D6391 Digital Infrared Simultaneous Interpretation System for International Conferences

System Overview

- With the advancement of globalization, international conferences and multilingual communication have become essential aspects of the daily operations of multinational corporations, government agencies, and various international organizations. In multilingual environments, it is crucial to ensure that all participants can clearly and accurately understand each speaker's message for the conference to proceed smoothly. Therefore, adopting an efficient and reliable simultaneous interpretation system is crucial.

- The Digital Infrared Simultaneous Interpretation System is a wireless audio transmission system that utilizes infrared technology. It is designed for international conferences requiring multiple languages. Interpreters provide real-time translations of the speakers' speeches so that all participants can understand the discussion. These interpreted messages are transmitted throughout the venue, allowing attendees to select their preferred language and listen via headphones. Additionally, the system can be used for music playback and emergency audio signals.
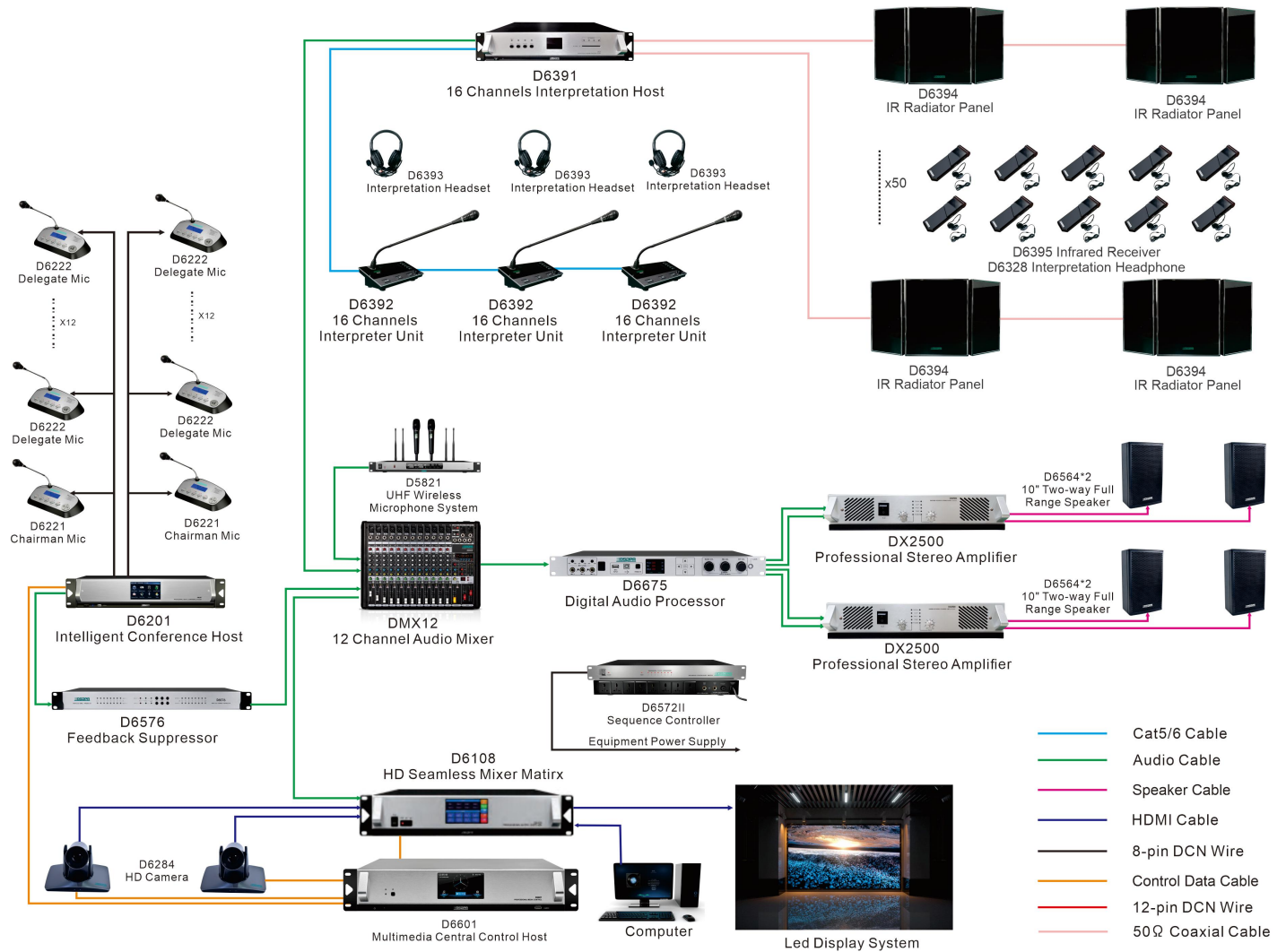

Design Objectives

- **Language Requirements:** The system must support real-time translation in at least 3 to 5 languages, ensuring that most participants can listen in their native or a familiar language.

