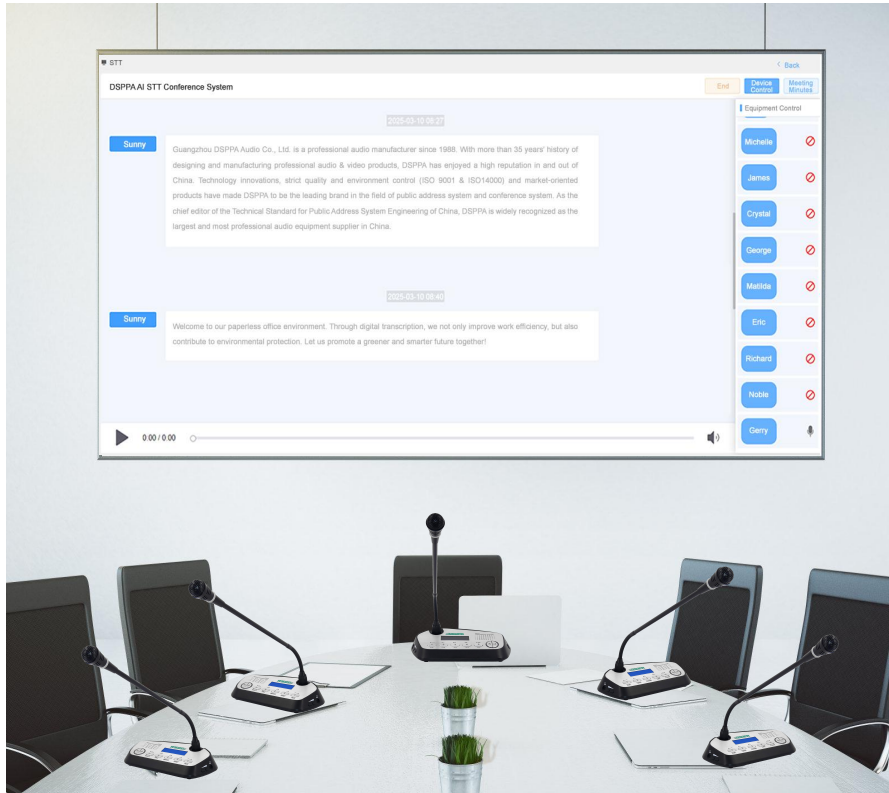




AI Speech-to-Text Conference System Solution for Meeting Room

Solution

- With the rapid development of intelligent voice technology, AI STT System has become a crucial tool for enhancing meeting efficiency. This system can convert spoken content during meetings into text in real-time, assisting participants in quickly recording key meeting points and facilitating subsequent queries and management. This solution aims to apply AI STT technology in conference room settings, leveraging intelligent speech recognition, voice analysis, and text processing technologies to deliver efficient and accurate meeting transcription services, thereby improving meeting efficiency and the convenience of content management.



Target:

- Achieve automatic transcription of voice information into text in multiple scenarios such as meeting content, voice commands, and customer service, avoiding omissions and time delays caused by manual recording.
- Reduce the use of paper documents, manage and store all information electronically to improve work efficiency and information accessibility.
- Improve the accuracy of data processing, leverage the powerful computational capabilities of AI for automatic error correction, formatting, and analysis to ensure high quality and precision of textual information.
- Enhancing the convenience of information sharing and retrieval, all transcribed content is archived through a paperless system to facilitate subsequent access, sharing, and traceability.

■ Pain Points Analysis



Pain points in traditional meeting models

- Susceptible to human factors, prone to omissions and errors
- Recording process lags, unable to synchronize in real time
- Difficulty distinguishing speakers, resulting in chaotic records
- Requires manual recording, heavy workload, and consumes human resources
- Needs manual organization and sharing, leading to significant delays
- Easily misses complex terminology or unclear accents
- Requires manual editing and organization, potentially introducing errors
- Delayed report issuance, preventing timely communication of meeting conclusions

