GONSIN

TL-4100 series

Digital Conference System



Gonsin Digital Conference Equipment Co., Ltd.

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PRODUCT LIST

CONTROL UNIT			
TL-Z1	Central control and power supply unit for conference discussion		
TL-ZB1	Central control and power supply unit for discussion and voting		
TC-Z1	Central control and power supply unit for discussion and interpretation		
TC-ZB1	Central control & power supply unit for discussion, interpretation & voting		
CONTRIBUTION UNIT			
TL-VX4100	Chairman unit for discussion		
TL-VD4100	Delegate unit for discussion		
TL-VXB4100	Chairman unit for discussion and voting		
TL-VDB4100	Delegate unit for discussion and voting		
TL-VXC4100	Chairman unit for discussion and interpretation		
TL-VDC4100	Delegate unit for discussion and interpretation		
TL-VXCB4100	Chairman unit for discussion, interpretation and voting		
TL-VACB4100	Delegate unit for discussion, interpretation and voting		

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TL-4100 series

Digital Conference System

Feature Chart

Model No Feature	TL-VD 4100	TL-VX 4100	TL-VDB 4100	TL-VXB 4100	TL-VDC 4100	TL-VXC 4100	ΓL-VDCB 4100	TL-VXCE 4100
Central Unit	TL-Z1	TL-Z1	TL-ZB1	TL-ZB1	TC-Z1	TC-Z1	TC-ZB1	TC-ZB1
English Version	√	√	√	√	√	√	√	√
Spanish Version	√	√	√	√	√	√	✓	√
French Version	√	√	√	√	√	√	√	√
Russian Version	√	√	√	√	√	√	✓	√
Priority Button		√		√		√		√
Microphone	√	√	√	√	√	√	√	√
Voting Keys			√	√			✓	√
Channel Selectors					√	√	✓	√
LCD Screen	√	√	√	√	√	√	√	√
Phone Jack	√	√	√	√	√	√	√	√
Recorder Jack	√	√	√	√	√	√	√	√
Volume Control	√	√	√	√	√	√	√	√
Chipcard Reader	√	√	√	√	√	√	√	√
LED Ring	√	√	√	√	√	√	√	√
8-pin Cable	√	√	√	√				
13-pin Cable					√	√	✓	√
Camera Tracking	√	√	√	√	✓	√	√	✓

TL-V4100

Digital Conference System

GONSIN TL-V4100 digital conference system offers a multi-functional conferencing solution integrated with microphone discussion, chipcard reading, attendance registration, chairperson priority, LCD display, headphone monitoring, video switching, camera tracking, digital recording and software control.

The basic system on one central control unit supports up to 60 delegate units and can be expanded to 200 delegate units with additional extension units. 1 chairperson unit & 10 vice-chairperson units can be used in a system. Any delegate unit can be preset as vice-chairperson unit. Multiple control units can be cascaded together to form a system of up to 1000 delegate units.

Main Features

- Effective microphone management with excellent sound quality
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- LCD display of conference and user-related information
- Attendance registration using IC card or microphone button
- Up to 4 dome cameras can be supported to track the speaking delegate
- The system can run with or without PC/software control
- Three selectable microphone modes are available for delegate discussion:

OPEN - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. The delegate microphones more than the preset number cannot be activated and are unable to register a request to speak.

FIFO - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. On a FIFO (first in first out) basis, any delegate can override another delegate simply by activating the microphone, but cannot override the chairperson.

OPERATOR - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. Up to 8 delegates more than the preset number can register a request and wait to speak, and can be switched off manually to cancel the request.

