TL-4200

Desktop Digital Conference System







TL-4200 Desktop Digital Conference System

GONSIN TL-4200 digital conference system offers versatile conferencing solutions featuring microphone discussion, interactive voting, video tracking, digital recording and software control.



TL-4200 basic discussion unit allows the delegate to speak, request to speak and listen to speech, other units with extended function can support register attendance and cast a vote. Each unit comes with headphone jack and volume control for delegates to listen to the floor speaker and any interpreted language channel, and adjust volume level for comfortable listening. Built-in speaker automatically mutes when microphone is turned on. 1 to 4 delegate microphones can be activated at the same time. The system also comes with voiceactivated function, in this mode, the microphone will be activated as the users speak. The sensitivity of voice-activated is adjustable, which makes it more user friendly for normal users and the visually impaired people.

Main Features

- Elegant streamline design
- Exquisite manufacturing process
- Voice-activated function
- Support multiple chairman units and vice chairman units
- ◆ Built-in loudspeaker
- Support auto camera tracking function (SD and HD)
- ◆ Highly resistant to mobile phone interference
- Electret cardioid pickup pattern microphone, rich timbre
- White-on-blue backlit LCD to display the unit status
- ◆ Pluggable gooseneck microphone stem, red ring luminant to indicate active mic

Basic Functions



- Microphone discussion: push to talk or request to talk. AUTO/FIFO/OPERATOR/VOX modes are available for microphone management
- ◆ VOX sensitivity and mic time-out are adjustable
- Unlimited chairman units and vice chairman units are allowed
- System supports hot plugging
- Six kinds of detachable gooseneck microphone stem
- Attandence registration with software: pressing key or inserting card
- Speak time control with software
- VOX function: in vox mode, the unit will be activated as user speaks; VOX sensitivity can be adjust by the server (high, middle, low); microphone time-out is adjustable (6-180 seconds), 1-4 delegate unit can be used except the chairman unit
- Optional HD video camera tracking matrix ,switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- 4*1+1 video matrix is built in the Central Control Unit, and standard definition video conference camera is selected, which can realize automatic camera tracking function of standard definition and support preset overall view
- Dynamic LCD messages for voting, discussion, interpretation and attendance registration
- Units come with recording output



The chairman unit has following functions besides functions above:

- Chairman units can be activated at any time
- Chairman unit can override/mute all the active delegate units

Based on functions of TL-4200, TL-VB4200 unit has functions below:



- Voting: delegate can vote for Yes, No, Abstain . Vote counting and result display are enabled automatically by PC
 - -- Single-choice and multiple-choice voting
 - -- First keypress and final keypress voting
- Election: elect one or more out of N candidates, with 'competitive election', 'equal number election' and 'quick election'
- Evaluation: four buttons to evaluate. It comes with four choices "Good", "Fair", "Poor", "Abstain", or the customized evaluation way by software.
- LCD Dynamic display of the voting process(such as " registration please, registration done, voting please, voted, please return, request to speak, mic on", etc.)



Technical Specifications

Mounting type	desktop		
Frequency response	20Hz~20KHz		
Sensitivity	-46dB±4dB		
THD	(THD)<0.05%		
SNR	≥96dB		
Max SPL	125 dB (THD<3%)		
Dynamic range	>85dB		
VOX Sensitivity	High/Middle/Low (77dB/80dB/82dB)		
VOX auto mic time-out	6-180 seconds		
Power	24V		
Microphone stem length	410mm(standard)(310mm/510mm optional)		
LCD	size: 47mm×18mm		
	blacklight: white letters on blue		
Built-in loudspeaker	2W/8Ω		
Eeaphone jack	Mono 3.5mm jack		
Weight	0.8Kg		
Dimensions(W×D×H)	145mm×173mm×57mm		
Working temperature	0~45°C		
Storage temperature	-20~50°C		



