D7101 Series
IP Network Conference System

DSPPA Conference Systems

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DSPPA Conference Systems

1 System Introduction

Based on the ARM9 embedded system platform, using high-performance DSP digital audio processing technology and high-fidelity line design for wired conference mic connection, the D7101 Series **IP Network Conference System** supports 5G WiFi wireless conference mics to achieve digital and visualized all-round conference system. The system features discussion and speech, voting, meeting sign-in, electronic desktop nameplate, teleconference, automatic camera tracking, and full conference recording. Besides, it can support PC-based software remote conference control, and Android tablet wireless control.

The system includes 3 connection methods for wired and wireless mics: **1. pure wired mic connection; 2. pure wireless mic connection; 3. wired and wireless mics hybrid connection**.

The wired conference mics in the system are connected with a shielded CAT5 or CAT6 network cable, and the wireless conference mics are connected by 5G WiFi for encrypted wireless connection, which is characterized by simple installation, convenient construction, safety and reliability, and strong anti-interference ability.

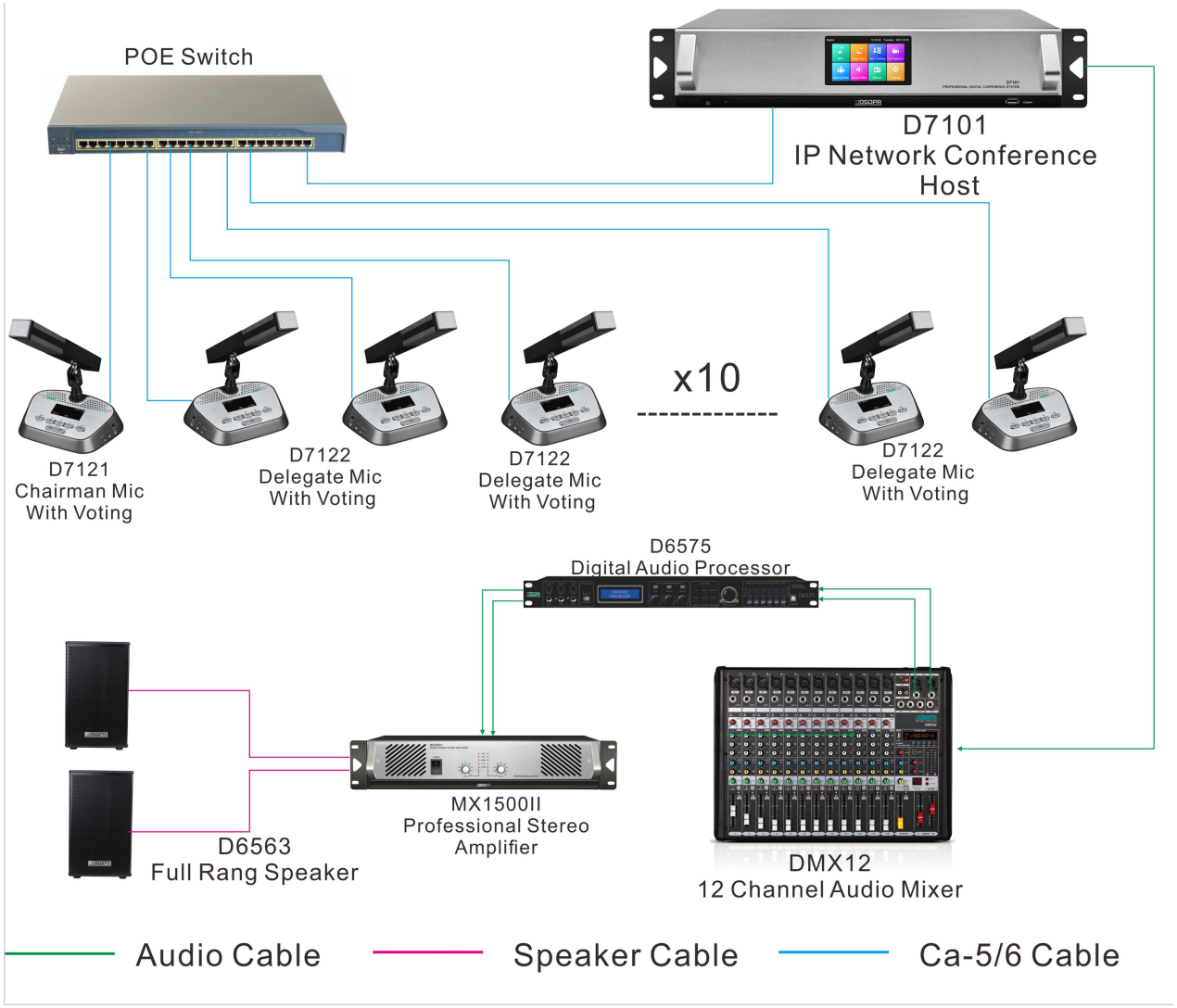
DSPPA Conference Systems

2 System Diagram

Network Conference System Diagram

Small Conference Room (10 People)

Connected with a CAT5 or CAT6 network cable



Small Conference Room System:

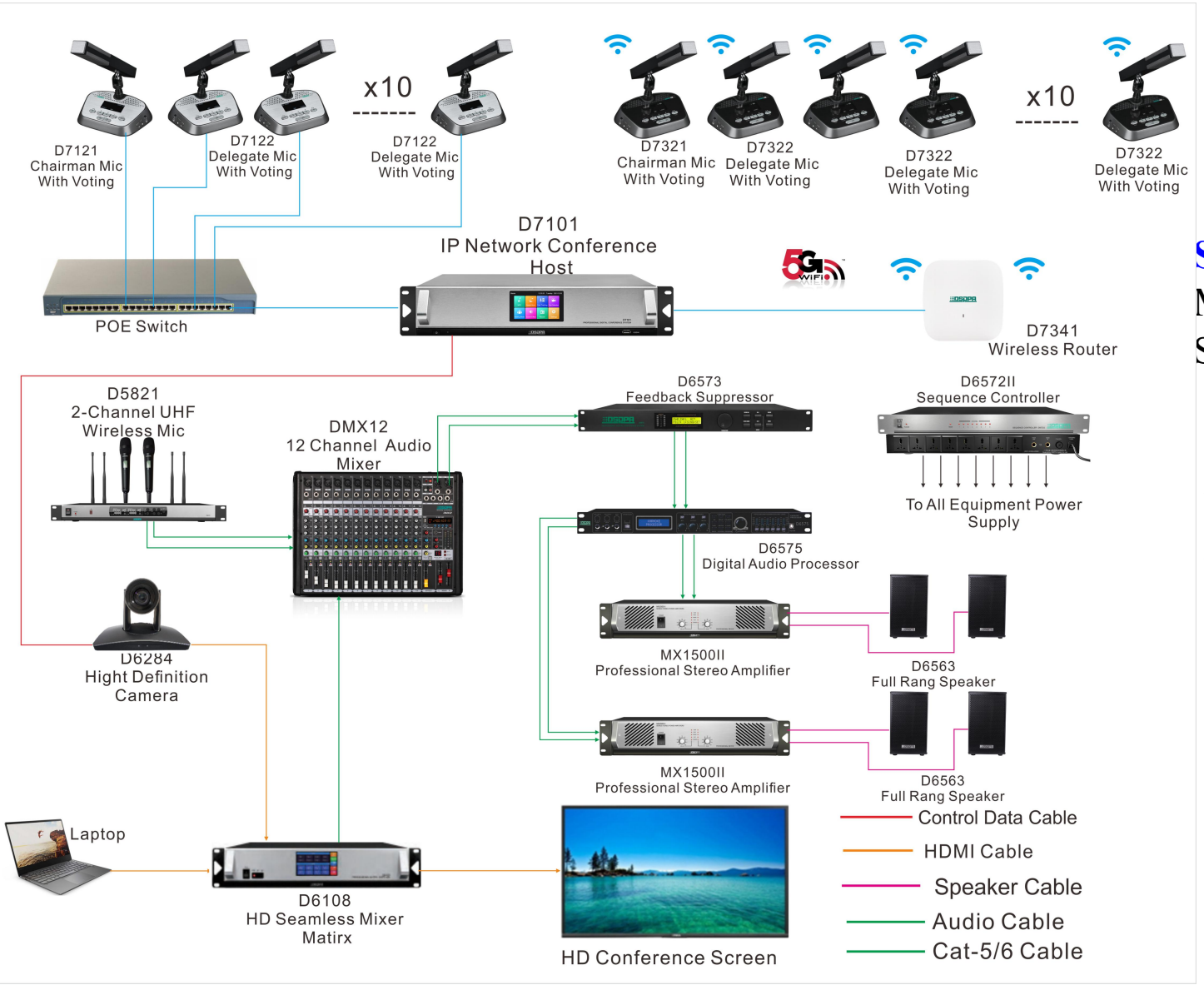
Conference System + Professional Sound Reinforcement System

Model	Name	QTY
D7101	IP Network Conference System Host	1
D7121	Desktop Chairman Microphone with Voting Function	1
D7122	Desktop Delegate Microphone with Voting Function	10
	POE Switch	1
DMX12	12-channel Audio Mixer	1
D6575	Digital Audio Processor	1
MX1500II	Professional Stereo Amplifier (8Ω; 2x230W)	1
D6563	8" 150W Professional Two-way Cabinet Speaker	2
D3A	Wall Mount Bracket	2
MP15U	15U 19" Rack with Door and Fan	1

Network Conference System Diagram

Large and Medium-sized Conference Room (20 people)

Hybrid connection: Use a CAT5 or CAT6 cable for wired conference mics and 5G WiFi for wireless conference mics



System Component: IP Conference System + Video Matrix System + Professional Sound Reinforcement System

System Functions: With automatic camera tracking, video switching function, Voting, Sign-in.

Applications: Meeting report, PPT display, training, etc.