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TL-VD4100

Delegate Unit



TL-VX4100



- Push button to turn on/off the microphone
- High quality unidirectional electret condenser microphone
- LED red ring luminant to indicate active microphone
- Built-in chipcard reader for user identification
- Back-lit LCD screen for information display
- 3.5mm jacks for headphone and recording w/ level control
- Supports automatic video camera tracking
- Frequency response: 50Hz to 18kHz
- S/N ratio at 1mV input level: -95dB
- Sensibility: -46±4dB
- Power input: 24V DC
- Pick-up range: up to 60 cm
- Microphone stem length: 41 cm
- ABS base dimensions: 150x135x50 mm (L*W*H)
- Designed for portable or fixed tabletop mounting
- Captive double-shielded cable with 8-p female connector: 50 cm
- Chairperson unit with additional priority button to override/mute delegate units

TL-VB4100

Digital Conference System

GONSIN TL-VB4100 digital conference system offers a multi-functional conferencing solution that combines microphone discussion, digital voting, attendance registration, chipcard reading, chairperson priority, LCD display, headphone listening, video switching, camera tracking, digital recording and software control.

The basic system on one central control unit supports up to 60 delegate units and can be expanded to 200 delegate units with additional extension units. 1 chairperson unit & 10 vice-chairperson units can be used in a system. Any delegate unit can be preset as vice-chairperson unit. Multiple control units can be cascaded together to form a system of up to 1000 delegate units.

When the system runs without PC/software control

- Effective microphone management with excellent sound quality
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- LCD display of conference and user-related information
- Up to 4 dome cameras can be supported to track the speaking delegate
- Three selectable microphone modes are available for delegate discussion:

OPEN - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. The delegate microphones more than the preset number cannot be activated and are unable to register a request to speak.

FIFO - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. On a FIFO (first in first out) basis, any delegate can override another delegate simply by activating the microphone, but cannot override the chairperson.

OPERATOR - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. Up to 8 delegates more than the preset number can register a request and wait to speak, and can be switched off manually to cancel the request.

When the system functions with PC/software control

- Centralized microphone management
- Operator control over delegate request-to-speak list
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- Delegate speaking time limit can be preset or controlled by operator
- LCD display of conference and user-related information
- Attendance registration using IC card or microphone button
- Dynamic registration mode and countdown registration mode
- LCD display of conference and user-related information
- Up to 4 dome cameras can be supported to track the speaking delegate
- HDD (Hard disk drive) conference recording can be done via PC/software
- Different voting types and options:
 - Parliamentary voting, ordinary election, multi-choice: YES / NO / ABST
 - Quick election: 1/2/3/4/5
- Dynamic voting mode or countdown voting mode
- First keypress valid mode or last keypress valid mode
- Voting results can be stored or printed out via PC
- Three microphone modes are available for delegate discussion:

Request to Speak - allows to set the number of simultaneous active delegate microphones from 1 to 4. The delegate microphone cannot be activated until a registered request is allowed by the operator.

Wait to Speak – the first delegate to push the MIC button gets the floor and the other delegates have to wait in queue. Only one delegate is allowed to speak at one time.

Free to Speak – the first 4 delegates who request to speak can push to talk freely. The next one cannot be active until the last one is turned off.

TL-VDB4100

Delegate Unit



TL-VXB4100



- Microphone is turned on/off via a push button
- YES/NO/ABST, 1/2/3/4/5 numeric keys for digital voting
- High quality unidirectional electret condenser microphone
- LED red ring luminant to indicate active microphone
- Built-in chipcard reader for user identification
- Back-lit LCD screen for information display
- 3.5mm jacks for headphone & recording w/ level control
- Supports automatic video camera tracking
- Frequency response: 50Hz to 18kHz
- S/N ratio at 1mV input level: -95dB
- Sensibility: -46 ± 4dB
- Power input: 24V DC
- Pick-up range: up to 60 cm
- Microphone stem length: 41 cm
- ABS base dimensions: 150x135x50 mm (LxWxH)
- Captive double-shielded cable with 8-p female connector: 50 cm
- Designed for portable or fixed tabletop mounting
- Chairperson unit with additional priority button to override/mute delegate units

TL-VC4100

Digital Conference System

GONSIN TL-VC4100 digital conference system offers a multi-functional conferencing solution integrated with microphone discussion, simultaneous interpretation, language distribution, attendance registration, chipcard reading, chairperson priority, LCD display, headphone monitoring, video switching, camera tracking, digital recording and software control.