Conference Unit Feature Chart

Model Number	Product Description	Gooseneck Microphone	Voting Facilities	Loud speaker	Headphone	LCD Screen	Card Reader
TL-VX4200	Chairman Unit	\checkmark		~	~	~	\checkmark
TL-VD4200	Delegate Unit	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
TL-VXB4200	Chairman Unit	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark
TL-VDB4200	Delegate Unit	\checkmark	~	~	~	\checkmark	~

Central Control Unit



The brand new design GONSIN central control unit adopts integrated tempered glass panel and navigational rotary knob design, clear layout and user-freindly. One central control unit is able to accommodate 60-70 microphones. By cascading extension units, the system can support upto 4096 conference units. The central control unit has built-in 4×1 SD video matrix, to support SD video tracking with adding SD cameras; it also supports extended HD video matrix. Built-in DSP digital audio processor is used for feedback prevention, when the sound environment is not ideal, turn on DSP function to avoid feedback. Built-in treble/bass compensation for better sound quality. VOX sensitivity, built-in loudspeaker volume and LCD screen contrast are adjustable by central control unit or by each unit. Unit ID number writing is also included.

Features

- ♦ Black tempered glass panel design, simple and high-end design. All the function divisions are clearly layout and easy to operate.
- ♦ Built-in DSP processor for acoustic feedback prevention.
- ♦ Built-in OLED screen to display system set status.
- ♦ VOX sensitivity adjustable.
- ♦ Built-in 4×1 SD video matrix, and support extended HD video matrix.
- ♦ Supportive SD and HD camera tracking.
- ♦ Built-in treble/bass compensation for better sound quality.
- ◆ Support clock and calendar function,
- ♦ Support plug-in USB disk for audio recording.

Central Control Unit

TL-Z4



Basic functions

- ◆ In compliance with IEC60914 international standard
- With full digital audio technology, built-in high-speed CPU and high-performance DSP digital audio processor, CD sound quality.
- ullet Acoustic frequency response can up to 20Hz \sim 20KHz.
- Black tempered glass panel design, simple and high-end design. All the function divisions are clearly layout and easy to operate.
- The sever comes with built-in OLED panel to display system status, active mic, speaking mode. Language supports Chinese/ English. Russia, Spanish can be customized.
- Navigation knob for more convenient operation and management
- 4 route port to connect conference units, the system has auto-repair function, support hot plugand-play.
- One central control unit is able to accommodate 60-70 microphones. By cascading extension units, the system can support upto 4096 conference units.
- Universal voltage power switch for wider usable range and sufficient power supply.
- Support USB auto recording: after the front panel is inserted U disk, audio recording can be set automatically or manually. The recording status can be displayed in real time.
- Optional HD video camera tracking matrix ,switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- 4*1+1 video matrix is built in the Central Control Unit, and standard definition video conference camera is selected, which can realize automatic camera tracking function of standard definition and support preset overall view
- Input port for external audio signal: for alarm audio, PA, and other audio systems, the conference units can output audio signals synchronously.
- Internal clock and calendar, it will be displayed on central control unit, conference units.
- Built-in auto-detection fo conference units; before conferences, self-test can be run for each conference units.
- ◆ TCP/IP PC communication between central control unit and PC, which can achieve control management, remote fault diagnosis and remote update.

Stand-alone Mode Functions:

- ID number writing: the conference system supports automatically or manually assign ID to the corresponding equipment.
- ◆ All or individual units' VOX sensitivity are adjustable (apply to 5600 series)
- ◆ LCD screen contrast of Unit is adjustable (apply to 4200 series)
- Speaking mode: Operator, Auto, FIFO, VOX, request to speak (with software).
- VOX function: in VOX mode, the unit will be activated when user speaks; VOX sensitivity can be adjust by the server (high, middle, low); microphone time-out is adjustable (6-180 seconds).
- 1-4 delegate unit can be used simultaneously (except chairman unit); chairman/vice chairman unit are not subject to active mic limit, it's allowed to open at any time.
- The system can have multiple chairman units; delegate unit can be set as vice-chairman units. There are unlimited chairman and vice-chairman units.

