



**D88 Series Pro Audio Processor
+ DSP3130 Conference Column
Speaker Solution for
Medium-sized Report Hall**

Solution Overview

- The report hall, as a venue for hosting academic reports, conferences, and large lectures, has strict requirements for sound clarity, uniformity, and stability. To ensure that all audiences in the report hall can receive audio signals clearly and comfortably, an efficient sound amplification system is needed. This system should have good sound quality, coverage area, anti-interference capability, and ease of operation to ensure the smooth progress of the events.

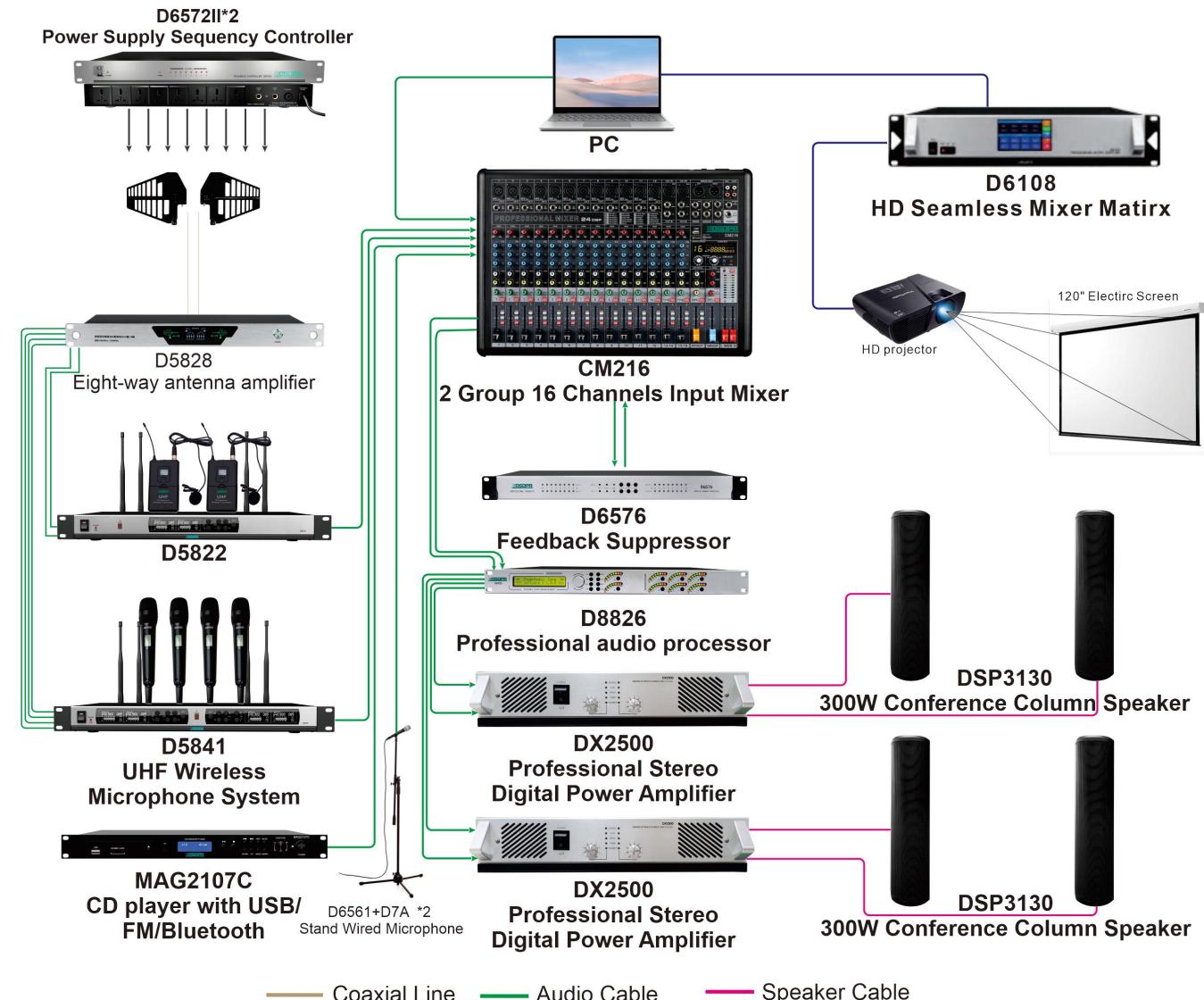


Project Requirements

- **Uniform Coverage:** Ensuring that no matter where the audience is seated in the auditorium, they can clearly hear the content of the speech.
- **Voice Clarity:** Voice transmission must be clear, avoiding excessive low frequencies that can cause sound to be unclear, especially in the balance control between high and low frequencies.
- **Anti-interference Capability:** Avoid electromagnetic interference from wireless devices and the surrounding environment to ensure stable signals.
- **Ease of Operation:** The system should be easy to operate and maintain, ensuring that staff can efficiently manage equipment and handle emergencies.