The basic system on one central control unit supports up to 60 delegate units, 5 interpreter units and can be expanded to 200 delegate units with additional extension units. 1 chairperson unit & 10 vice-chairperson units can be used in a system. Any delegate unit can be preset as vice-chairperson unit. Multiple control units can be cascaded together to form a system of up to 1000 delegate units.

The system can seamlessly interface with GONSIN IR/DSSS language distribution system to provide simultaneous interpretation for additional participants.

Main Features

- Effective microphone management with excellent sound quality
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- 6 language channels for simultaneous interpretation
- LCD display of conference and user-related information
- Attendance registration using IC card or microphone button
- Up to 4 dome cameras can be supported to track the speaking delegate
- The system can run with or without PC/software control
- Three selectable microphone modes are available for delegate discussion:

OPEN - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. The delegate microphones more than the preset number cannot be activated and are unable to register a request to speak.

FIFO - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. On a FIFO (first in first out) basis, any delegate can override another delegate simply by activating the microphone, but cannot override the chairperson.

OPERATOR - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. Up to 8 delegates more than the preset number can register a request and wait to speak, and can be switched off manually to cancel the request.

TL-VDC4100

Delegate Unit



TL-VXC4100



- Pushbutton to turn on/off the microphone
- Up/down buttons for language channel selection
- High quality unidirectional electret condenser microphone
- LED red ring luminant to indicate active microphone
- Built-in chipcard reader for user identification
- Back-lit LCD screen for information display
- 3.5mm jacks for headphone & recording w/ level control
- Supports automatic video camera tracking
- Frequency response: 50Hz to 18kHz
- S/N ratio at 1mV input level: -95dB
- Sensibility: -46 ± 4dB
- Power input: 24V DC
- Pick-up range: up to 60 cm
- Microphone stem length: 41 cm
- ABS base dimensions: 150x135x50 mm (LxWxH)
- Captive double-shielded cable with 13-p female connector: 50 cm
- Designed for portable or fixed tabletop mounting
- Chairperson unit with additional priority button to override/mute delegate units

TL-VCB4100

Digital Conference System

GONSIN TL-VCB4100 digital conference system offers a multi-functional conferencing solution integrated with microphone discussion, digital voting, simultaneous interpretation, language distribution, attendance registration, chipcard reading, chairperson priority, LCD display, headphone listening, camera tracking, digital recording and software control.

The basic system on one central control unit supports up to 60 delegate units, 5 interpreter units and can be expanded to 200 delegate units with additional extension units. 1 chairperson unit & 10 vice-chairperson units can be used in a system. Any delegate unit can be preset as vice-chairperson unit. Multiple control units can be cascaded together to form a system of up to 1000 delegate units.

The system can seamlessly interface with GONSIN IR/DSSS language distribution system to provide simultaneous interpretation for additional participants.

When the system runs without PC/software control

- Effective microphone management with excellent sound quality
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- 6 language channels for simultaneous interpretation
- LCD display of conference and user-related information
- Up to 4 dome cameras can be supported to track the speaking delegate
- Three selectable microphone modes are available for delegate discussion:

OPEN - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. The delegate microphones more than the preset number cannot be activated and are unable to register a request to speak.

FIFO - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. On a FIFO (first in first out) basis, any delegate can override another delegate simply by activating the microphone, but cannot override the chairperson.

OPERATOR - allows to select the number of delegate microphones from 1 to 4 which can be simultaneously active. Up to 8 delegates more than the preset number can register a request and wait to speak, and can be switched off manually to cancel the request.

When the system functions with PC/software control

- Centralized microphone management
- Operator control over delegate request-to-speak list
- Chairperson/vice-chairperson units can be active at any time
- Chairperson unit can override/mute all the active delegate units
- 1/2/3/4 delegate microphones can be active simultaneously
- 6 language channels for simultaneous interpretation
- Delegate speaking time limit can be preset or controlled by operator
- LCD display of conference and user-related information
- Attendance registration using IC card or microphone button
- Dynamic registration mode and countdown registration mode
- LCD display of conference and user-related information
- Up to 4 dome cameras can be supported to track the speaking delegate
- HDD (Hard disk drive) conference recording can be done via PC/software
- Different voting types and options:
 - Parliamentary voting, ordinary election, multi-choice: YES / NO / ABST
 - Quick election: 1/2/3/4/5
- Dynamic voting mode or countdown voting mode
- First keypress valid mode or last keypress valid mode
- Voting results can be stored or printed out via PC
- Three microphone modes are available for delegate discussion:

Request to Speak - allows to set the number of simultaneous active delegate microphones from 1 to 4.

