

# 09

## Conferencing and Discussion / Interpretation System

Wireless Conference System

Digital Conference System

I-Conference Discussion System

Wireless Interpretation System

I-Conference Automixer System



CS-W4T

CS-W4

Wireless  
Conference  
System



CS-W4

CS-W4/CS-W4T

2018 New

Wireless Conference System Receiver / Transmitter

CS-W4 is designed with JTS newest wireless and conferencing technology. It provides maximized compatible channels with a given bandwidth. Built in logic circuit provides conferencing feature. A microphone assigned with priority will work as a chairman unit. It overrides other microphones. Logic setting of one CS-W4R receivers can be cascaded. A microphone with priority in one receiver will also have priority in a cascaded system. JTS patented REMOSET synchronizes all four microphones simultaneously by push one button.

The microphone is of 108 MHz bandwidth. This feature allows more attendants to join the conference.

**Model:** CS-W4  
**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** 470~960 MHz  
**Frequency Setting:** 2.4G RF REMOSET  
**Channel:** 4  
**Bandwidth:** 36MHz  
**S/N Ratio:** >105dB(A)  
**T.H.D:** <0.6%@1KHz  
**Sensitivity:** -95dBm, S/N>80dB  
**CMRR:** >80 dB  
**Audio Frequency Response:**80Hz~16KHz±2dB  
**Antenna Connector:** BNC (Female)  
**Antenna Booster Power:** DC12V/100mA  
**Display:** LCD+LED  
**Controls:** Power ON/OFF, Group, Channel, Frequency, Sensitivity, Key Lock, Volume, Output Attenuation(XLR), Frequency Scan(ON/OFF), Antenna Power, Display Setting, Language, Remoset ID Number, Reoset Setting, Priority Setting  
**Audio Output Level:**  
Ref: ±22.5KHz Dev@1KHz Tone  
φ6.3 Phone Jack: -10dBV  
XLR Jack: -4dBV(Line), -24dBV(MIC)  
**Audio Output Level:** 600Ω  
**Squelch:** Pilot Tone & Noise Mute  
**Output Socket:**  
XLR Balanced Socket x5, φ6.3mm Unbalanced x1  
**Automixer Control:**  
8PIN MINI DIN Input, 8 PIN MINI DIN Output  
**Power Supply:** DC12~15V/1A  
**Dimension(mm):**  
485mm(W) x 45mm(H) x 260mm(D)  
**Weight:** 2.4 kg  
**Note:** Actual Product specifications may vary depending on model and region

**Model:** CS-W4T  
**Frequency Preparation:** PLL Synthesized Control  
**Carrier Frequency Range:** 470~960 MHz  
**Frequency Setting:** 2.4G RF REMOSET  
**RF Outputs:** Low / High  
**Stability:** <±10KHz@Fc  
**Frequency Deviation:** ±48KHz  
**Spurious Emissions:** <-50dBc  
**Display:** LCD  
**Controls:** Power ON/OFF, Talk, Group, Channel, Frequency, Sensitivity, RF Output, Key Lock  
REMOSET ID Pairing, REMOSET Setting  
**Battery:** UM3, AA x2  
**Rchargeable:** YES  
**Base Dimension:** 116mm (W)\*29 mm(H)\*138mm (D)  
**Weight:** 0.76 kg  
**Note:** Actual Product specifications may vary depending on model and region



CS-W4T

CS-120 Series

Digital  
Conference  
System



CS-120CU

CS-120CU

Control Unit

CS-120CU works as a main unit of the whole system. It provides all inputs and outputs needed to manage complex audio system. A single CS-120CU can be connected with 90 sets of CS-120CH and CS-120DU. With additional power unit CS-120EMU up to 256 sets can be connected.

This stand-alone system provides 4 types of conferencing mode, Open, Override, Voice and Apply.

\* It meets most conference requirement.

\* Voting function is also provided.

\* Large LCD screen provides detailed information. Soft-key design provides intuitive operation.

\* Maximum 4 video cameras can be connected to perform video tracking.

\* Free vide control software is provided.