Pro Sound Solution for 300m² Medium-sized Report Hall

No.	Model	Product Name	Quantity
1	D5828	8 Channels Outdoor Antenna Signal Amplification	1
2	D5822	UHF Wireless Microphone System	1
3	D6561	Wired Microphone	2
4	D7A	Microphone Stand	2
5	D5841	UHF Wireless Microphone System	1
6	MAG2107C	CD Player with USB/FM/Bluetooth	1
7	CM216	2 Group 16 Channels Input Mixer	1
8	D6576	Feedback Suppressor	1
9	D8826	Professional Audio Processor	1
10	DX2500	Professional Stereo Digital Power Amplifier	2
11	DSP3130	300W Conference Column Speaker	4
12	D6572II	Power Supply Sequence Controller	2
13	D6108	HD Seamless Mixer Matirx	1
Auxiliary Device			
1	PC	PC	1
2	HD Projector	HD Projector	1



Note: This solution is for reference only; please contact us for specific requirements.

Solution Configuration

System Configuration

Basic Parameters of the Report Hall: 20m*15m=300m², ceiling height 4.5m (about 150-200 people);

Function Needs: Multimedia presentations (PPT/video playback), academic reports, small performances, etc.

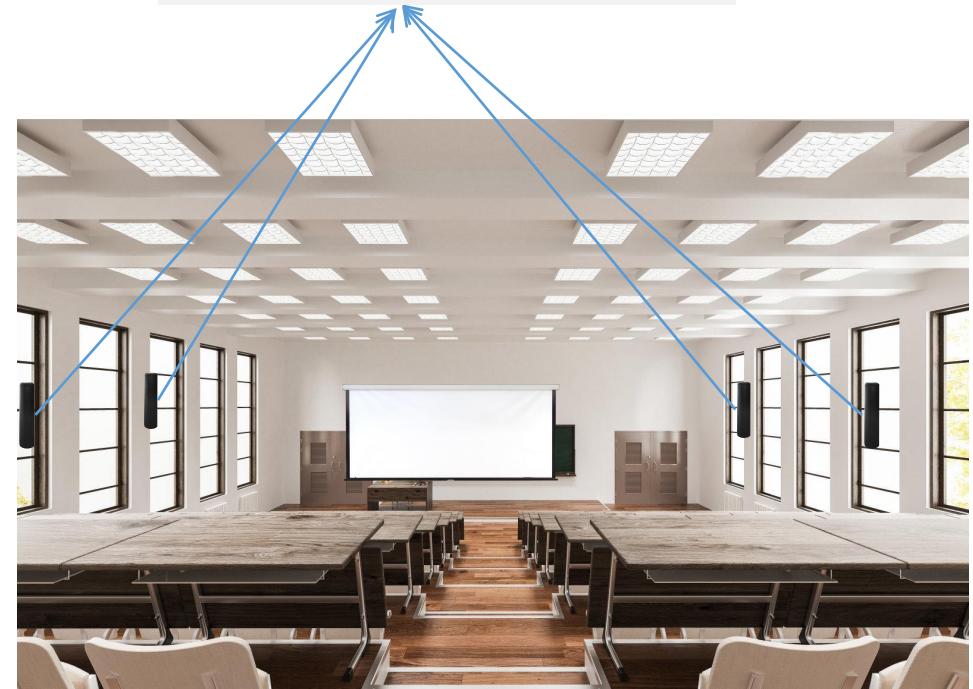
System Configuration:

- **Video Display:** A 200-inch projection screen is used as a display device to ensure that all attendees can clearly see the conference content.
- **Pick up:** We have selected true diversity wireless handheld microphones, lapel microphones, and wired condenser speech microphones to ensure the necessary requirements for speeches and leadership talks. In addition, to ensure that the wireless signal does not experience dropouts or interference, we have also equipped an antenna amplification system.
- **Regulatory Part:** Digital mixing consoles and digital audio processors were selected to control the entire system. The D8826 audio processor, with its high-fidelity sound quality, powerful DSP capabilities, and flexible input and output configurations, can provide clear, stable, and precise audio processing for the report hall, ensuring the best sound effects for various events.
- **Pro Sound:** Pro Sound Speaker adopts DSP3130, Featuring a 50×90mm racetrack-shaped (equivalent to 2.5") paper cone woofer and a 1"tweeter, It provides a natural and balanced tone, ensuring clear and distortion-free sound quality, suitable for clearly conveying speech and audio in report halls. Its streamlined metal grille perfectly blends with the cabinet, featuring a modern and elegant appearance that enhances the overall decor of the report hall. This speaker, with its high sensitivity, low distortion, excellent frequency reproduction, and durable design, can offer clear and balanced sound quality along with a modern and aesthetically pleasing appearance for report halls.

