interpretation and wireless audio distribution for up to 6 different languages plus the floor language using state-of-the-art infrared transmission technology. It complies with the IEC industry standards, operating in the higher frequency band to avoid lighting interference.

PART ONE. System Configuration

Transmitter unit, IR Radiator, IR Receiver, IR receiver charger case and Interpreter unit

A. IR Transmitter unit

- 1. High security, prevent external interference.
- 2. Suitable for different conference hall
- 3. Automatic level control function (ALC).
- 4. No disturb under daylight lamp
- 5. Easy to operate and save in project cost
- 6. With the most advanced technology
- 7. Elegant configuration in accordance to ergonomics
- 8. Input channel direct function
- 9. Has 6CH interpreter's voice for record
- 10. Installed in a 19-inch frame



B. IR Radiator

- 1. Radiates & distributes up to 6 channels of audio signal
- 2. Auto switched on/off by carrier signals from transmitter unit
- 3. Auto gain control to ensure diodes with max. efficiency
- 4. Convection cooled for noiseless, reliable operation
- 5. Mounted on ceiling, wall, floor stand or optional tripod
- 6. Easily daisy-chained together to expand coverage
- 7. Half radiator angle: ±22°





C. Interpreter Unit

Design by the latest technology.

- 1. Work with headset earphone
- 2. 6CH simultaneous interpretation.
- 3. Easy to operate, just with a single press.
- 4. IR Transmitter unit could connect 5 interpreter's units.
- 5. Voice adjustable and with prevention on feedback
- 6. Ensure that every channel is correspondent to the RELAY function respectively.
- 7. Delegates speak too fast; give a request for slow the speed.
- 8. Automatic numbering on system units
- 9. Prevention on interpreter's cough
- 10. More people could take part in the conference when system is connected with IR language distribution system
- 11. Interpreter support 13p and 25p connection

D. IR Receiver

- 1. Pocket size wireless handheld unit
- 2. Accommodates up to 6 different languages
- 3. Channel selector and headphone connector
- 4. Power on/off switch and volume level control
- 5. Powered by rechargeable batteries





- 6. Aluminum carrying cases provided for receivers
- 7. Volume, channel, signal and battery power level display on LCD

E. IR Receiver Charger Case

- 1. Used for charging IR receivers
- 2. High efficiency switch mode
- 3. Input Voltage: AC220V
- 4. Charges 24pcs of IR receivers per charging
- 5. Dimension: 45.5×32×34 cm

PART TWO. Technical Data

1. IR Transmitter unit

a. Modulation mode: FM

b. Frequency synthesis: digital PLLc. Frequency band: 1.7 - 4.0MHz

d. Frequency response: 100Hz-14kHz

e. Frequency stability: 10ppm

f. Pre-emphasis: 75 μ Sec.

g. Distortion at 1 kHz: <0.5%

h. Channel separation: >70dB

i. RF output power level: 700mV

j. RF output impedance: 50 ohms

k. Input impedance: 18k ohms

I. Max. input power level: 2V

m. AGC range: 30dB

n. S/N ratio: >75dB

o. Power consumption: 40W

p. Operating voltage: 220VAC±5%

2. IR Radiator

a. Frequency band: 1.7 - 4.0 MHz

b. Max. IR output power: 25W

c. Max. coverage range: 30m

d. Output level control: Low/High (50%/100%)

e. Angle of half intensity: ±22°

f. RF output impedance: 50 ohms

g. RF input voltage: 100-2000mV

h. Power consumption: 55W / Stand-by 8W

i. Power Supply: 220VAC±5%

3. IR Receiver

a. Modulation mode: FM

b. Frequency synthesis: digital PLL

c. Carrier frequencies: 1.7 - 4.0MHz

d. Frequency response: 100Hz-14kHz

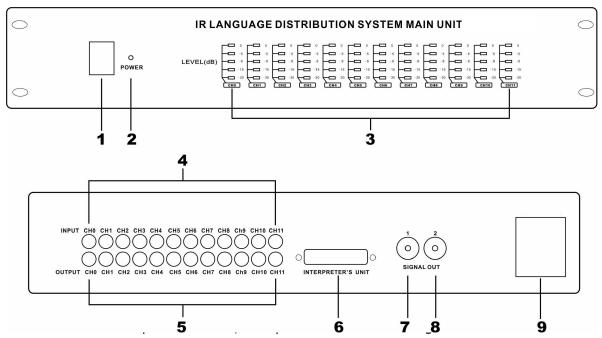
e. Pre-emphasis: 75 μSec.