■ Extended functions under PC and software control

- Register function and real-time participants statistics.
- * Centralized conference management, operator can allow or reject delegate request to talk.
- Speaking time limit can be preset for conference units; After the speaking time is up, the conference unit will be off.
- Conference audio recording and video recording (need audio video capture card)
- Delegate unit can be set to be vice-chairman units by software; vice-chairman unit is not subject to active mic limit.
- Support management software dual-system hot backup function; One control computer can be set as backup and connect to the system; if the current computer has faults, the backup computer can be automatically hosted to ensure the smooth and continuous meeting.
- Conference management software can be customized.



Central Control Unit

TL-ZB4



Basic functions

- Based on functions of Central Control Unit TL-Z4, Central Control Unit TL-ZB4 has functions below: Extended functions under PC and software control
 - * Voting: Yes, No, Abstain . Vote counting and result display are enabled automatically by PC
 - Single-choice and multiple-choice voting
 - First key-press and final key-press voting
 - Election: elect one or more out of N candidates, with 'competitive election', 'equal number election' and 'quick election'
 - ◆ 4-key evaluation: Good, Fair, Poor, Abstain.
 - Utilize multi-level error correction and data encryption technique to ensure information security.
 - Customized voting options and voting methods, support customized language mode or display screen.



Technical Parameters

Max System Capacity	4096
Standard Capacity	60~70(different from various models)
Acoustic Frequency Response	20Hz~20KHz
SNR	>96dBA
Channel Isolation	>85dB
Dynamic Range	>94dB
THD	<0.05%
Power	AC100~240V 50/60Hz
Audio Port	1 balanced (XLR)
	2 unbalanced (RCA)
Max Audio Output	LINE OUT : +20 dBu unbalanced
	BLANCE OUT: +20 dBu balanced
Output Impedance	>1ΚΩ
External Audio Input	0.775V (PHOENIX terminal)
Central Control Method	RS-232
PC Connection Method	TCP/IP
Camera Control Method	RS-485
Max Power Consumption	300W
Terminal Connection Port	8-pin×4
	13-pin×4 (for TC-Z4,TC-ZB4 only)
Channel selection	6 (for TC-Z4,TC-ZB4 only)
Display Screen	OLED (61mm×37mm)
Audio recording port	USB (USB FAT32)
Audio recording File Size	0.8M/m
Active Delegate	1/2/3/4 (not including chairman unit)
VOX sensitivity	H/M/L (76dB/80dB/82dB)
Support Camera Number	4 SD cameras (built-in SD matrix), MAX 8 cameras with extended matrix
Video Input Port	RCA×4 (1Vp-p 75Ω)
Video Output Port	RCA×2 (1Vp-p 75Ω)
Camera Tracking Protocol	PELCO-P/PELCO-D/VISCA
Operating Temperature	-0~45°C
Storage Temperature	-20~50°C
Dimensions (L*W*H)	485mm×350mm×90mm
Installation	Desktop or 19" rack mounting
Weight	7.6Kg



Extension Unit ZJ-KR



Basic functions

- Confirm to IEC 60914 international standard.
- With full digital audio technology, built-in high-speed CPU and high-performance DSP digital audio processor.
- Black tempered glass panel design, simple and high-end design. All the function divisions are clearly layout and easy to operate.
- ◆ Three routes 8-pin ports to connect conferenc units, another two route 8-pin port for system cascading.
- Three routes 13-pin ports to connect conferenc units, another two route 13-pin port for system cascading.
- Automatic restoration function: support hot plug and play.
- One central control unit is able to accommodate 60-70 units. By cascading extension units, the system can support upto 4096 conference units.
- Universal voltage power switch for wider usable range and sufficient power supply.