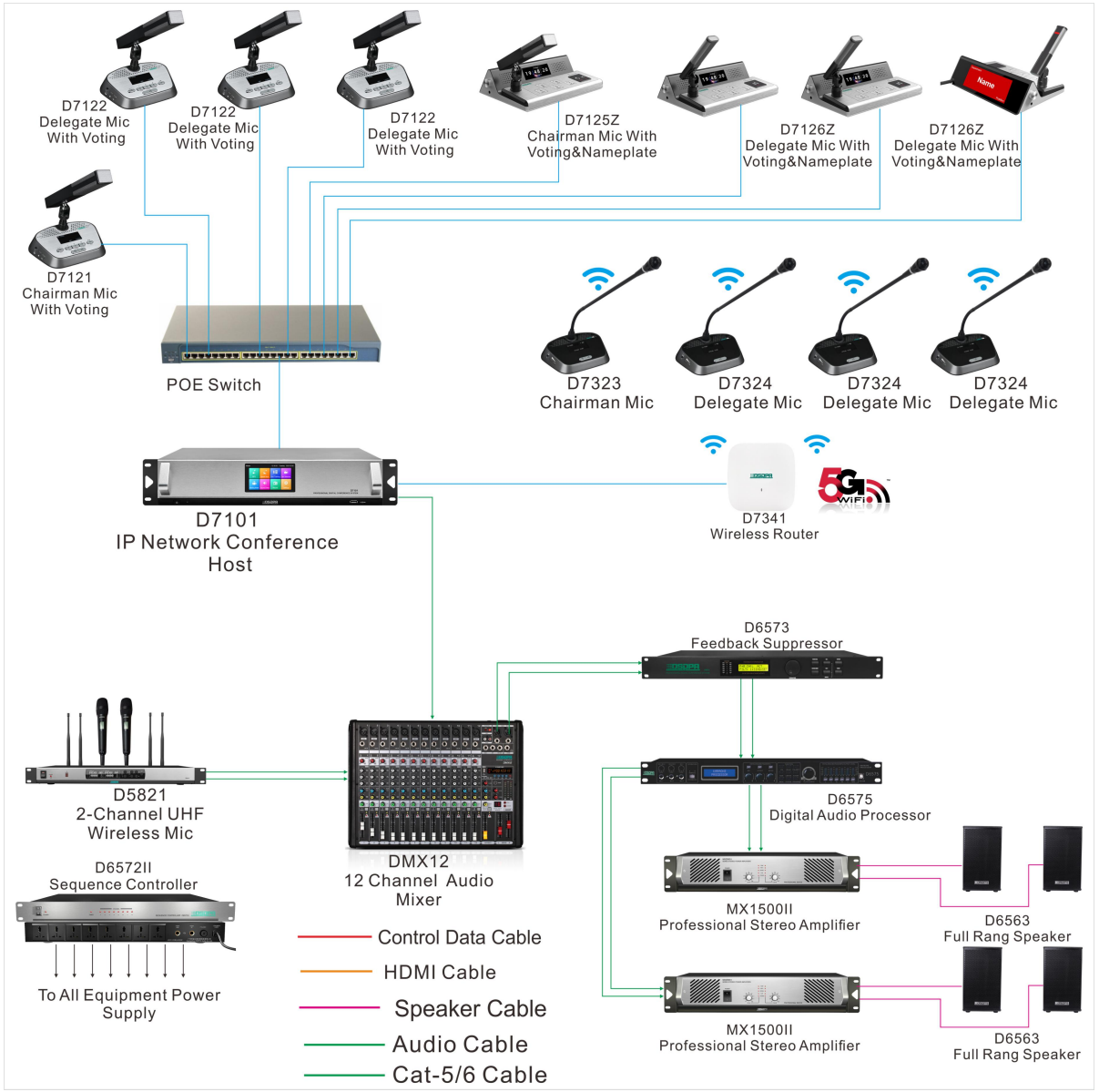
Network Conference System Diagram

Model	Name	QTY
D7101	IP Network Conference System Host	1
D7121	Desktop Chairman Microphone with Voting Function	1
D7122	Desktop Delegate Microphone with Voting Function	10
D7321	5G WiFi Chairman Microphone with Voting Function	1
D7322	5G WiFi Delegate Microphone with Voting Function	10
D7341	5G WiFi Wireless Router	1
	POE Switch	1
D6284	Hight Definition Camera	1
D6108	8 Channel HD Seamless Mixed Matrix Host Box	1
D6104HR	4 Channel Digital HD Audio & Video Input Card	1
D6104HC	4 Channel Digital HD Audio & Video Output Card	1
D5821	UHF Wireless Microphone System	1

Model	Name	QTY
DMX12	12-channel Audio Mixer	1
D6573	Feedback Suppressor	1
D6575	Digital Audio Processor	1
MX1500II	Professional Stereo Amplifier (8Ω; 2x230W)	2
D6563	8" 150W Professional Two-way Cabinet Speaker	4
D3A	Wall Mount Bracket	4
D6572II	8-channel Power Supply Sequency Controller	1
MP30U	30U 19" Rack with Door and Fan	1

Network Conference System Diagram

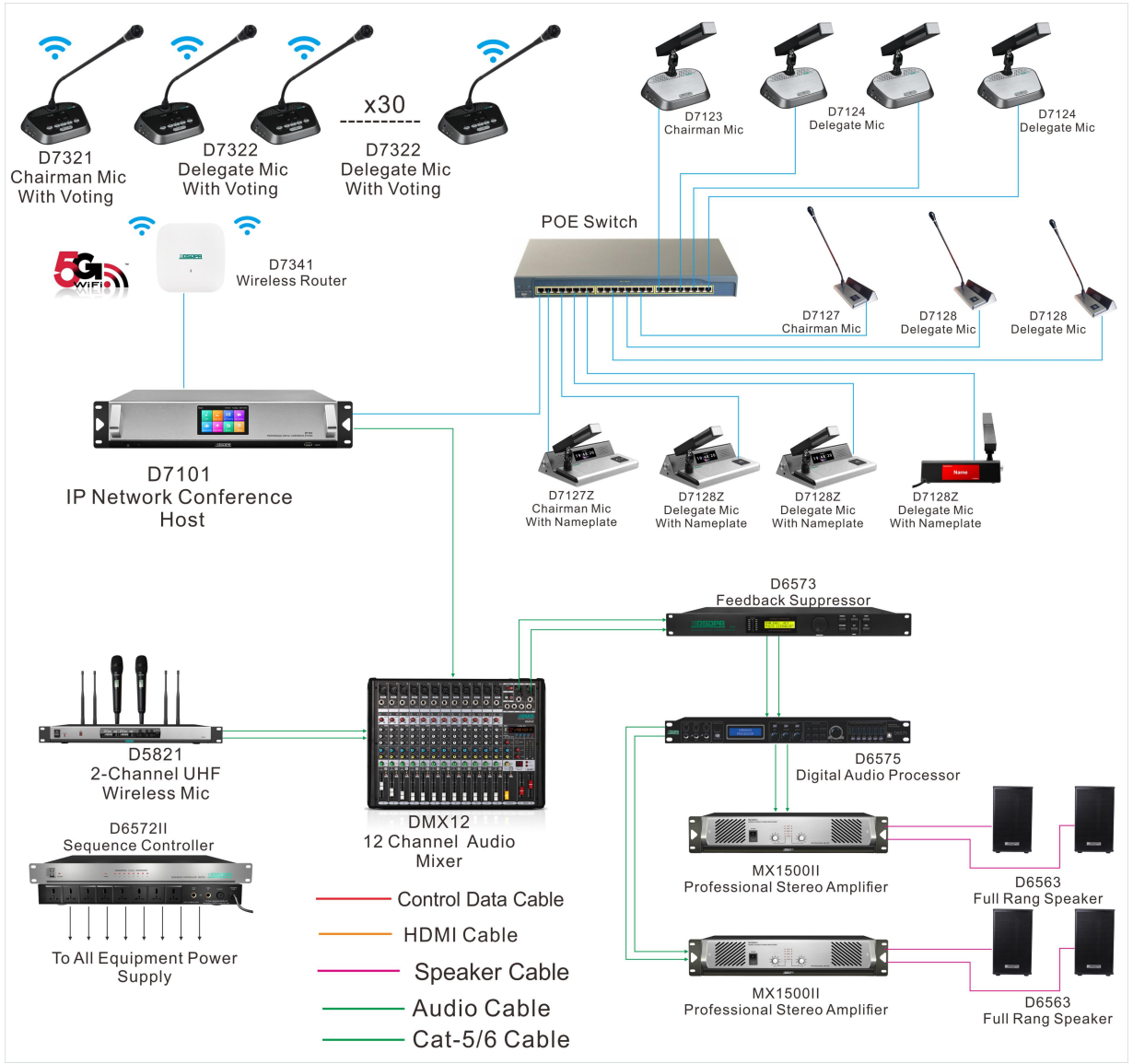
Various types of conference mics connection



Model	Name	QTY
D7101	IP Network Conference System Host	1
D7121	Desktop Chairman Microphone with Voting Function	1
D7122	Desktop Delegate Microphone with Voting Function	3
D7323	5G WiFi Chairman Microphone	1
D7324	5G WiFi Delegate Microphone	3
D7341	5G WiFi Wireless Router	1
	POE Switch	1
D7125Z	Desktop Network Conference Chairman Mic with Voting Function & Nameplate	1
D7126Z	Desktop Network Conference Delegate Mic with Voting Function & Nameplate	3
DMX12	12-channel Audio Mixer	1
D6573	Feedback Suppressor	1
D6575	Digital Audio Processor	1
MX1500II	Professional Stereo Amplifier (8Ω; 2x230W)	2
D6563	8" 150W Professional Two-way Cabinet Speaker	4
D3A	Wall Mount Bracket	3
D6572II	8 Channel Power Supply Sequency Controller	3
MP15U	15U 19" Rack with Door and Fan	1