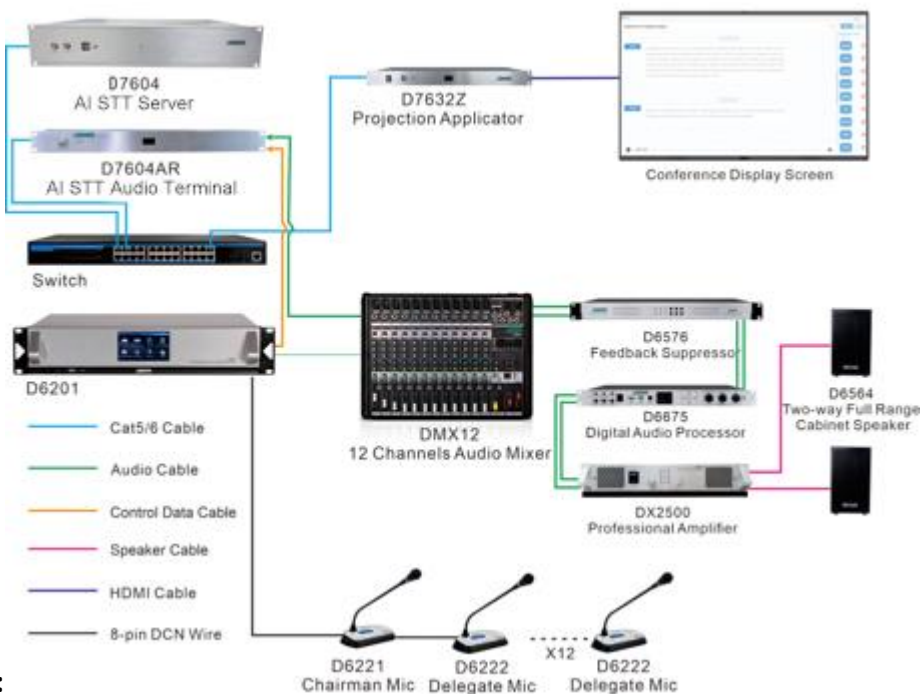
VS



Advantages of AI STT Systems

- High-precision speech recognition, accurately records speech content
- Real-time transcription, allows instant viewing during meetings
- Automatically identifies and labels content from different speakers
- Automated transcription, saves time and labor costs
- Automatic archiving and cloud sharing, enables real-time access
- Capable of handling multiple languages and complex terminology
- Automatic optimization, reduces manual editing workload
- Meeting content can be downloaded directly post-meeting for timely dissemination of conclusions
- Supports transcription in Chinese, English, French, and German languages

STT System Solution



Solution Configuration:

