Digital Audiovisual Conference System
D6201 & D6108

DSPPA

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System Introduction

Based on ARM9 embedded system platform, using high-performance DSP digital audio processing technology and high-fidelity line design, D6201 system **integrates the advanced control technology with audio processing technology to achieve a digital, visual audio and video conference system**. The system host has built-in DSP technology to filter noise, and provide professional audio quality only. Easy to operate,

The D6201 system **with computer network as the platform, digital long-distance transmission, signal stability, rich interface to meet the needs of various conference applications.**

Support discussion, voting, meeting sign-in, teleconference,the host comes with its own function detection and screening, USB recording in the way you're free to sync up and focus on the one thing that matters.

Wildly use,price effective,also easy to operate.

Attainable Functions

Sound reinforcement

Speech & discussion

Signal processing

Software control

Timing

Recording

Audio and video switching system

Attainable Functions

Sound reinforcement

Speech & discussion

Signal processing

Software control

1. Sound reinforcement system

In terms of sound reinforcement, it focuses on the clarity of speech sound reinforcement, sound transmission gain, sound pressure level, sound field uniformity, and music playback sound quality, which can be achieved through digital audio processing. The whole system is mainly composed of conference system D6201, video matrix equipment D6108 and professional sound reinforcement system equipment. Among them, **the audio sound reinforcement system is mainly composed of speakers, power amplifiers, mixers, microphones, audio sources and other equipment, which can realize simple meetings, speeches, special topic seminars and other needs.**

2. Speech and discussion function

The chairman unit has the priority to speak, which supports four conference speech modes: first-in first-out mode, normal mode, free mode, and application mode.

3. Video signal processing function

It adopts a 120" projection screen, an engineering projector with a brightness of 6500 lux, **a camera D6283II and other display devices to realize the coordination, processing, and switching of input and output signals.** The input signal can be switched and combined at will for a flexible signal central processing function.

4. PC and mobile phone control function

It supports TCP/IP protocol, and all functions of the system can be remotely controlled through the PC **software** and mobile phone software, realizing the efficiency of the system.

Timing

5. Speech timing and system recording function
The administrator/secretary sets the display of a certain unit to display the speaking time (the time duration the microphone is turned on, which can be used as a timing reminder). **Plug a USB flash disk into the host D6201 to record the whole conference audio for easy archiving.**

Recording

Audio and video switching system

6. Audio and video switching system
The D6108 video matrix system can switch any camera video signals, video conference terminal signals, computer signals of information points, and various types of external signals to the corresponding display terminals as needed to ensure the orderly progress of the conference. It adopts a matrix signal switcher with flexible configuration, high-performance hardware, without black screen and crack during the switching process, to perfectly support various high-definition digital/analog signal switching processing. Combined with wiring engineering to embed various cables in the conference room, the matrix in the system is equipped with high-definition cables to achieve lossless signal transmission, ensure signal transmission quality, and improve transmission distance; as well as achieve seamless connection, conversion, switching, and transmission of various video signal sources in the system, and centralized and unified management of all information access points and other signal sources in the conference room.

System Highlights

Digital Conference System Application

■ Main Devices

D6201 Digital Conference System Host

- Conform to IEC 60914 international standard
- **4.3" TFT touch screen**, friendly graphical interface, easy to use
- **Support management of Voting and Speech Limit** etc.
- Support VIP Mic setting (up to 30), VIP Mic can speak freely in all the 5 conference modes
- The conference host can connect to **128 conference Mic**, can extend to **4096 conference Mic via extender**
- 8-pin conference cable connection, support cascaded connection
- FIFO, NORMAL, VOICE, FREE, APPLY five **conference modes**
- Support simultaneous speakers limit setting of 1/2/3/4/5/6
- Built-in DSP sound processor, support low-cut, frequency-shift and equalizer control
- Support conference recording, manually or automatically
- Support speech timing function, can set up speech time limit and reminder
- Support video tracking, with 6 HDMI in and 1 HDMI out, 6 BNC in and 1 BNC out
- With **RS232 interface to link with central control system, with RS422 interface to control 6 cameras**
- 8-pin female interfaces: 1 for Interpretation Host, 1 for extender, 3 for conference Mic
- RCA interfaces: 2 AUX input, 2 AUX output, 2 Alarm input with override function
- XLR interfaces: 2 AUX output to amplification system
- **+5V Alarm trigger interface:** interact with the 2 Alarm RCA input
- **RJ45 interface: based on TCP/IP protocol, support computer remote control**
- **Support Android pad remote control**