Network Conference System Diagram

Various types of conference mics connection



Model	Name	QTY
D7101	IP Network Conference System Host	1
D7127Z	Network Conference Chairman Mic with Nameplate	1
D7128Z	Network Conference Delegate Mic with Nameplate	3
D7127	Desktop Network Conference Chairman Mic	1
D7128	Desktop Network Conference Delegate Mic	2
D7123	Desktop Network Conference Chairman Mic	1
D7124	Desktop Network Conference Delegate Mic	3
D7321	5G WiFi Conference Chairman Microphone with Voting	1
D7322	5G WiFi Conference Delegate Microphone with Voting	30
D7341	5G WiFi Wireless Router	1
	POE Switch	1
DMX12	12-channel Audio Mixer	1
D6573	Feedback Suppressor	1
D6575	Digital Audio Processor	1
MX1500II	Professional Stereo Amplifier (8Ω; 2x230W)	2
D6563	8" 150W Professional Two-way Cabinet Speaker	4
D3A	Wall Mount Bracket	3
D6572II	8 Channel Power Supply Sequency Controller	3
MP15U	15U 19" Rack with Door and Fan	1

Network Conference System Highlight Functions

With DSP digital audio processing technology, low frequency cut and equilizer

Built-in high-performance ARM processor, high fidelity, high SNR ratio

Five speech modes; conference check-in; voting; speech timing and reminder countdown

Chairman unit has the priority

Integrated automatic camera tracking and self-detection

20-30cm ultra-long pickup distance, support internal two-way communication

Support 6 units
Single capacity to be 128 units
Expansion to 4096 units

Hotback Function, Conference recording function

Various microphone available, e.g, Mic with table card

Support PC/Smartpho ne control

Network Conference System Highlight Functions

■ Conference speech discussion, sign-in, and voting functions

The chairman mic has priority to speak, and supports 4 conference speaking modes: first-in first-out mode, normal mode, free mode and application mode. The participant can vote through the conference mic with voting function.

■ System recording and camera tracking

Insert a USB flash disk into the host D7101 to record the whole conference audio for easy archiving.
Connected with the digital conference system to achieve camera tracking, which can provide close-up of the speakers.

■ Support TCP/IP protocol, RJ45 interface for wired connection and 5G WiFi for encrypted wireless connection.

The system can be connected to a PoE network switch to expand up to 4096 wired conference mics, while the wireless mic adopts 128-bit AES encryption technology to expand up to 300 wireless conference mics through the 5G WiFi encrypting router.

■ With hot backup function for the host

Set one conference host as the host, and the other conference host as the backup machine (slave), and connect them to the system. When the host fails, the slave will be automatically enabled.

■ Internal two-way call

The system has an internal call function, which can realize two-way communication among the chairman, delegate, interpreter and operator (only for wired mcs with 5″ condenser touch LCD screen).

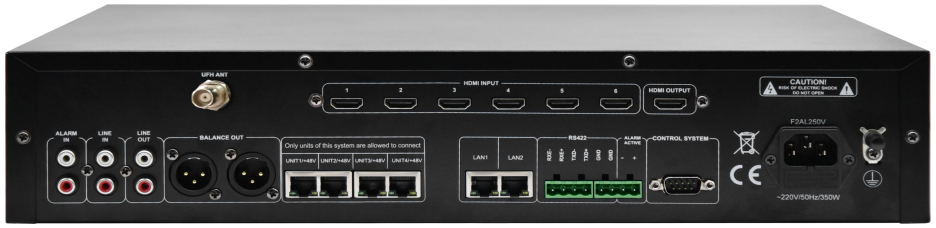
■ Video Seamless Switch System D6108

The D6108 video matrix system can switch any camera video signals and video conference terminal signals to the corresponding display terminals as needed to ensure the orderly progress of the conference. It adopts a matrix signal switcher seamless switching of various video signal sources to achieve lossless signal transmission.

DSPPA Conference Systems

3 Product Features

D7101 Network Conference System Host



Features:

- Distributed conference system, network protocol transmission (PCS Stream).
- Integrated with translation, discussion, sign-in, vote, electronic nameplate and other functions.
- Support up to 4096 conference microphones.
- With a 4.3-inch resistance screen for the host.
- With 5 speech modes: FIFO, NORMAL, VOICE, FREE, APPLY. Support up to 6 mics at the same time.
- Can edit the participant information for mics.
- With the main and standby switching function for the host.
- Can be connected with 5G WiFi for wireless conference system.
- Support remote program upgrading.

Note: Host Installation Precautions

1. The host D7101 can connect the wired conference mic and the 5G WiFi wireless conference mic at the same time.

2. The number of wired conference mics can be expanded to 4096, and the number of wireless conference mics can be expanded to 300.

3. The D7101 series is connected to the conference mic through a PoE network switch. Each conference mic is equipped with a 2M professional network cable and an RJ45 connector.

D7121 Desktop Network Conference Chairman Mic with Voting
D7122 Desktop Network Conference Delegate Mic with Voting

D7121 Chairman MIC

D7122 Delegate MIC

Gooseneck Rod

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.42-inch OLED screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in LCD screen to display information, such as MIC ID, voting result, sign-in number, etc.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**

D7123 Desktop Network Conference Chairman Mic
D7124 Desktop Network Conference Delegate Mic

D7123 Chairman MIC

D7124 Delegate MIC

Gooseneck Rod

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.42-inch OLED screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in LCD screen to display information, such as MIC ID.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**

D7125 Desktop Network Conference Chairman Mic with Voting
D7126 Desktop Network Conference Delegate Mic with Voting

D7125 Chairman MIC

D7126 Delegate MIC

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.9-inch LCD screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**
- With built-in LCD screen to display information, such as MIC ID, voting result, sign-in number, etc.