The delegate microphone cannot be activated until a registered request is allowed by the operator.

Wait to Speak – the first delegate to push the MIC button gets the floor and the other delegates have to wait in queue. Only one delegate is allowed to speak at one time.

Free to Speak – the first 4 delegates who request to speak can push to talk freely. The next one cannot be active until the last one is turned off.

TL-VDCB4100

Delegate Unit



TL-VXCB4100



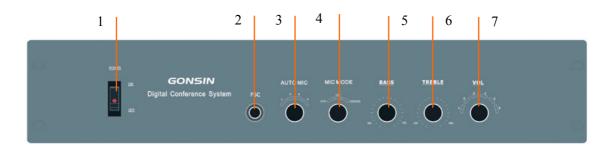
- Microphone is turned on/off via a push button
- YES/NO/ABST, 1/2/3/4/5 numeric keys for digital voting
- Up/down buttons for language channel selection
- High quality unidirectional electret condenser microphone
- LED red ring luminant to indicate active microphone
- Built-in chipcard reader for user identification
- Back-lit LCD screen for information display
- 3.5mm jacks for headphone & recording w/ level control
- Supports automatic video camera tracking
- Frequency response: 50Hz to 18kHz
- S/N ratio at 1mV input level: -95dB
- Sensibility: -46±4dB
- Power input: 24V DC
- Pick-up range: up to 60 cm
- Microphone stem length: 41 cm
- ABS base dimensions: 150x135x50 mm (LxWxH)
- Captive double-shielded cable with 13-p female connector: 50 cm
- Designed for portable or fixed tabletop mounting
- Chairperson unit with additional priority button to override/mute delegate units

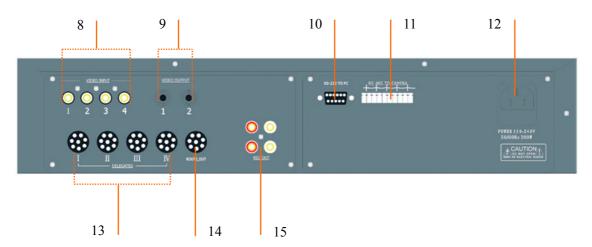
TL-Z1/TL-ZB1

Central Control Unit



- Master control & power supply unit with 19" rackmount chassis
- Master, treble, bass volume level control
- 3 operating modes can be selected on the front panel
- FSC function to prevent acoustic feedback
- 1/2/3/4 simultaneous active delegate units can be preset
- Connects conference units in up to 4 lines (8-pin connectors)
- Each line connects up to 15 contribution units
- RS-232 port for computer control
- RS-485 port for dome camera control
- Built-in automatic video matrix switcher
- Compatible with Pelco-P9600 and Sony-VISCA protocol
- 4 BNC sockets for AV input: 1Vpp 75Ω
- 2 RCA sockets for AV output: 1Vpp 75Ω
- RCA recording audio outputs: 0-2.8Vpp
- AC power requirement: 110/240V, 50-60Hz
- Maximum power: 300W
- Frequency response: 50-18kHz
- S/N ratio: -95dB/1mV
- Distortion at 1kHz: < 0.3%
- Operating temperature: -20 to 50^oC
- Dimensions: 423×90×320mm (W×H×D)