D6200
Digital Conference System Software (PC)

Conference layout design

Conference Mic setting

Conference host set-up

Cameras set-up

Chairman Microphone & Delegate Microphone

- Conform to IEC 60914 international standard
- **Built-in LCD screen,** can display information as Mic ID, voting result, sign-in number, etc. **easy to use**
- Integrated with functions of **speech, voting and built-in speaker** Hi-Fi speaker, will be muted automatically when the Mic is turned on to avoid whistling
- **Two colors indicators,** red stands for speaking, green stands for applying to speak
- 3.5mm stereo earphone jack, **independent volume adjustable**
- With 5 buttons for voting, with sign-in function
- **Every Mic with unique ID code**, can be set up via host D6201
- With camera tracking function that we can set up via host
- Power supply from the host/extender, working power DC 24V
- Support cascaded linkage, T shape linkage or + shape linkage
- Chairman Mic with **priority** functions, can be set up via host D6201 or PC software

D6221
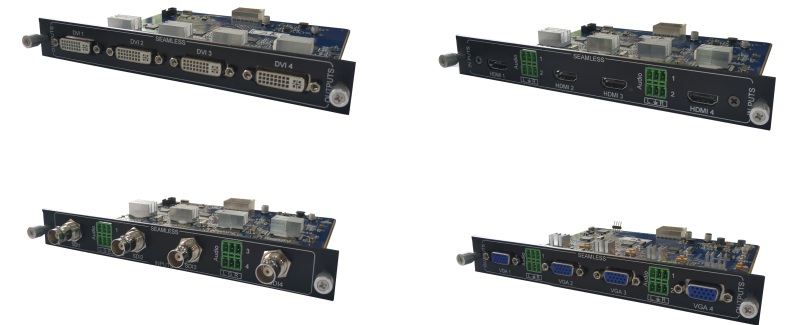**Chairman Microphone**
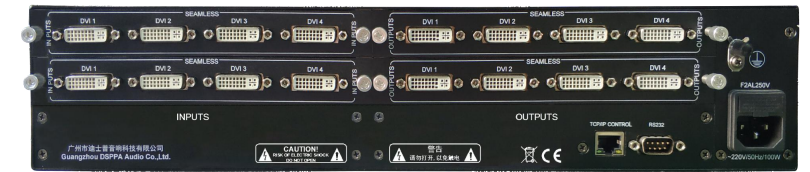
D6222
Delegate Microphone