D7127 Desktop Network Conference Chairman Mic
D7128 Desktop Network Conference Delegate Mic

D7127 Chairman MIC

D7128 Delegate MIC

Gooseneck Rod

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.9-inch LCD screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in LCD screen to display information, such as MIC ID.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**

D7125Z Desktop Network Conference Chairman Mic with Voting & Nameplate
D7126Z Desktop Network Conference Delegate Mic with Voting & Nameplate

D7125Z Chairman MIC

D7126Z Delegate MIC

Nameplate

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.9-inch LCD screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in LCD screen to display information, such as MIC ID, voting result, sign-in number, etc.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**
- With 3.9-inch LCD nameplate.
- Can edit the participant information and background.

D7127Z Desktop Network Conference Chairman Mic with Nameplate
D7128Z Desktop Network Conference Delegate Mic with Nameplate

D7127Z Chairman MIC

D7128Z Delegate MIC

Nameplate

Features:

- Adopt the network protocol transmission, without compression.
- Powered by POE Switch (Phantom +48V).
- With a 2.9-inch LCD screen display.
- With audio output interface and volume adjustment.
- Connected via a network (Cat-5/6) cable.
- With priority function for the chairman mic.
- With built-in LCD screen to display information, such as MIC ID.
- With built-in 1.5W speaker unit.
- With 3.5mm headphone jack.
- **With 2m Cat-5/6 cable with a RJ45 jack connector.**
- With 3.9-inch LCD nameplate.
- Can edit the participant information and background.

D6284 High Definition Camera

Features:

- 2.14 megapixel; 1/2.8 inch CMOS sensor.
- Support H.265 and H.264 network video encoding.
- Support full HD 1080P60 video output.
- Support 3G-SDI and HDMI HD video output. 20x optical zoom, maximum wide angle 59.5° ; 12x optical zoom, maximum wide angle 72.5° .
- Support dual stream, and support multi-level video quality configuration.
- Support 1-channel audio input and 1-channel audio output.
- Support MAX. 64G TF card for local storage.
- Precise driving system, with accurate positioning and stable operation.
- Support multiple protocols and control interfaces, support daisy-chain networking.
- With a multi-functional IR remote controller.
- With built-in Chinese&English operation menu.
- With smart AE technology to effectively avoid the interference of complicated lights from projectors, TVs, etc.
- Support desktop/ceiling/wall mount installation.

Conference MIC Rod

D626C: Length=415mm
Black

Features:

- Used in the Mic units of D62 Series.
- Intelligent Conference System.
- Cardioid condenser microphone .
- High density 5-pin interface.
- Two-color (red/green) indicator.
- Length: 415mm.

D7286 Square MIC Rod

Length=186mm

- Cardioid directivity condenser microphone.
- High-desity 5-pin aviation interface.
- With two-color (red/green) opening and working indicator.
- Length: 186mm.
- If there is no special requirement, D7286 is provided.

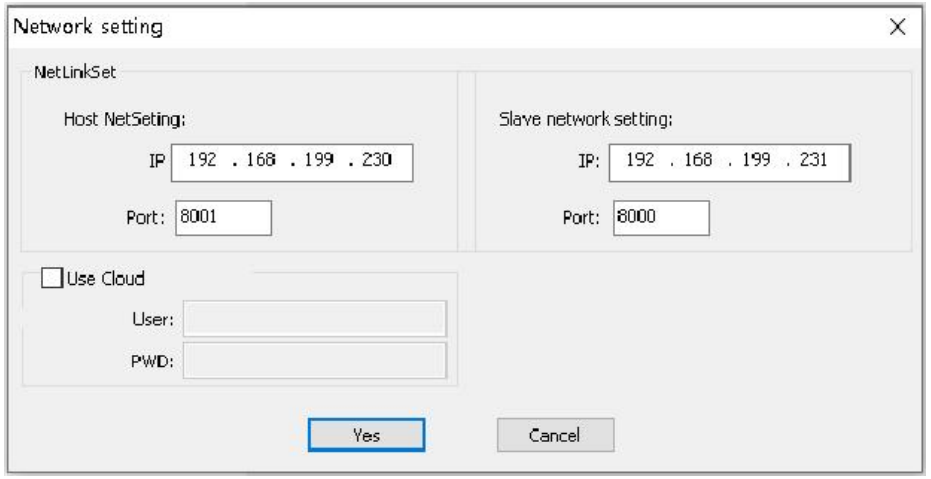
DSPPA Conference Systems

4 Conference Management Software Introduction

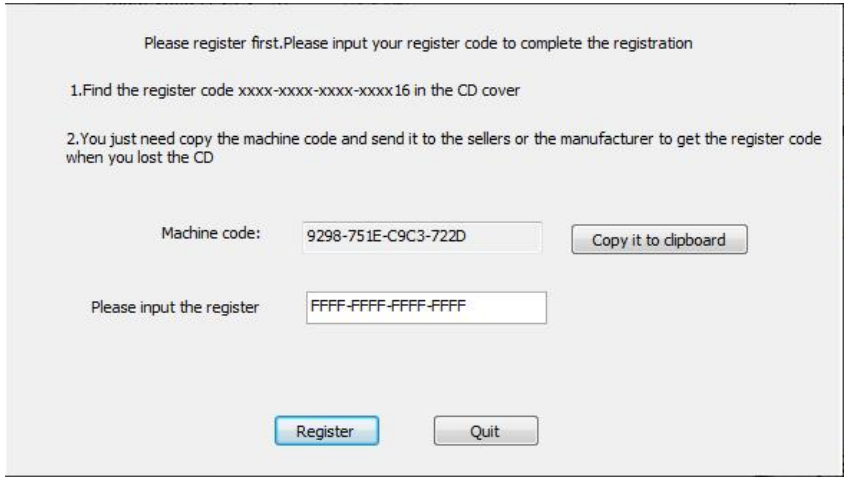
D7100 Conference Management Software

The supporting conference management software of the full digital IP conference system is full-featured. After the computer running this management software is connected to the full digital conference system through a network cable, all information of the conference system can be displayed on the interface of the management software, where you can set the information for the conference, such as mic settings, voting, voting statistics, etc. Generally speaking, the venue management personnel can fully control and manage the venue through this control software.