System Advantages:

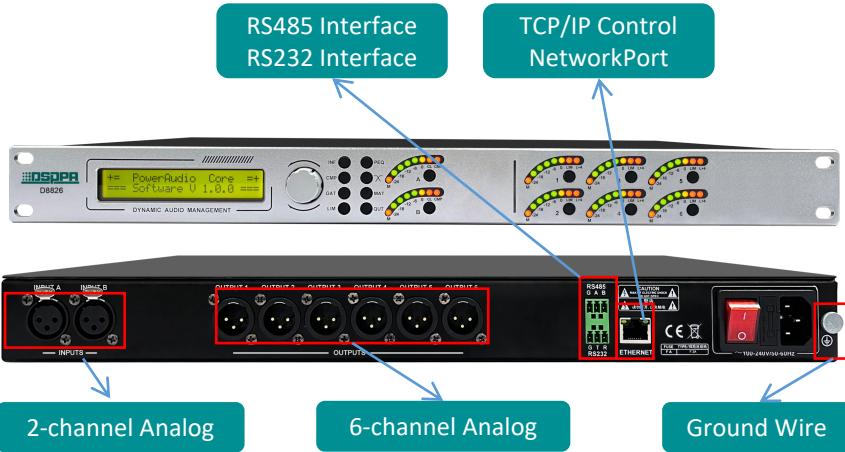
- Sound Field Uniformity: 4 DSP3130s cover 300m² (maximum sound pressure level 122.7dB);
- Voice Clarity: 9-band input PEQ for the processor suppresses feedback squealing, and the noise gate eliminates air conditioning noise;
- Expanded Flexibility: The D8826 supports 20 scene presets, allowing one-click switching between conference and cinema modes.
- Safety Protection: Output channel limiter to prevent overload damage to the speaker (threshold set at -3dB).

4 DSP3130 cover the entire Report Hall



Audio Amplification Layout Schematic of the Report Hall

D88 Series Professional Audio Processor



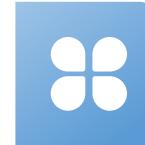
Model	Input	Output
D8826	2*XLR	6*XLR
D8836	3*XLR	6*XLR
D8848	4*XLR	8*XLR

Fully balanced simulation interface RS232/RS485/TCP/IP control



Scene Preset Memory

20 sets of scene preset memories, switch with one click, meeting the quick configuration needs for different scenes.



Real-time Level Meter Monitoring

Monitor audio levels in real-time to ensure audio signal stability, avoiding distortion and overload.



Parameter Lock Protection

Parameter locking protection system to prevent misoperation and ensure stable operation of the equipment.



1U Rack Space Optimization

1U rack design saves space, facilitates installation and maintenance, and enhances equipment integration.

Professional Conference Column Speaker



DSP3105/DSP3110/DSP3115/DSP3120/DSP3130
50W/100W/150W/200W/300W

Model	Drive Unit	Power	Sensitivity	Max. SPL	Size (mm)	Weight (Kg)
D3105	FR:2.5"x2 HF:1"x1	50W	88dB	104.9dB	332*75*110	1.92
D3110	FR:2.5"x4 HF:1"x1	100W	90dB	110dB	528*75*110	3.2
D3115	FR:2.5"x6 HF:1"x1	150W	92dB	113.7dB	775*75*110	4.8
D3120	FR:2.5"x8 HF:1"x1	200W	94dB	117dB	984*75*110	6.3
D3130	FR:2.5"x12 HF:1"x1	300W	98dB	122.7dB	1440*75*110	9.4

- **High Sensitivity and Low Distortion:** Using 50*90 runway-type paper cone speakers and 1-inch tweeters, it provides clear and natural sound quality with low distortion, suitable for long listening sessions without fatigue.
- **Excellent Frequency Reproduction:** The unique linear acoustic structure enhances the transmission effect of mid to high frequencies, offering stronger directionality and clearer, more balanced sound quality compared to traditional speakers.
- **Durable Aluminum Alloy Casing:** Made of high-quality aluminum alloy structure, it has stronger sealing, is durable and stable, and is not prone to noise, ensuring reliability for long-term use.
- **Aesthetic Design:** The streamlined metal mesh cover is closely integrated with the casing, giving the overall appearance a modern and elegant look, enhancing the visual effect of the space.
- **Wide Applicability:** Suitable for various places such as restaurants, tea houses, train stations, schools, etc., capable of meeting audio needs in different environments.

Note: The entire series has an impedance of 8Ω, frequency response from 120Hz to 18/20KHz.

■ Application Sites



School Auditorium



Meeting Room



Multifunctional Hall



Banquet Hall



Theater

This solution (based on D8826 +D3130, etc.) is particularly suitable for medium-sized venues that require high-definition voice clarity, uniform sound field coverage, ease of operation, and a stable and reliable audio system, such as: School Auditorium, Multifunctional Conference Rooms in enterprises, Multifunctional Halls, Hotel Banquet Halls, Theaters, etc.



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