Meeting Room: 120-150m²

System: AI STT System+D6201 Wired Conference System+Sound reinforcement system

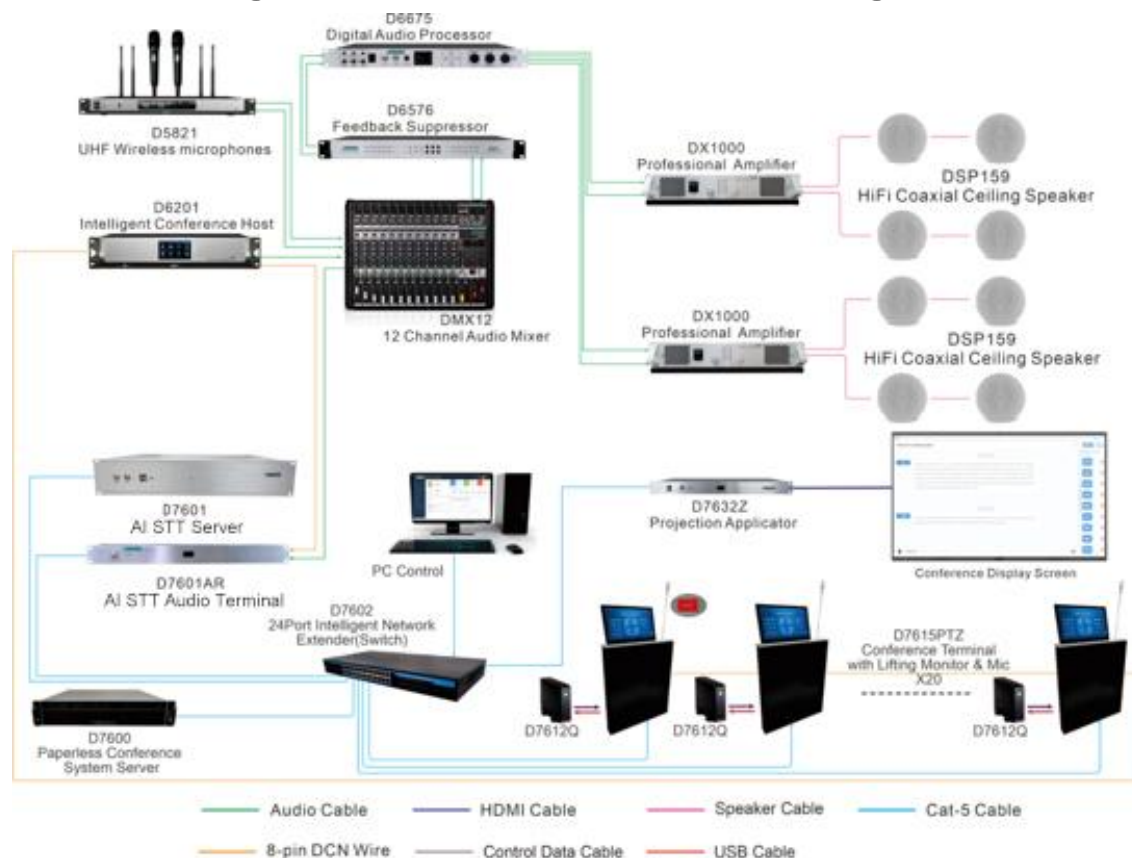
Application: The D6201 conference microphone captures voice signals within the meeting environment. The D7604AR AI STT terminal receives microphone signals and converts speech to text through speech recognition technology. The D7604 STT server receives and processes audio data, performing transcription, formatting, and error correction to deliver precise text results. The converted text is transmitted via network interface to the 7632Z projector and displayed in real-time on the large screen, enabling visual presentation of information. This system ensures rapid and accurate conversion of speech to text with timely display for participants, enhancing meeting comprehensibility and interactivity.

- D7604 and D7604AR real-time STT conference systems (offline version) (for standalone use with conference sound reinforcement projects, compatible with D62\D71\D73 series conference systems)

No.	Model	Product Name	Quantity
1	D7604	AI STT Server	1 pc
2	D7604AR	AI STT Terminal	1 pc
3	D7632Z	Projection Applicator	1 pc
4	D6201	Digital Conference Host	2 pcs
5	D6221	Desktop Chairman Microphone with Voting Function	1 pc
6	D6222	Desktop Delegate Microphone with Voting Function	12pcs
7	DMX12	12 Channel Audio Mixer	1 pc
8	D6576	Automatic Feedback Suppressor	1 pc
9	D6675	Professional Audio Processor	1 pc
10	DX2500	Professional Stereo Digital Power Amplifier (8Ω; 2x400W)	1 pc
11	D6564	10" Two-way Full Range Speaker	2pcs
Auxiliary equipment			
13	Switch	Switch	1pc
14	Screen	Conference Display Screen	1pc

- Note: This system solution is for reference only. Please contact us if needed.

STT System + Paperless System Solution



Solution Configuration:

Meeting Room: 10*20m²

System: AI STT System+D7600 Paperless Conference+D6201 Wired Conference System+Sound reinforcement system

- D7601、D7601AR AI STT Conference System can be used in conjunction with paperless systems.

No.	Model	Product Name	Quantity
1	D7601	AI STT Server	1 pc
2	D7601AR	AI STT Audio Terminal	1 pc
3	D7601ES	AI STT Server Software	1 pc
4	D7601DS	AI STT Large Screen Software	1 pc
5	D7601CS	AI STT Terminal Software	1 pc
6	D7632Z	Projection Applicator	1 pc
7	D7600	Paperless Conference System Server	1 pc
8	D6201	Digital Conference Host	2 pcs
9	D5821	UHF Wireless Microphones	1 pc
10	DMX12	12 Channel Audio Mixer	12pcs
11	D6576	Automatic Feedback Suppressor	1 pc
12	D6675	Professional Audio Processor	1 pc
13	MX1000II	Professional Stereo Digital Power Amplifier	2 pcs
14	DSP159	HiFi Coaxial Ceiling Speaker	8 pcs
15	D7615PTZ	15.6" Full HD Condenser Ultra-thin Conference Terminal with Lifting Monitor & Microphone & Nameplate	20pcs
16	D7612Q	Mini Conference Host (128G)	20pcs

- Note: This system solution is for reference only. Please contact us if needed.