f. Distortion at 1 kHz: <1%
g. Channel separation: >55dBA
h. Frequency stability: 10ppm
i. Operating voltage: 3.1V-5V
j. Power consumption: 60mW

PART THREE. OPERATING INSTRUCTION

A. IR Transmitter unit



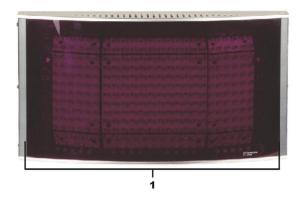
- 3. LEVEL INDICATOR: When there has audio output, the relevant channel indicator will flashing.
- 4. AUDIO INPUT CHANNEL CH0-CH5: The original audio can be from wire microphone or wire interpretation audio input equipment.
- 5. AUDIO OUTPUT CHANNEL CH0-CH5:
- 6. INTERPRETER'S UNIT: Main unit can connect 1∼5 interpreter unit by hand-in-hand connection.
- 7. SIGNAL OUT 1 (TO IR Radiator)
- 8. SIGNAL OUT 2 ((TO IR Radiator)

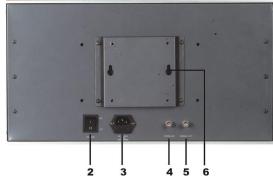
Use BNC cable to connect from the "SIGNAL OUT' port of main unit to "INPUT" port of IR Radiator, and connect the next IR Radiator from "SIGNAL OUTPUT" of previous one to "SIGNAL INPUT" port of nest one by BNC cable.

9. AC POWER INPUT: 220VAC±5%

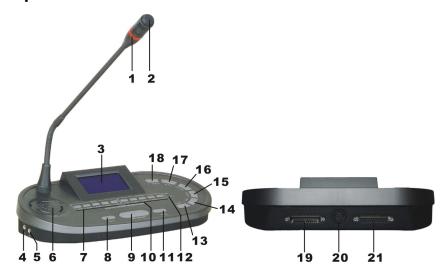
B. IR Radiator

- 1. Power indicator
- 2. Power on/off switch
- 3. AC POWER INPUT: 220VAC±5%
- 4. Signal input BNC jack: connect to the "SIGNAL OUT' port of main unit or previous IR radiator output port.
- 5. Signal output BNC jack: connection to the next IR radiator input port
- 6. Fixable orifice





C. Interpreter Unit



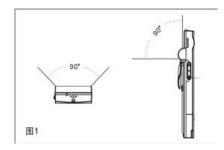
- 1. Microphone red indicator to show mi state
- 2. Unidirectional electrets' MIC
- 3. Microphone LCD, can display input and output channel
- 4. MIC.3.5mm input jack to connect the microphone.
- 5. Phone 3.5mm input jack
- 6. Inner speaker
- 7. Microphone input channel (fast key channel 0-5)
- 8. Slow key: delegates/interpreter speaks too fast; give a request for slow the speed.
- 9. Microphone on/off key

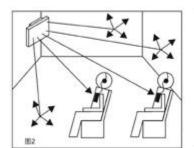
- 10. Microphone output channel (fast key channel 1-5)
- 11. Mute key: Prevention on interpreter's cough
- 12. Channel busy/mute indicator
- 13. Volume -: Decrease the input volume
- 14. Volume+: Increase the input volume
- 15. Output channel-
- 16. Output channel +
- 17. Input put channel -
- 18.Input channel +
- 19.Input DB25 connector: first unit connect to the main unit, and the next unit connect the previous unit output port.
- 20. Output DB25 connector: connect the next interpreter's unit.

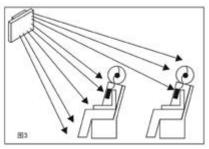
D. IR Receiver

- 1. LED display the signal, channel and power level
- 2. Volume -
- 3. Power on/off
- 4. IR Lens
- 5. Earphone jack: used for connect earphone to receiving the sound.
- 6. Channel +
- 7. Volume +
- 8. Channel -
- 9. Battery cover lock: the cover can be locked, and it can opened with key
- 10. Rechargeable interface

PART FOUR. The Installation Introduction of IR radiator







The Direction and Sensitivity of IR Receiver (Fig.1)

(Fig.2)

The infrared ray is a kind of directional and sightless light; the sensitivity of the IR receiver is the best when the receiver faces the IR radiator. The receiving angle of the IR receiver is level and vertical $\pm 45^{\circ}$ (Fig. 1) The signal receive directionality within this range is the best.