Technical Specifications

Max System Capacity	4096
Standard Capacity	60~70(different from various models)
Power	AC100~240V, 50/60Hz
MAX Power	300W
Terminal Connection Port	8-pin ×5, 13-pin×5
Operating Temperature	0~45°C
Storage Temperature	-20~50°C
Dimensions (L*W*H)	485mm×350mm×90mm
Installation	Desktop or 19" rack mounting
Weight	7.6Kg

GONSIN Digital Conference Management System V7.1.0

Basic functions

- It supports main screen and split screen display; the software interface can be synchronized to the large screen; supports screen resolution adaptation.
- It has abundant functions, and realizes different software module functions when connected to different matching products; software module customization is available.
- It is compatible with GONSIN's other equipment, so that data is interconnected between wired products/wireless products/multiple product formats/multiple systems
- It has Super Dog Data Encryption; LicenseOnChip technology ensures that the license can not be tampered; it support AES algorithm encryption. Using ECC key exchange technology to ensure conference data transmission under encryption protection
- It has serial number authorization function; when super dog encryption is not used, you can use the software by getting the officially granted authorization code.
- Log in through the user's account and password; level-oriented management, prohibiting external personnel tampering or leaking conference information. Support different user type settings, including operating users, managing users, backup users, etc.
- Different languages are available, including Chinese, English and Russian. With language customization function, visual language editing interface, easy for translators to edit and proofread; supports language packet import / export.
- It has equipment management function, and supports online monitoring of system servers and conference equipment. Support centralized management of equipment, realizing equipment power detection, operation status detection, unified shutdown and other operations
- It supports personnel data input, including name, photo, position, unit number, seat number, custom type and so on. It supports two modes: online creation and offline creation.
- It supports auto camera tracking settings; you can choose from a variety of camera/matrix types and switch to corresponding control protocol. Preset bit information can be imported and exported, easy to save and invoke.
- It supports to create new venues or to open existing venues, and set up the venue background map and arrange seats. The seat setting is suitable for all meetings, and can be invoked through the conference schedule.
- It supports writing card devices for IC card reading and writing. The card writing device is suitable for all meetings.
- It supports to create conference name and schedule, and a variety of check-in modes are available, including the key-press registration, card registration, and no card registration.
- You can set conference topics and related content, including slogans, votes, discussions, manuscripts (support office document insertion) and so on.
- It supports voting, evaluation, election, grading, and fast election; voting options can be customized, and supports the setting of named voting, secret voting, and weight voting; working with paperless system, it will has the multi-topic batch voting function
- Support screen customization; you can set text font, color, picture and data association in the visual editing interface. Support for fast switching of multiple interface styles
- Initiate a conference through the software, supporting personnel registration, slogan display, text display, enter the discussion, start voting and other operations
- The software supports conference microphone control. It can set speech mode, application, number
 of speakers, speech time, seat display mode and large screen display mode in real time.
- The software supports post-conference information processing, and the list of conference personnel, the results of topics and proposals, and documents produced during the conference can be exported and printed. It supports uploading historical data from the cloud (only for some supporting products).
- Support for the tailor-made software development; interface protocol can be opened to achieve customized development according to needs of the project.

Technical Parameter

Operation system	WIN7/WIN8/WIN10 operation system 32/64 bit
Video card	Independent graphics card supports VGA\HDMI\DVI interface, supporting display and split screen.
CPU	i5 or above
Hard disk capacity	500GB or above
memory capacity	4GB or above
PC interface	1 way RS-232 interface; 2 way RJ45 interface
Resolution ratio	adaptive
Video tracking protocol	PELCO-P/PELCO-D/VISCA
PC communication method	Ethernet/RS-232

Function Introduction

(1)Pre-conference preparation

(2)Holding a conference

(3)Post-conference management



Select the corresponding conference and schedule



1. System management (edit personnel data)

6. Registration control (register before voting, and not-registered equipment can not

8. Personnel information (list of present personnel and absent personnel can be checked and exported to Excel)



2. Equipment management (connect to the server, and find out the equipment for registration and voting).





3. Conference management

(conference name, conference schedule, number of registration and establishment of registration method)