- **Equipment Requirements:** The system should deliver high-quality audio output, stable signal transmission, and clear, even coverage across large conference rooms.

- **Multifunctionality:** It should offer various features such as meeting recording, close-up tracking, and voting selection to accommodate the diverse needs of international conferences.

- **Security Requirements:** Given the sensitive nature of conference content, the system must ensure a high level of confidentiality to prevent signal leakage or interference.

System Architechure

No.	Model	Product Name	Quantity
Simultaneous Interpretation System			
1	D6391	16 Channels Interpretation Host	1
2	D6392	16 Channels Interpreter Unit	3
3	D6393	Interpretation Headset	3
4	D6394	IR Radiator Panel	4
5	D6395	Infrared Receiver	50
6	D6328	Interpretation Headphone	50
Audio System			
1	D6201	Intelligent Conference Host	1
2	D6221	Chairman Mic	2
3	D6222	Delegate Mic	24
4	D5821	UHF Wireless Microphone System	1
5	DMX12	12 Channel Audio Mixer	1
6	D6573	Feedback Suppressor	1
7	D6575	Digital Audio Processor	1
8	MX2500II	Professional Stereo Amplifier	2
9	D6564	10" Two-way Full Range Speaker	4
Camra Tracking Display System			
1	D6284	Hight Definition Camera	2
2	D6108	HD Seamless Mixer Matirx	1
3	D6601	Central Control System Host	1
4	D6572II	Power Sequence Controller	1

Configuration Plan for a 200㎡ Conference Hall

- 24 delegate microphones, 2 chairman microphones, and 3 interpreter units, supporting simultaneous interpretation in 3 languages.
- 4 infrared radiation panel, with installation height and angle determined based on the site conditions; can cover the entire area of use.
- 50 infrared receiver units, which can be freely allocated to attendees who need to listen to the translation.
- Main conference host; with voting capabilities, enabling live voting for decision-making, combined with a camera (D6284) to track camera images, and video matrix system scheduling. It allows for tracking shots, live streaming, or recording depending on the conference venue.
- 12-channel audio mixer, along with a set of dual handheld wireless microphones and a computer for speeches and audio/video playback. Additionally, the system includes an audio processor, feedback suppressor, amplifier speakers, power sequence controller, and other common sound reinforcement processing equipment in the conference room.

System Advantages

- The system utilizes wireless RF technology and advanced infrared technology to minimize blind spots in application.

- Designed for high-quality audio transmission, strong security, excellent stability, and robust anti-interference capabilities.

- Easy to operate and manage, offering user convenience and delivering CD-quality sound.

- The simultaneous interpretation system allows speakers and interpreters to communicate almost simultaneously, saving conference time and improving efficiency.

- The system supports close-up tracking and voting selection, catering to the multifunctional needs of conference venues.

(IR Radiator Panel) D6394

(Interpretation Headphone) D6328

Simultaneous Interpretation System Production

D6391

D6394

D6392+D6393

D6395+D6328

Infrared Transmission System: The infrared transmission system transmits translated audio signals to the conference venue's receiving devices via infrared transmitters. Utilizing digital infrared technology, the signals are not blocked by walls or other obstacles, ensuring strong anti-interference capability.

D6394 IR Radiator Panel: Typically installed at the front of the conference room, the digital infrared transmitter ensures full coverage of the conference area. Transmission channels can be flexibly adjusted based on conference requirement.

Simultaneous Interpretation Equipment:

D6392 16 Channels Interpreter Unit: Used to receive the original audio input (usually from the speaker's microphone) and convert it into the target language through real-time translation. Supports multilingual interpretation.

D6393 Interpretation Headset: Interpreters listen to the original language in real-time through the headset, then output the translated speech to the transmission system via a microphone.

Reception System: Participants use receivers to receive interpretation signals and select the appropriate channel to listen to the translated content. The receivers come with earphones, allowing attendees to adjust the volume as needed.

D6395 Infrared Receiver: Supports simultaneous reception of multiple channels without interference between different language channels, providing participants with flexible selection options.

D6328 Interpretation Headphone: Each participant is equipped with high-quality earphones to ensure clear and immersive audio.

Product Introduction_D6391 16 Channels Interpretation Host

2.4" TFT Screen

Supports PoE 48V power supply and allows up to 5 interpreter units to be connected in a hand-in-hand configuration.

Fully Digital Design & High Confidentiality
Adopts a fully digital design to ensure high audio quality and strong confidentiality, making it ideal for multilingual environments requiring high security.