D6283II HD Conference Camera Tracking Camera

- 1/2.8 inches high quality image sensor, maximal 1920×1080 resolution, output frame rate 60fps
- 12, 20 or 30 times optical lens to choose
- High signal-to-noise ratio CMOS image sensor to reduce noise effectively, with 2D and 3D noise reduction technology to attain clear image in low-light environment
- **Support HDMI HD output, 3G-SDI and wired LAN HD output, support simultaneous video output of HDMI, SDI, and network**
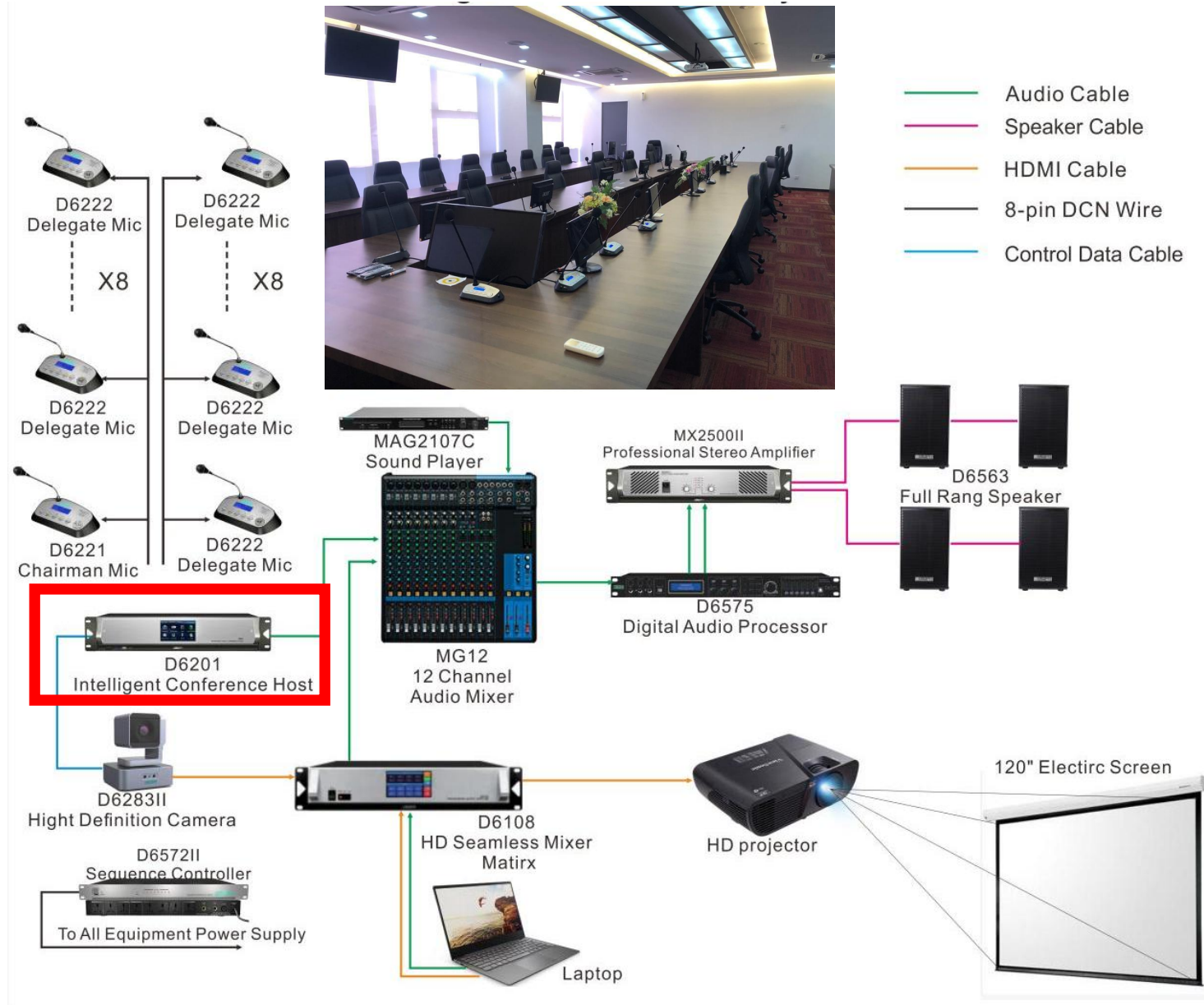- No noise or howling when rotating

D6108 2K HD Seamless Mixed Matrix

- **Touch screen**, friendly graphical interface, easy to use
- **Support 8-channel, 16-channel, 32-channel signal inputs and outputs**
- **Intelligent matrix system for audio and video signal switching, compatible with different audio signal input/output signal cards**
- **Signal cards matched include: HDMI, DVI, VGA, SDI, AV seamless input / output signal cards**
- Support multiple signal input and output cross matrix switching, providing independent video signal and audio input and
- output terminals
- The audio and video signals of each video signal are transmitted separately and switched separately to minimize the
- attenuation of signal transmission. The image and sound signals can be output with high fidelity and can be matched
- with the input and output signal cards randomly
- Support **power-off protection**, **power-off memory, audio and video synchronization or separate switching**
- **With RS232 communication interface and TCP/IP (optional function) control, it can be easily used with personal computer,**
- **remote control system or various remote control devices**
- Mainly used in radio and television engineering, multimedia conference halls, large-screen display engineering, television
- teaching, command and control centers and other occasions