The infrared emission signal is a kind of sightless light, it can transmit the signal to the IR receiver directly or reflecting (Fig.2) so you should consider this factor while installing the IR radiator. It is the best that the IR receiver receives the signal directly, But the reflected signal can also improve the signal effect. The front-seat audience will block the signal of the back row IR receiver in the large-scale meeting-place, it will influence the receiving effect, So you'd better install the IR radiator a little higher.



PART FIVE. Configure

Required Performance

- The area of meeting room is 600 square meters.
- 55 countries' languages are to be interpreted.
- Rostrum holds 20 representatives and 240 delegates

List of Equipment

Name	Quantity
IR Transmitter unit	1
IR radiator	4
Interpreter Unit	5
Headset earphone	5
IR Receiver	240
Receiver charger case	10
Receiver earphone	260
Conference system main	1
unit	
Delegate unit	19
Chairman unit	1

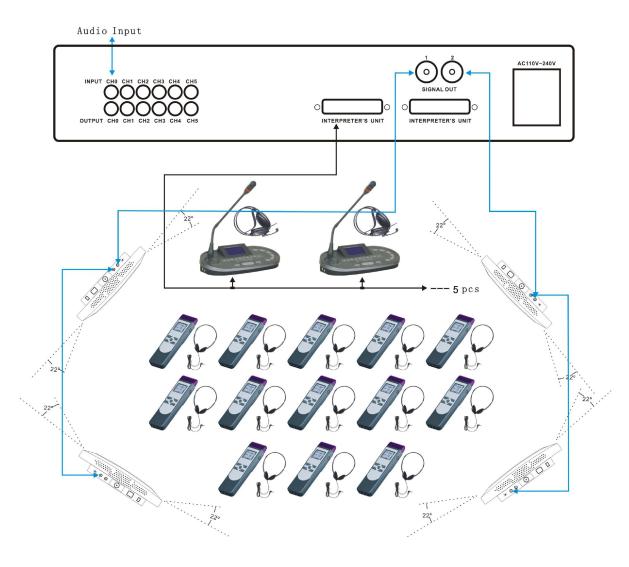
PART SIX. System set up and debug

1. Connect IR Transmit main unit to Interpreter unit

Use DB25 cable to connect from the "INTERPRETER'S UNIT' port of main unit to "INPUT" port of interpreter unit, and connect the next interpreter unit from "OUTPUT" of previous one to "INPUT" port of nest one by DB25 cable.

- 2. Connect IR Transmitter unit to conference system main unit
- Use the Audio cable connects from the RF output port of conference system main unit to "SIGNAL IN CH0" port of IR Transmitter unit.
- 3. Connect other equipments to IR Transmitter unit.
- Use the RF cable connects from the output port of the equipments to "SIGNAL IN" port of IR Transmit main unit.
- 4. Connect IR Transmitter unit to IR radiator
 - A) Use BNC cable to connect from the "SIGNAL OUT' port of main unit to "INPUT" port of IR radiator, and connect the next IR radiator from "SIGNAL OUTPUT" of previous one to "SIGNAL INPUT" port of next one by BNC cable..
 - B) Turn on other equipments to test if they can work properly.

PART SEVEN. PROJECT FOR INFRARED LANGUAGE DISTRIBUTION



SERVICE MANUAL OF TROUBLE SHOOTING

	SERVICE MANUAL OF TROUBLE SHOUTING			
TROUBLE	SOLUTION			
		Please check the connection of power supply		
	Main unit	cable		
		Please make sure the power switch has turn		
No power		on		
		Please check the fuse and replace it if it have		
		fused		
	Receiver	Please make sure the battery in the receiver		
		Please replace the battery if the power use up		
		Please check the power touch panel touch the		
		battery well		
	Interpreter	Check interconnection cable connect DB25		
		port well		
	IR Radiator	Please check the connection of power supply		
		cable		
		Please make sure the power switch has turn		
		on		
Drill noise in the	Please switch the testing on-off to off position in the main			
receiver	unit			

Lower signal or noise in	Debug the direction of IR Radiator	
the receiver	Increase the quantity of IR Radiator	
	Debug the receiving direction of receiver	
Can not receive the	Please check the interconnection cable of the equipments	
signal	Please make sure the receiver earphone and interpreter	
	headset can work well	
Interpreter can not	Please check if other interpreter has use this channel	
select the channel		