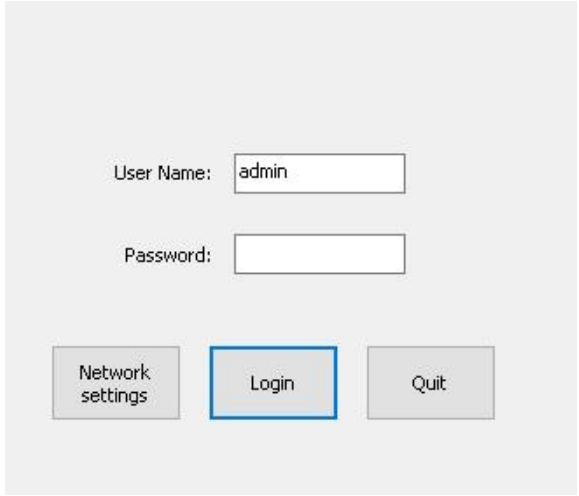
After installing the software, you are required to do the following steps: 1. Set the network first for host connection. 2. Register. 3. Login. As shown below:



1. Set the network first for host connection.



2. Register

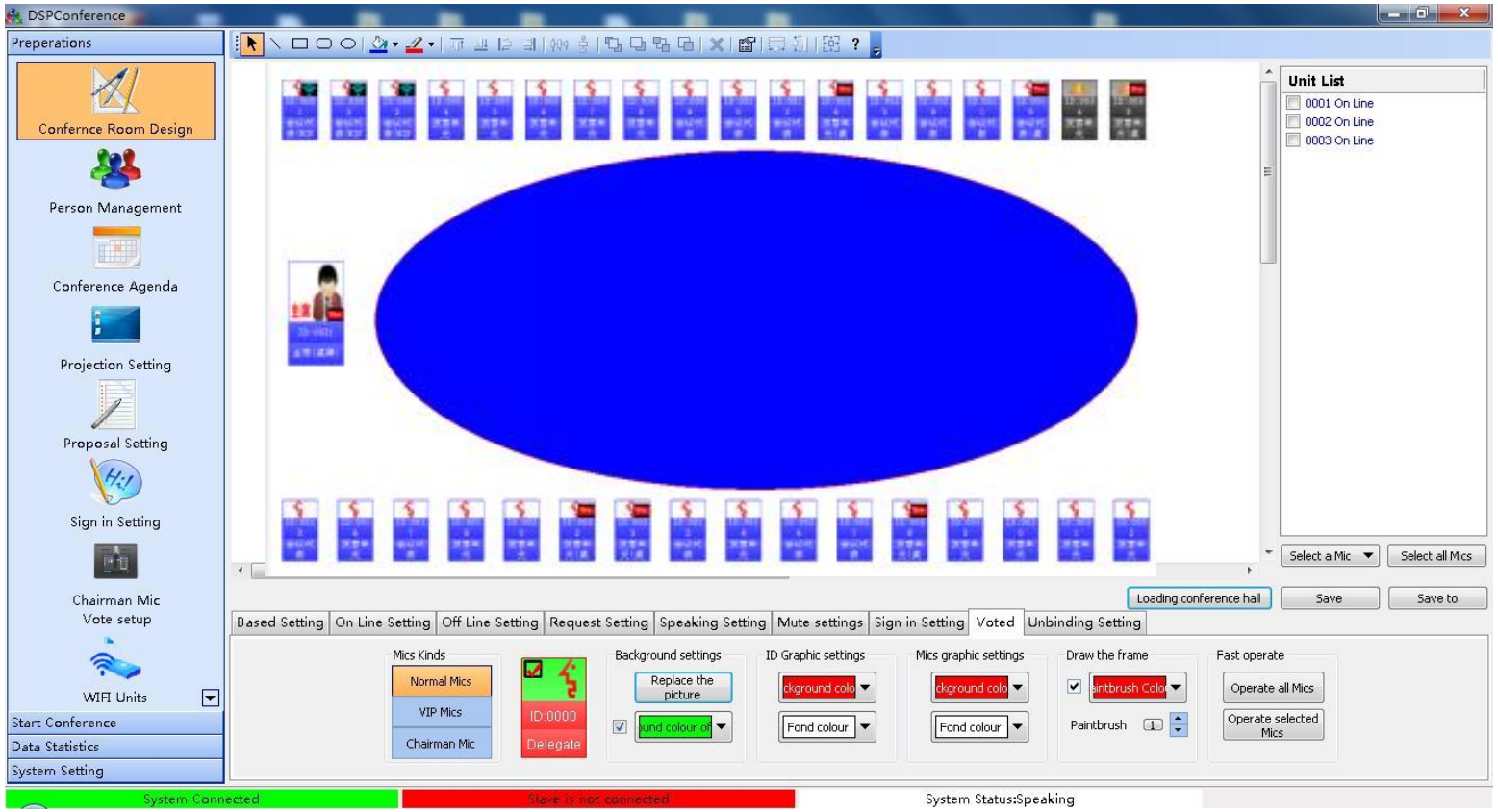


3. Login

The default user name is admin, and the password is 123456.