Signal cards

System Connection Diagram

Legend:
- Audio Cable
- Speaker Cable
- HDMI Cable
- 8-pin DCN Wire
- Control Data Cable

D6222 Delegate Mic
D6222 Delegate Mic
X8
X8
D6222 Delegate Mic
D6222 Delegate Mic
D6221 Chairman Mic
D6222 Delegate Mic

MAG2107C Sound Player
MX2500II Professional Stereo Amplifier
D6563 Full Rang Speaker
D6201 Intelligent Conference Host
MG12 12 Channel Audio Mixer
D6575 Digital Audio Processor
D6283II Hight Definition Camera
D6108 HD Seamless Mixer Matirx
HD projector
120" Electirc Screen
D6572II Sequence Controller
To All Equipment Power Supply
Laptop

Solution Example

DSPPA D6201 digital conference system is used in a conference room in a new building in the Arabian Peninsula, Saudi Arabia. **The conference room is 14 meters in length, 5 meters in width, covering an area of 70㎡, and has 14 seats. It is mainly used for meetings, training, and information release. It needs display system, conference sound reinforcement system, and digital discussion system to realize synchronous real-time display** of multi-channel video signal/VGA/HDMI signal/mixed video signal.

Solution Design

Digital conference system:
It is composed of conference control host D6201, speaking mic D6221/D6222 and other related equipment to meet the requirements of conference functions such as speech and discussion of participants in each conference room. Configure the tracking camera D6283II. When a conference mic is turned on, the tracking camera will track the position of the speaker for close-up, and transmit the signal to the matrix or directly to the display device for viewing.

Video system:
It is composed of 8-channel plug-in host D6108, 1 HDMI input card (4 channels), 1 HDMI output card (4 channels) to meet the needs of camera tracking, video playback, work report presentation, etc. in the meeting. The HDMI matrix forms a central signal management system for the signal processing part to achieve powerful signal switching, scheduling and other tasks.

Sound reinforcement and audio processing equipment:
It is equipped with a MG12 mixer for audio access in the meeting room. In addition, D6575 is used as a professional audio processing equipment to make the voice clear, distortion-free and no feedback howling, 4 full-range wall mount speakers D6563 is used in the conference room to meet the sound field requirements of the venue, and 1 2*400W dual-channel amplifier is used to promote sufficient on-site sound pressure margin, uniform sound field, accurate sound image positioning, etc.

Installation Scenes

D6563
8" Two-way Full Range Cabinet Speaker

Features

- Two way full range cabinet with reflex bass technology
- Equipped with high quality woofer and tweeter, ensure excellent performance
- Anti resonance designed cabinet, painted metal mesh with sound transmitting cotton
- Tweeter with advanced treble shock absorbing technology, making treble sound more clear and pleasant
- Woofer unit with strengthened paper coil, adopts unique magnetic circuit technology, making bass sound more resonant

Projects Gallery

18th Asian Games，Indonesia

ASEM summit，Laos

Arxan Forum, Inner Mongolia

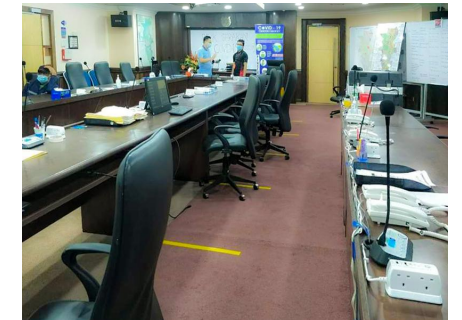Shandong Provincial Game Rizhaou

MOI conference room, Kuwait

Bangladesh Bank

Bloom Holding in Mecca, Saudi Arabia

MBSA, Malaysia

Ministry of Agriculture, Sri Lanka

Port Autonome De Douala, Cameroon

Belad Bont Resort, Oman

Ateneo de Davao University, Philippines

DSPPA, Never Stop！

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