High Throughput & Advanced Wireless Modulation Technology:
Utilizes a new FPGA architecture and advanced DQPSK wireless modulation technology to achieve high throughput and stability, adapting to complex environments.

Flexible Multi-Channel Support
Supports 16 wireless channels and 16 RCA audio input/output channels, making it suitable for large-scale multilingual applications with high scalability.

Multiple Operation Modes for Various Scenarios
Offers multiple mode options, including Normal Mode, Leisure Mode, and Emergency Mode, to meet different operational needs.

Infrared Signal Transmission & Anti-Interference
Signal transmission through infrared light features spatial closure, free from radio interference, ensuring high stability and confidentiality.

High-Quality Audio & Precise Volume Control
Support both standard and high-quality audio modes, with independent volume adjustment for each channel to meet diverse user requirements.

Product Introduction_D6392 +D6393

Adjustable Volume & Cough Suppression

Supports volume adjustment and cough suppression to prevent coughing sounds from being transmitted, ensuring clear audio.

Intuitive Display & Management

Equipped with a 5-inch TFT color screen, displaying unit ID, network status, and monitoring volume in real time for easy management and adjustment.

Secondary Translation Features

Allows secondary interpretation when interpreters do not understand the speaker's language by listening to another interpreter's translation.

(16 Channels Interpreter Unit)D6392
+(Interpretation Headset) D6393

Dual-Function Support

Supports simultaneous speaking and monitoring, enabling multitasking.

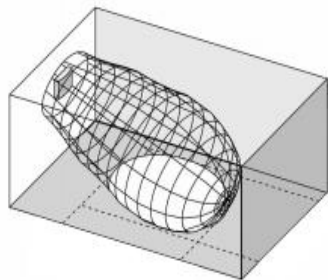## Multiple Microphone Rod Options

Offers an electret short microphone rod with a choice of gooseneck or square mic rod, both rotatable and detachable.
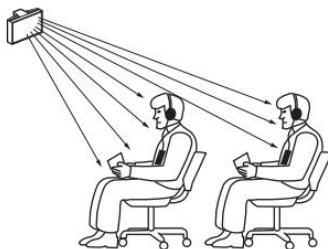
Host-Powered Supply

The system can be powered using a host with a 48V-powered network port. It supports a hand-in-hand (daisy-chain) power supply configuration, allowing up to 5 units to be connected in series. If more units need to be connected in series, a separate power adapter will be required to power each additional unit.

Product Introduction_D6394 IR Radiator Panel

The radiator panel is installed at a 15-degree angle, with a height of 3 meters, covering an area of 60 square meters.

The infrared signal is not obstructed by the person in front of the attendees.

D6394
IR Radiator Panel

01

Wide Compatibility & Standards Compliance

Complies with IEC 61603-7 standards, supporting interoperability with other compatible devices.

02

Efficient Signal & Stability

Fully digital design with cable transmission delay compensation ensures high-quality and stable signals

03

Flexible Coverage & Expansion

High-power radiation tube supports a radiation distance of over 30 meters and can extend coverage through hand-in-hand connection.

04

Adaptability to Various Spaces

Adjustable radiation angle easily adapts to irregular spaces.

Product Introduction_D6395 Infrared Receiver

International Standard Compatibility

Complies with IEC 61603-7 standards, supporting interoperability with other standards-compliant devices.

High Sound Quality & Stability

Fully digital design with DQPSK wireless demodulation technology ensures high sound quality and stability.

Long Operation & Low Power Consumption

Supports over 16 hours of continuous operation with a low-power design to extend usage time.

Convenient Management & Intelligent Features

Includes low battery alerts, automatic shutdown, and other features to extend device lifespan and facilitate management.

Excellent Optical Performance

With bandpass filter design, it can work normally in complex lighting environment and avoid interference.

Flexible Use & Comfortable Design

Supports channel selection, ergonomic design, and convenient charging, making usage more convenient.

Features:

- Operates on AC 110V-220V power supply.

- Capable of charging up to 30 receiver units simultaneously.

- Equipped with a retractable handle and wheels for easy mobility.

D6395CB
Digital Infrared Interpretation System
Charging Box

Specifications	
Power	200W
Number of Charging Bits	30PCS
Max. Charging Current Per Unit	1000mA
Charging Time	Around 3.5 hours
Power Input	AC110V-220V
Product Dimension（L*W*H）	400*315*650mm
Package Dimension (L*W*H)	490*410*740mm
Net Weight	13.5Kg
Gross Weight	15Kg

Application Scenarios

Diplomatic Conferences

Corporate Training

Television Broadcasting

Seminars

Business Negotiations

The digital interpretation system is widely used not only in international conferences but also in diplomatic affairs, negotiations, business events, news media, training sessions, television broadcasting, international arbitration, and many other fields.

CREATING THE BEST,

SOUNDING THE WORLD

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