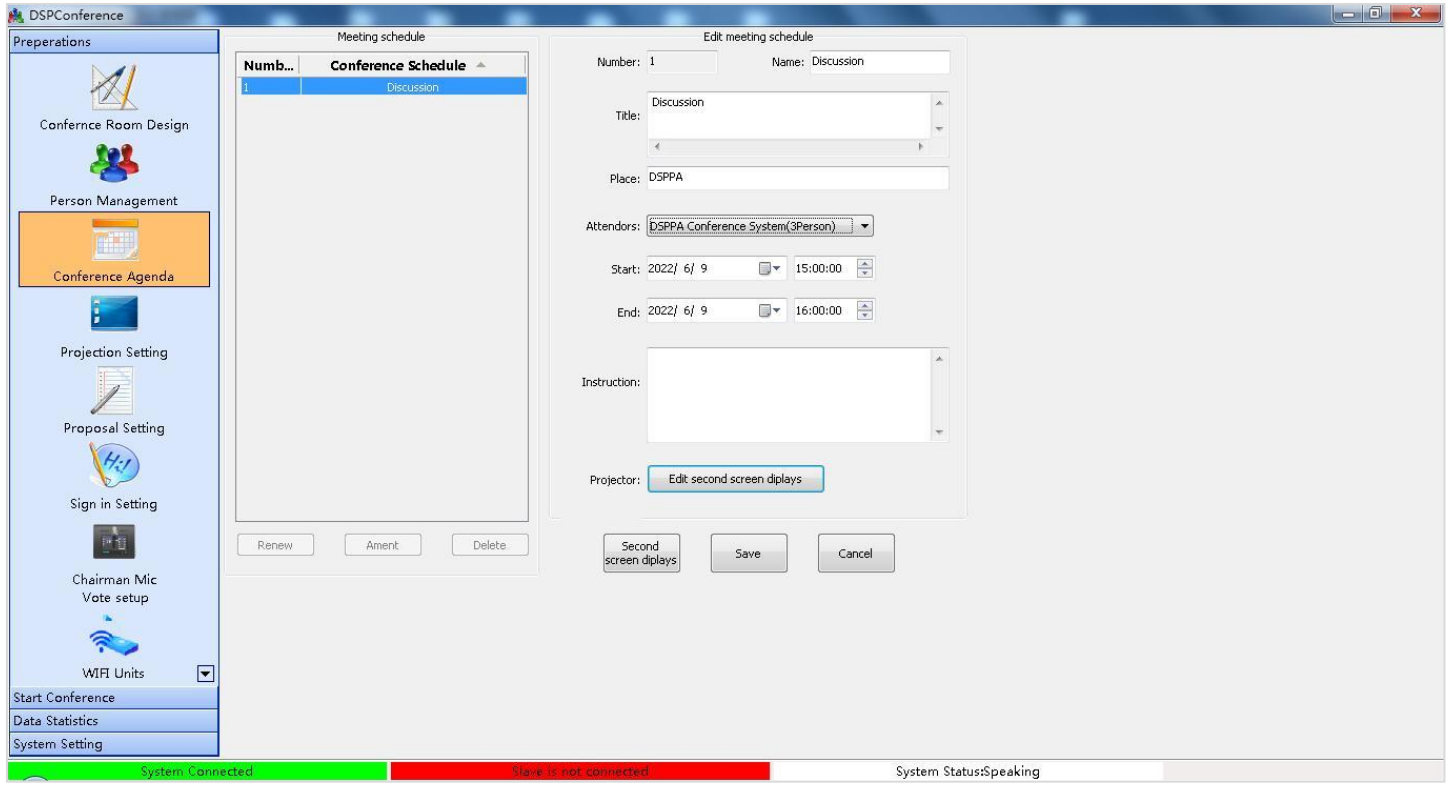
D7100 Conference Management Software

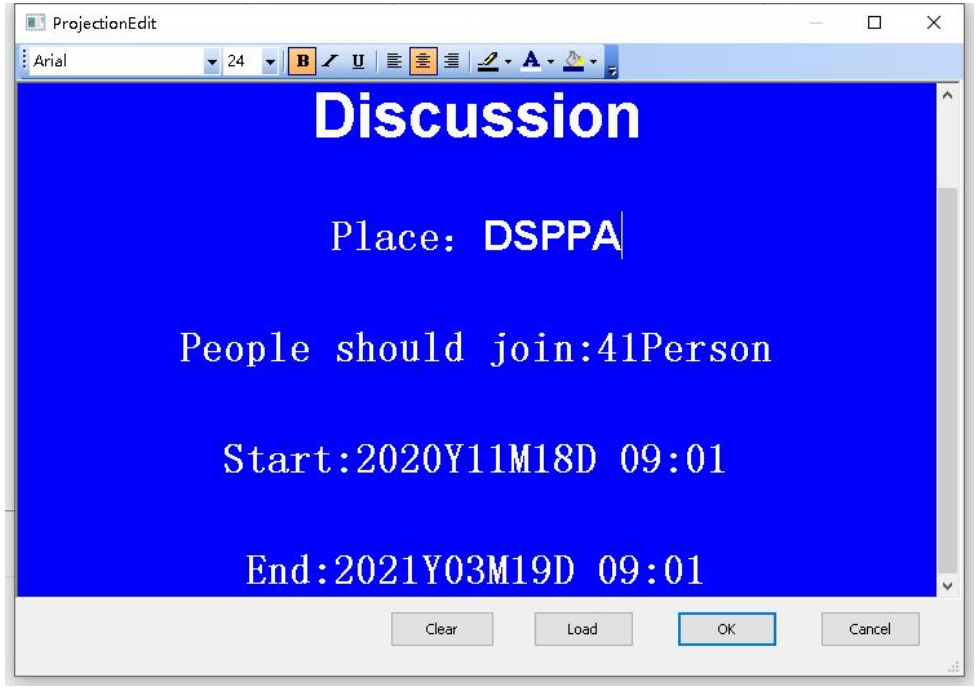
After successful login, you will enter the interface as shown below.
As the basic setting module, the Preparations includes Conference Room Design, Person Management, Conference Agenda, Proposal Setting, Sign-in Setting and Chairman Mic Vote Setup and other functions. The settings of the Preparations module must be completed before the meeting starts.



D7100 Conference Management Software

Conference Agenda belongs to the category of meeting information management, including the agenda setting before a meeting and the information storage management after a meeting. The contents that need to be set in the Conference Agenda include conference name, conference title, conference venue, participants (select the local or cloud personnel plan), conference start time and end time, brief introduction to the conference, etc.