■ STT System + Paperless System Solution

Solution:

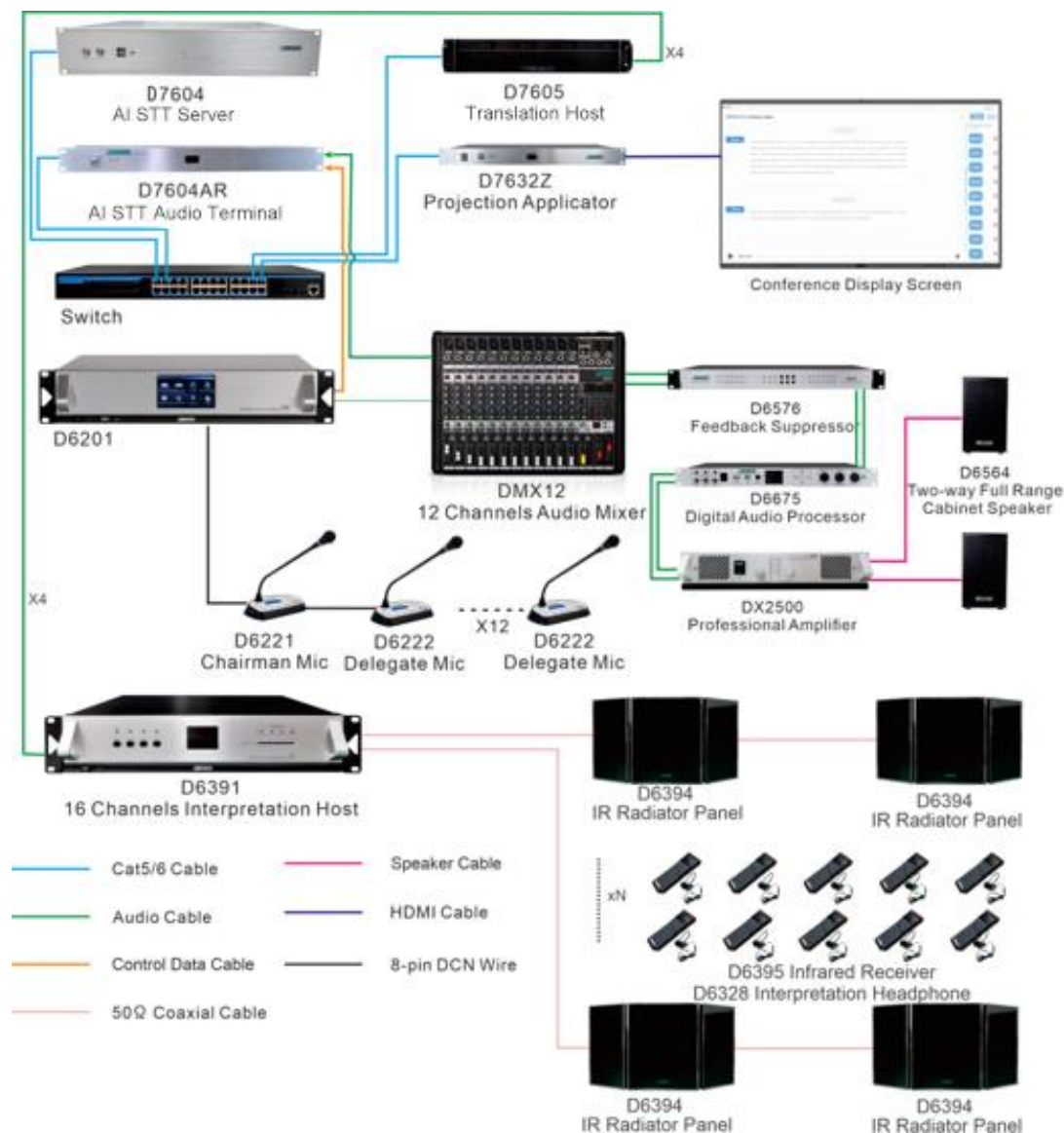
- D7601AR AI STT Terminal: Capture voice signals through the D6201 conference system microphone and convert them into text in real time.
- D7601 AI STT Server: Receive audio data, convert it into text using speech recognition algorithms, and perform formatting and error correction through natural language processing technology to ensure text accuracy.
- Paperless System: Store, manage, and share the transcribed text, supporting cloud or database synchronization for easy retrieval and sharing.
- Intelligent Display: Through AI STT software for large screens and terminal software, the transcribed content can be displayed in real-time on large screens and Paperless Conference Terminal, enhancing meeting efficiency and communication quality.