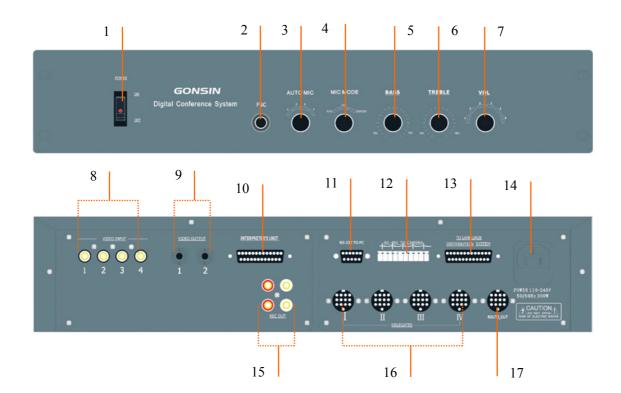
FRO	FRONT PANEL			
1	POWER	Switch for system power on/off		
2	FSC	Push button to prevent acoustic feedback		
3	AUTO MIC	Selection of 1/2/3/4 active delegate microphones		
4	MIC MODE	Selection of 3 microphone modes: AUTO / FIFO / OPERATOR		
5	BASS	Bass level control		
6	TREBLE	Treble level control		
7	VOL	Master volume level control (REC OUT level control)		
REA	REAR PANEL			
8	VIDEO INPUT	4 RCA inputs for video signals		
9	VIDEO OUTPUT	2 BNC outputs for video signals		
10	RS-232 TO PC	RS-232 port for computer control		
11	RS-485 TO CAMERA	RS-485 port for camera control		
12	POWER INPUT	Power supply input socket (110/240VAC, 50-60Hz)		
13	DELEGATES	8-p DIN connectors for delegate units in 4 lines		
14	ROUTE B	8-p DIN connector for extension control unit		
15	REC OUT	RCA audio outputs for recorder, mixer, amplifier, etc.		

TC-Z1/TC-ZB1

Central Control Unit



- Master control & power supply unit with 19" rackmount chassis
- Master, treble, bass volume level control
- 3 operating modes can be selected on the front panel
- FSC function to prevent acounstic feedback
- Simultaneous active delegate units can be preset
- Connects conference units in up to 4 lines (13-pin connectors)
- Each line connects up to 15 contribution units
- DB25 connectors for interpreter unit & IR/RF system
- RS-232 port for computer control
- RS-485 port for dome camera control
- Built-in automatic video matrix switcher
- Compatible with Pelco-P9600 and Sony-VISCA protocol
- 4 BNC sockets for AV input: 1Vpp 75Ω
- 2 RCA sockets for AV output: 1Vpp 75Ω
- RCA recording audio outputs: 0-2.8Vpp
- AC power requirement: 110/240V, 50/60Hz
- Maximum power: 300W
- Frequency response: 50-18kHz
- S/N ratio: -95dB/1mV
- Distortion at 1kHz: < 0.3%
- Operating temperature: -20 to 50 ℃
- Dimensions: 423×90×320mm (W×H×D)



FRO	FRONT PANEL			
1	POWER	Switch for power on/off		
2	FSC	Frequency shift function to prevent acoustic feedback		
3	AUTO MIC	Selection of 1/2/3/4 active delegate microphones		
4	MIC MODE	Selection of 3 microphone modes: AUTO / FIFO / OPERATOR		
5	BASS	Bass level control		
6	TREBLE	Treble level control		
7	VOL	Master volume level control (REC OUT level control)		
REA	REAR PANEL			
8	VIDEO INPUT	4 RCA inputs for video signals		
9	VIDEO OUTPUT	2 BNC outputs for video signals		
10	INTERPRETER UNIT	DB25 connector for interpreter unit		
11	RS-232 TO PC	RS-232 port for computer control		
12	RS-485 TO CAMERA	RS-485 port for camera control		
13	TO LANGUAGE DISTRIBUTION SYSTEM	DB25 connector for additional language distribution system		
14	POWER INPUT	Power supply input socket (110/240VAC, 50-60Hz)		
15	REC OUT	RCA audio outputs for recorder, mixer, amplifier, etc.		
16	DELEGATES	13-p DIN connectors for delegate units in 4 lines		
17	ROUTE B	13-p DIN connector for extension control unit		

ZJ-KR

Extension Unit

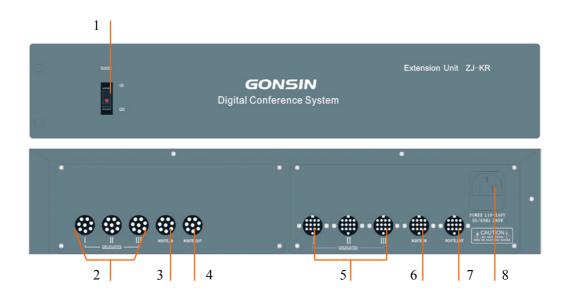
The ZJ-KR extension unit can support 45 to 60 delegate units in 3 or 4 lines. It connects the central control unit via a expander cable. Multiple extension units can be cascaded together to expand the system to 200 delegate unit.