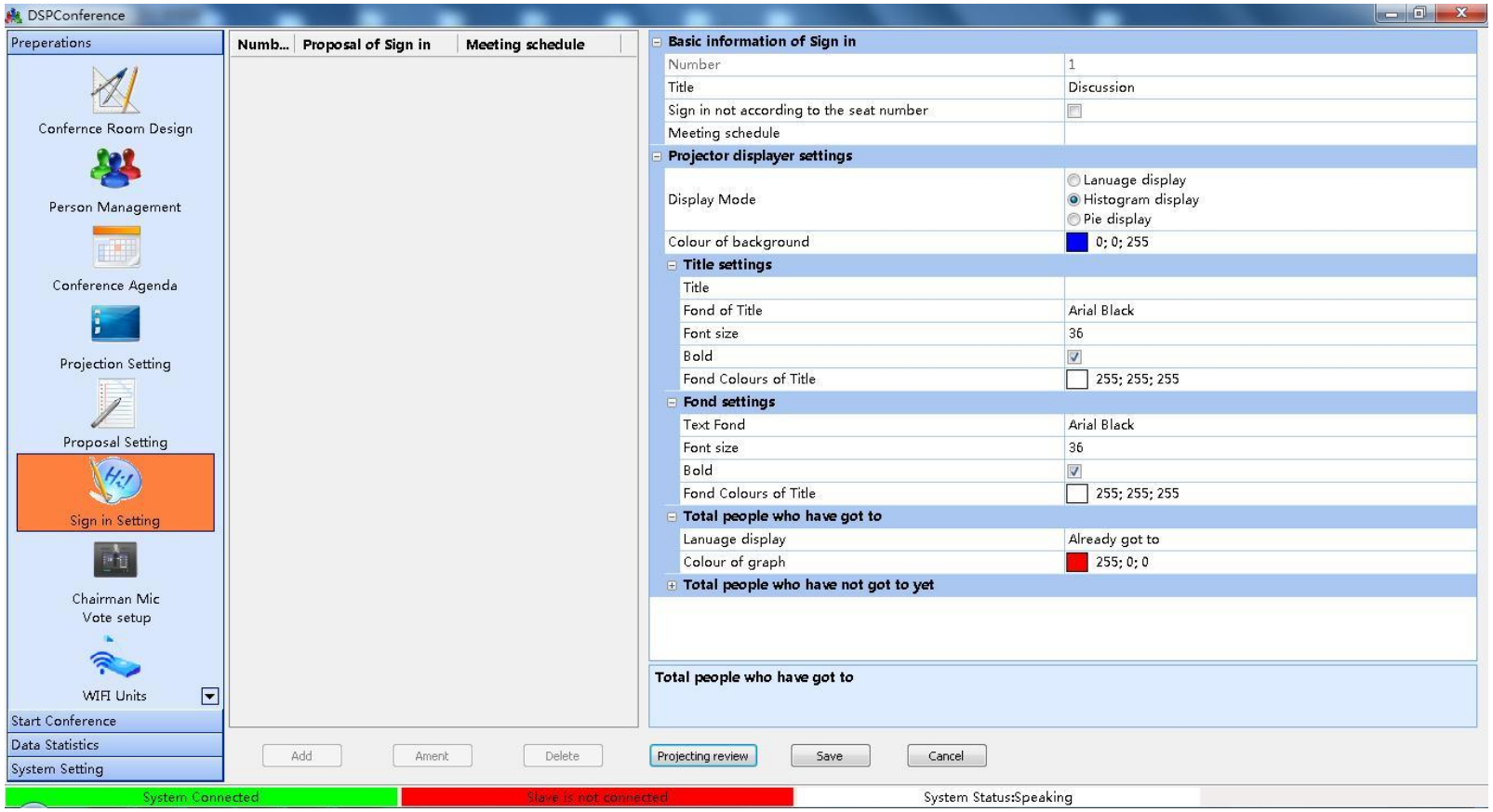




D7100 Conference Management Software

Sign-in settings:

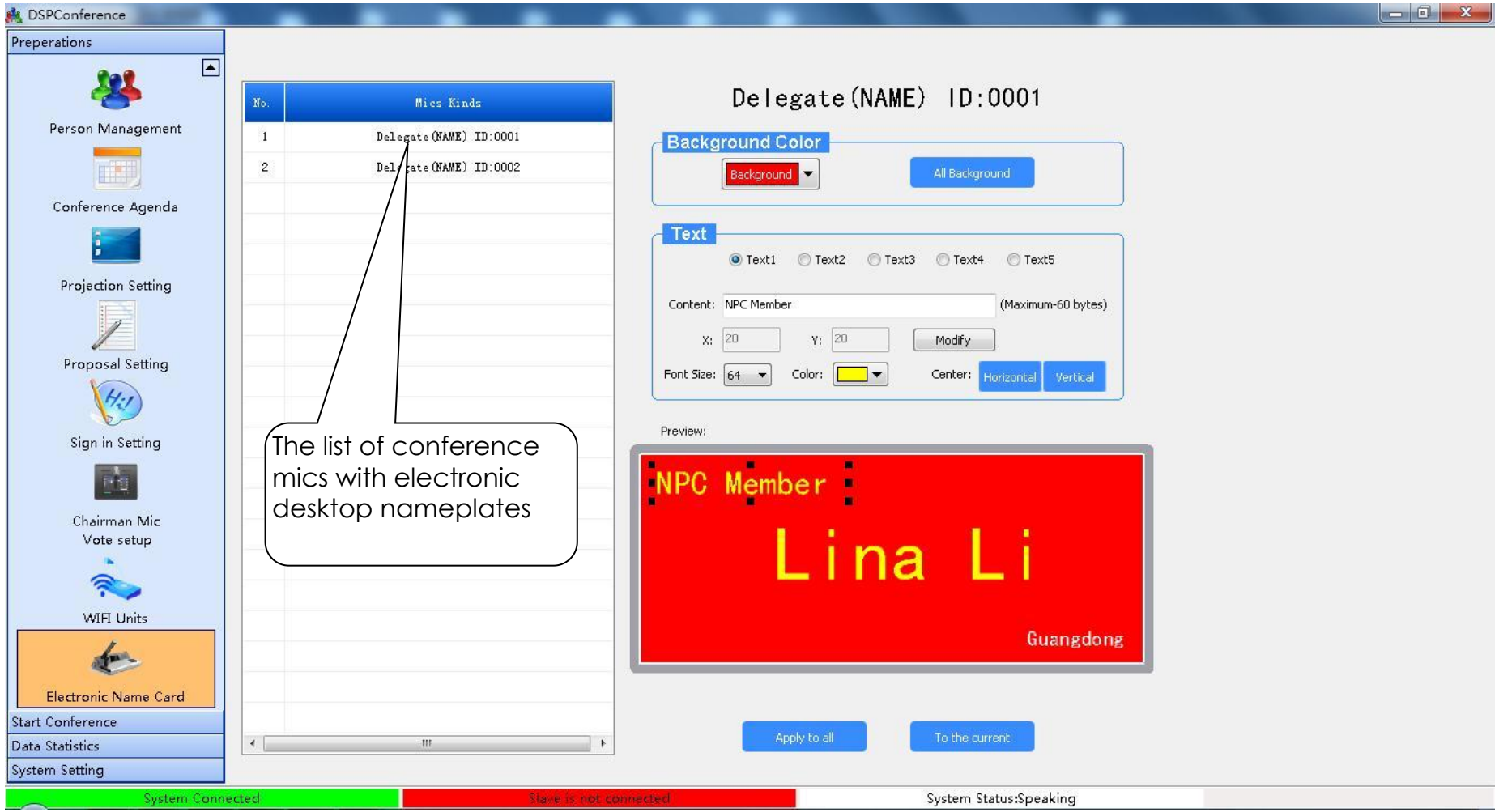
The sign-in function is designed to count the attendance of attendees. Complete the basic information required for the sign-in function before the meeting starts. After the meeting starts, click the “Start Sign-in” button on the “Sign-in Settings” interface to start the sign-in.



D7100 Conference Management Software

Electronic Desktop Nameplate Setting:

The PC software can set the display content of the electronic desktop nameplate of the conference mic. Select the mic in the list of conference mics with electronic desktop nameplates as shown in the figure below, and then set the background color and text displayed on the mic, edit the corresponding text information, resolution, and layout, and finally click the button “Apply to all” to update and apply to the conference mics with electronic desktop nameplates.



DSPPA, Never Stop!