System Advantages:

- Improving work efficiency: By utilizing AI speech-to-text transcription, it automatically records and manages meeting and conversation content, reducing the time and effort consumption associated with traditional manual recording.
- Digitalization of information management: Achieve paperless office operations, with all documents stored electronically to avoid the storage and management issues associated with paper files.
- Improving accuracy and convenience: AI speech recognition technology can provide high-precision transcription services, reducing manual input errors and ensuring information accuracy.
- Enhancing information sharing and collaboration: The paperless system enables rapid information sharing among team members, improving communication efficiency and collaborative capabilities.
- Environmental protection and cost savings: Reducing paper usage lowers operational costs for enterprises while aligning with the concept of green environmental sustainability.



Solution for STT System and Simultaneous Interpretation



● Note: This system solution is for reference only. Please contact us if needed.

No.	Model	Product Name	Quantity
1	D7604	AI STT Server	1 pc
2	D7604AR	AI STT Audio Terminal	1 pc
3	D7632Z	Projection Applicator	1 pc
4	D7605	Translation Host	1 pc
5	D6201	Digital Conference Host	2 pcs
6	D6221	Desktop Chairman Microphone with Voting Function	1 pc
7	D6222	Desktop Delegate Microphone with Voting Function	12pcs
8	DMX12	12 Channel Audio Mixer	1 pc
9	D6576	Automatic Feedback Suppressor	1 pc
10	D6675	Professional Audio Processor	1 pc
11	DX2500	Professional Stereo Digital Power Amplifier (8Ω; 2x400W)	1 pc
12	D6564	10" Two-way Full Range Speaker	2pcs

Simultaneous Interpretation System

13	D6391	16 Channels Interpretation Host	1pcs
14	D6394	Infrared Radiation Panel	4pcs
15	D6395	Infrared Receiver	N pcs
16	D6395CB	30 Channels Battery Charging Box	N pcs