Power Supply: 110/240VAC, 50-60Hz

Maximum Power: 300W

Working Temperature: -20 ℃ to 50 ℃

• 19" rackmount case dimensions: 423×90×320mm (W×H×D)



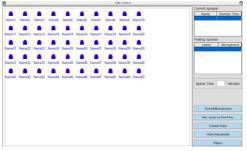
FRONT PANEL			
1	POWER SWITCH	Switch to turn on/off the power	
REAR PANEL			
2	DELEGATES	8p DIN connectors for delegate units in 3 lines	
5	DELEGATES	13p DIN connectors for delegate units in 3 lines	
3/6	ROUTE B IN	8p/13p DIN connector for extension unit	
4/7	ROUTE B OUT	8p/13p DIN connector for extension unit	
8	POWER INPUT	Power supply input socket	

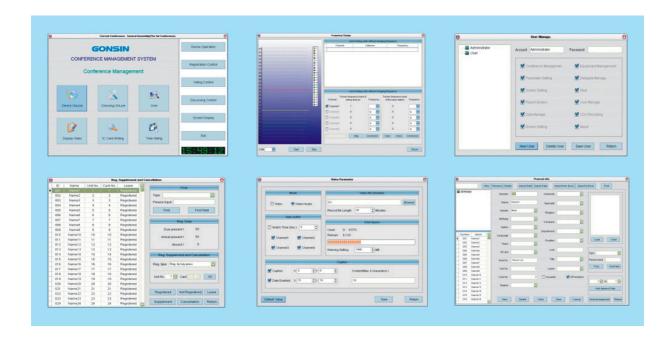
Conference Management Software V4.0

The following software modules are included

- Venue management
- Seating arrangement
- Conference management
- Delegate management
- IC card management
- Screen display
- Agenda management
- Registration management
- Motions/topics management
- Microphone management
- Voting management
- Video management
- Video camera tracking
- Audio/video recording
- Reports management







8PS/13PS Extension Cable

• Type: 8PS/13PS, double-shielded

• Connector: 8-p/13-p DIN, 1 x male, 1 x female

• Length: 3/5/10/15/20 metres



8P-T3 / 13P-T3 Connection Cable

Type: T-type, double-shielded

Connectors: 8-p DIN, 2 x male, 1 x female

Length: 2.7 metres (1.5m+1.2m)



8PS/13PS Expander Cable

Type: 8P-T/13P-T, double-shielded
Connectors: 8-p/13-p DIN, 2 x male

Length: 1 metre



RS-232 Serial cable

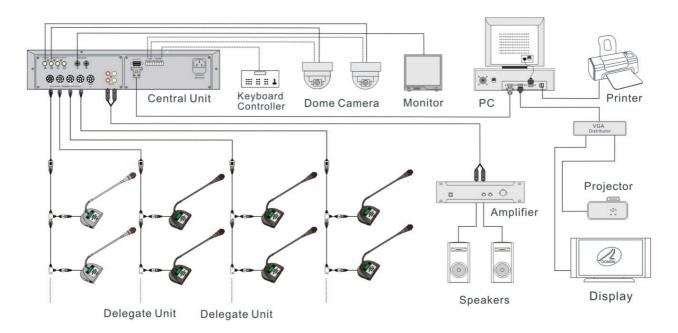
• DB9 connector, 2 x female

Length: 5 metres



System Configuration Diagram

TL-V4100 and TL-VB4100



System Configuration Diagram

TL-VC4100 and TL-VCB4100