(Choose the appropriate topic, and conduct operation like slogan display, voting, comment and election)

9. Voting, election and evaluation

(enquiry and export vote, election and evaluation results to Excel)



4. Topics and proposals

(set voting, electing, deliberating and discussing topics, as well as voting method and displaying method)



5. Participants

(choose participants of the meeting from the personnel information)



Function Introduction

According to the conference process, it has three main modules: [Pre-conference settings], [Holding a conference] and [Post-conference management]. The interface is concise and convenient to operate.

Input pre-conference information, including: equipment ■ Pre-conference management, personnel information, camera settings, seating settings, card writing equipment, language settings, preparation conference information, topics and proposals, participants, screen customization, etc. Support sub-screen display and system control during the ■ Hold a conference conference, including: registration management, topics management, discussion control, etc. Support information processing after the conference, including: personnel information (list statistics, personnel ■ Post-conference check, number printing, report printing, etc.), voting results management (voting, evaluation, election, grading results check and printing). Compatible with other equipments of GONSIN system, capable for working with multiple equipment of varied models. Based on network design, it is suitable for use on WIN7/WIN8/WIN10 operating system. Use AES algorithm encryption and ECC key exchange technology, ensuring conference data transmission under encryption protection.

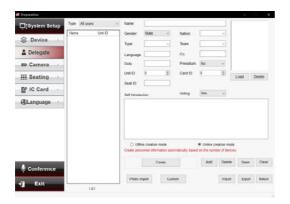
System settings



Support multiple languages:

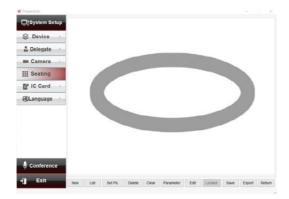
You can choose from Chinese, English and Russian. Through language customization function, you can customize other language interface; it supports for language packet import / export

Pre-conference preparation



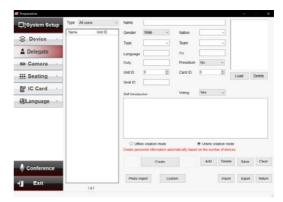
Personnel information:

Input information of participants, including name, photo, position, unit number, seat number, custom type, etc. Support online and offline creation



Seat setting:

The layout of the equipment is arranged according to the on-site seats, and you can monitor the process of the conference directly.



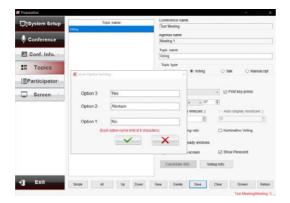
Camera settings:

Set up auto camera tracking of the conference equipment.



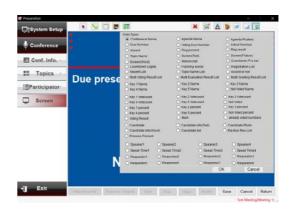
Conference information:

Create or edit conference names and schedules



Topics and proposals:

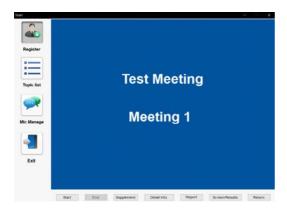
Create or edit topics and proposals. Topics items can be customized. Including slogans, voting, discussion, manuscripts and other settings, more flexible use.



Customizable Screen:

Users can set the relevant contents of the screen display, You can set text font, color, picture and data association in the visual editing interface. Support for fast switching of multiple interface.

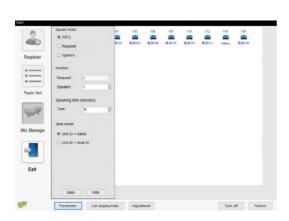
Hold a conference

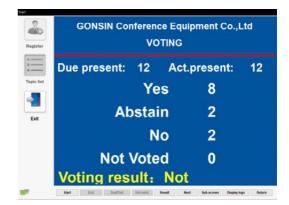


Registration:

Carry out conference registration function, and support key-press registration, card registration and other registration methods

* some devices do not support card registration





Vote:

The function of meeting voting can be realized by means of voting, deliberation, election, grading, quick election, and custom voting items.