Solution for STT System and Simultaneous Interpretation



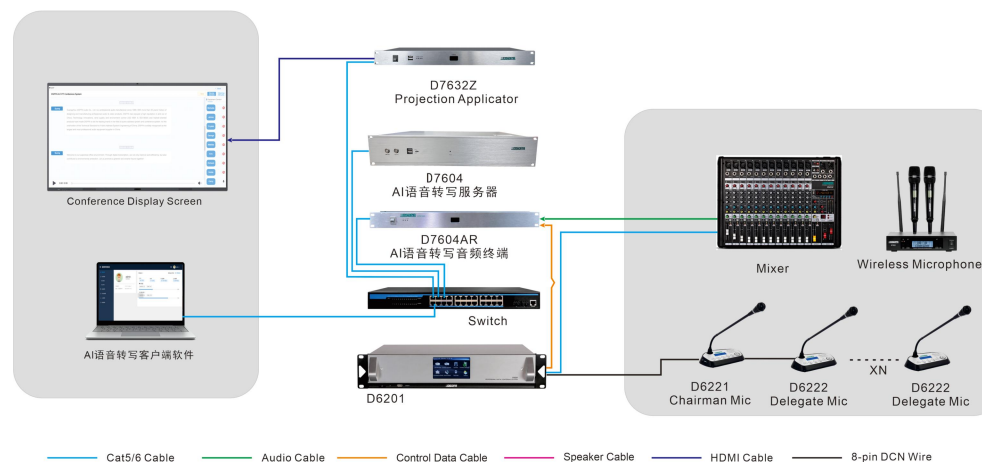
- The meeting room covers an area of 300 square meters, with a length of 15 meters and a width of 20 meters. It is primarily used for various forms of meetings, academic and technical exchanges, as well as internal training. To enhance work efficiency and ensure unified control and accurate traceability of meeting content, an advanced and technically sophisticated speech-to-text transcription system has been established. This system can be seamlessly integrated and collaboratively used with the meeting room's audio system to achieve real-time audio or recorded audio capture in different scenarios, which is then converted into text through speech recognition technology. For meeting scenarios requiring real-time display of speech content, the transcribed text is presented on-screen in real-time using software technology.
- The D6201 conference system conference microphone serves as an audio input device to receive voice signals from the environment. It transmits the sound signals to the 7604AR AI STT Audio Terminal.
- The D7604AR AI STT Audio Terminal is responsible for receiving audio signals from microphones. Through speech recognition technology, the audio data will be converted into corresponding text data.
- D7604 STT Server receives and processes voice data from the 7604ARAI Audio Transcription Terminal. It accurately transcribes audio signals into text, performs formatting and error correction, and delivers highly precise transcription results.
- The D7604 AI STT Server transmits the converted text to the 7632Z projection applicator device via a network interface, which then displays it on the large screen in real-time. This enables the real-time transcription content to be presented to the audience, achieving instantaneous visualization of information.
- The D7605 translation host receives text data from the D7604 STT Server and performs language translation. The translation host supports automatic translation among Chinese, English, French, and German, enabling the conversion of text data into the target language.
- The D6391 Interpretation Host supports up to 16 translation units working simultaneously, meeting the needs of most multilingual scenarios. In this solution, the D6950 receives translated text from the D7605 Translation Host and performs synchronized translation output, facilitating real-time voice broadcast of translated content for easy comprehension by multilingual audiences.

AI STT System Introduction

Language, as one of the primary channels for human information exchange, carries a vast amount of meaningful data content. With the research and development of intelligent speech technology, machines can now replace human labor in related tasks, effectively addressing this pain point.



System Architecture Diagram



DSPPA AI STT Conference System is a purely offline intelligent product specifically designed to address challenges such as difficulty in recording important meetings, low efficiency, and inability to review meeting content.

■ Function Advantages of AI STT System

Intelligent Retrieval

Audio recordings and text are automatically linked, enabling synchronized playback of pronunciation and text comparison. Supports full-text search for effortless historical data retrieval.

Meeting Materials Management

Support local meeting creation, meeting management, meeting minutes export, and knowledge base construction.

Transcription of Audio Recordings

Convert audio recordings to text with one click, get results in 10 minutes for 1 hour of audio.

Personalized Identification

Supports customized training for colloquial personal names, place names, and leaders' distinctive accents, as well as customization of regional dialects.

Real-time Voice Recording

Real-time speech-to-text conversion with live editing and correction capabilities, generating both audio and text transcripts immediately upon meeting conclusion.

Role Auto-Separation

Automatically identify speaker roles and names, display meeting minutes segmented by speaker, and customize speaker names.

Real-time Caption Display

During the meeting, participants can have their speech simultaneously displayed as subtitles on the large screen, with automatic differentiation and transcription for different speakers.

Built-in DSP Noise Reduction Algorithm

Built-in DSP noise reduction algorithm, achieving an accuracy rate of up to 98%+ for standard Mandarin.

■ Product Introduction - Projection Applicator



Projection Applicator
D7632R/D7632Z

Meeting participants can independently project the content of their speeches onto the conference room screen through this device, or have it managed by the secretary terminal before projection. The conference secretary can also select promotional videos or music for projection playback according to the unit's requirements.

Product Performance

- D7632R: Support 1080P
- D7632Z: Support 4K, Real-time STT subtitles;
- The D7632R/D7632Z can be installed in conference rooms equipped with large screens and connected to the room's display devices. It supports simultaneous projection by multiple participants, with the applied presentation content automatically pushed to the screen for display. Users can also select corresponding promotional videos or music for projection playback as needed, providing a more convenient and reliable meeting experience.

■ Product Introduction - AI STT Server



AI STT Server
D7601/D7604

The speech recognition engine server meets the functional requirements of modern meeting rooms for energy conservation, environmental protection, and convenience.

Leveraging large-scale language models, it intelligently predicts context, provides intelligent sentence segmentation and punctuation prediction, and formats numbers, dates, times, and other content in the results into standardized text.

It can also offer real-time subtitles during meetings to achieve live broadcast effects, along with real-time transcription by the speech recognition engine server and rapid generation of meeting minutes.

Product Performance

- Supports offline transcription
- Supporting role separation
- High transcription accuracy rate
- Real-time caption display

Product Introduction - AI STT Audio Terminal



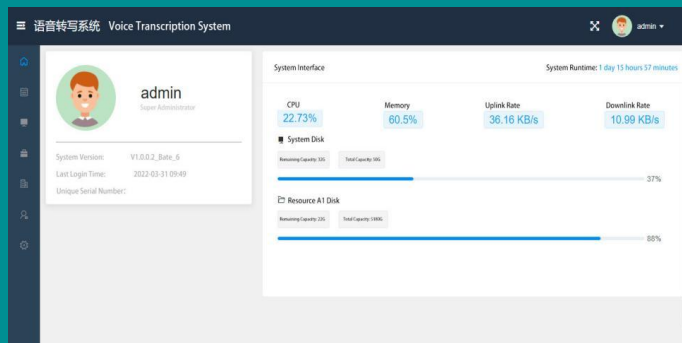
AI STT Audio Terminal
D7601AR/D7604AR

The audio collector adopts proprietary self-developed data transmission technology to achieve high-quality audio acquisition and transmission. When paired with the speech transcription system software, it enables speaker diarization functionality and supports RS232 for switching and labeling each channel. It is suitable for multi-channel audio acquisition application scenarios.

Product Performance

- 1. Utilizing embedded computing technology and DSP audio processing technology, with high-speed industrial-grade chips, the startup time is <10s.
- 2. Based on 3-layer network transmission technology, achieving networked transmission of 16-bit CD-quality audio signals.
- 3. Simultaneously supports 2-channel mono linear audio input acquisition.
- 4. Supports integration with the company's digital conferencing system, with a maximum capacity of 4,096 role separations.
- 5. Supports RS232 serial port control for each channel and channel name identification.
- 6. Supports configuring automatic detection for each channel, with automatic audio collection and upload to the server.
- 7. Supports remote online firmware upgrades, reducing the workload of maintenance personnel.
- 8. The product is easy to scale up, not restricted by geographical location, and simple to install.

Product Introduction - Paperless AI STT Software



D7601ES

AI STT Server Software Interface

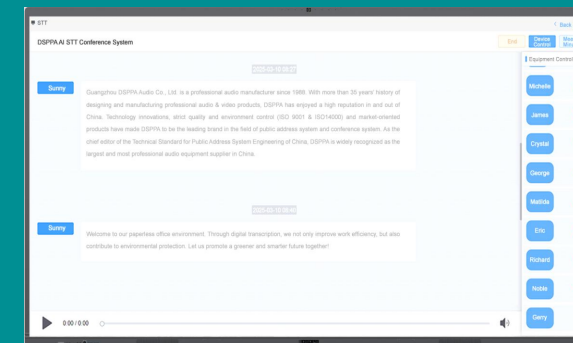
The intelligent STT System provides real-time speech recognition and audio file recognition capabilities, meeting a series of needs such as daily meetings, report speeches, command and dispatch, and audio transcription that require real-time text conversion. It enables real-time audio or recording collection in meeting scenarios and converts it into text in real time through speech recognition technology.



D7601CS

STT Terminal Software

The system is equipped with basic functions such as meeting audio management, real-time proofreading and editing, and live transcription of text. Additionally, it provides features like key marking and keyword optimization to facilitate quick organization of meeting materials. It also offers automatic paragraph segmentation, removal of filler words, interjections, and repeated words to automatically optimize text results. Furthermore, the system includes a full-text search function for easy retrieval of historical audio recordings.



D7601DS

STT Large Screen Software

To meet the requirements of different meetings, the system can not only provide real-time transcription results for drafting preliminary documents but also display them on-screen via panels, showcasing real-time speech-to-text conversion. Additionally, the font color and panel background color can be adjusted as needed based on actual conditions.



CREATING THE BEST SOUNDING THE WORLD

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