Discussion:

Speaking parameters can be set in real time, such as speaking mode, application, number of speakers, speaking time, seat display mode and large screen display mode.

Post-conference Management



After the meeting, you can search and print the results of the conference registration, vote, election, appraisal and grading.



It supports post-conference information processing, and you can export and print the list of participants, the results of the topics and proposals, and the documents produced during the meeting. It supports uploading historical data from the cloud (only for some supporting products).



Accessories

▶ IC Card Encoder SRD-U100

Support read out and write down information, reset password

Speed	<0.2s
Interface	USB
Installation	Flush-mounting



IC Card BL7442

Each card has a unique 32-bit serial number and independent password and access control. Users can set different password with software, one card for appointed conference. Data can be preserved up to 10 years and a card can be rewritten up to 100 thousand times with unlimited reading times.

Dimensions	85.6x53.98x0.8 (LxWxD)
Operating temperature	-20°C to 50°C



• Extension Cable 8PS-03/05/10/15/20/40

Color	Black		
Туре	8PS		
Connectors	One male, one female		
Length	3/5/10/15/20/40m		
Note: Select in according to the conference demand			

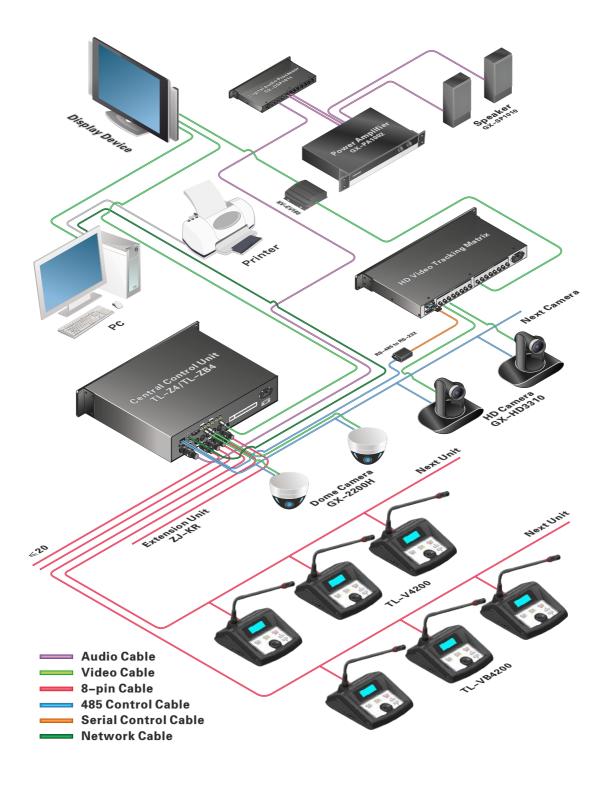


Connection Cable 8P-T3

Color	Black	
Туре	8PS	
Connectors	Two male, one female	
Length	1.5+1.2m	
Note: one piece for one discussion unit		



System Configuration



• TL-V4200 / TL-VB4200 system connection diagram

System Components

Model Number	TL-V4200	TL-VB4200
Central Control Unit	TL-Z4	TL-ZB4
Extension Unit	ZJ- KR	ZJ- KR
Chairman Unit	TL-VX4200	TL-VXB4200
Delegate Unit	TL-VD4200	TL-VDB4200
Management Software	V7.1.0 (optional)	V7.1.0
IC Card Encoder		SRD-U100
IC Card		BL7442
T-type connection cable	8P-T3	8P-T3
Extension cable	8PS	8PS



GONSIN CONFERENCE EQUIPMENT CO.,LTD. www.gonsin.com