**Microphone capacity:** ≤256  
**Voting:** Yes  
**Frequency response:** 40-16000Hz  
**SNR:** >80 dBA  
**Dynamic range:** >85 dB  
**Crosstalk:** >70 dB  
**Total harmonic distortion:** <0.05%  
**Mains power supply:** 110V or 220V AC  
**Original luput:** Ø6.4mm balanced:  
**LEVEL:** 0.775V  
**Audio input:** REC.IN:RCA x1  
**Original Output:** RCA x2  
**balanced:** XLR x 1 BAL.  
**Audio output:** REC. Output:RCA x 1  
**Output load:** >1 kΩ  
**Control interface:** RJ45 Ethemet, connecting to PC  
**Maximun power consumption:** 150W  
**connection:** Dedicated cable (7 PIN)  
**connector:** DIN7P with buckle

CS-120EXU

Power supply unit

This power supply unit is designed for CS-120 conference system.

When the number of delegate and chairman unit exceeds 90 CS-120EXU should be used in the installation to provide extra power.

**Supply voltage:** AC110Vor AC220V (default settings)  
**Number of connectable conference Units:** ≤90  
**Conference unit connector:** DIN7P  
**Maximum power consumption:** 200W



CS-120EXU

D7120-10 / D7120-20

Extension Cable

\* D7120-10: 10 meter cable with male/female connector at each end. Used for connection between control unit and delegate/chairman units.  
\* D7120-20: 20 meter cable with male/female connector at each end. Used for connection between control unit and delegate/chairman units.

Din 7 pin XLR-F / XLR-M  
Length: 10/20 M

D7120MM-1 /  
D7120MM-3

Extension Cable

\* D7120MM-1: 1 meter cable with male connector at both ends. Used for connection between control unit and extension power unit.  
\* D7120MM-3: 3 meter cable with male connector at both ends. Used for connection between control unit and extension power unit.

Din 7 pin XLR-M / XLR-M  
Length: 1/3 M



D7120MM-1 / D7120MM-3



D7120-10 / D7120-20

# CS-120 Series

Digital  
Conference  
System



CS-120DU

## CS-120DU

The Delegate Unit

The CS-120DU is the basic delegate unit. Under the control of CS-120CU there are 4 types of operation mode . 3 key voting function is available. Voting result can be read on the LCD screen.

There are two lengths of detachable gooseneck microphone and three types of capsules for choices to meet various requirements.

Ø3.5 mm earphone output and microphone input phone jack are provided.

**Model No:** CS-120CH / CS-120DU  
**Output frequency response:** 40-16000Hz  
**Earphone load:** >16 Ω  
**Earphone volume:** 10 mV  
**Earphone output:** Ø3.5mm stereo jack  
**Max. power consumption:** 1.65W(with 256x64 LCD)  
**connection:** 7P-DIN dedicated cable with buckle  
**Microphone Type:** Uni-directional electret condenser microphone  
**Sensitivity:** -46 dBV/Pa  
**Frequency response:** 80-18000Hz  
**Input impedance:** 2kΩ  
**Directivity 0°/180°:** >20 dB(1kHz)  
**Equivalent noise:** 25 dBA (SPL)  
**Maximum sound pressure level:** 125 dB (THD<3%)

## CS-120CH

The Chairman Unit

The CS-120CH has extra functions besides those CS-120DU has. There is a priority key which can either mute or turn off all delegate units, or cancel all applying. The chairman unit has the right to accept or refuse applying. Voting function can be initiated only the chairman unit. The timing is also controlled by the chairman. Voting result shown on all units will be clear.

In one installation only one CS-120CH chairman unit can be connected.

## CS-120CHE

The Chairman Unit

CS-120CHE is a simplified version of CS-120CH by removing voting function.



CS-120DUF

## CS-120DUE

The Delegate Unit

CS-120DUE is a simplified version of CS-120DU by removing voting function.

**Model No:** CS-120CHE / CS-120DUE  
**Output frequency response:** 40-16000Hz  
**Earphone load:** >16 Ω  
**Earphone volume:** 10 mV  
**Earphone output:** Ø3.5mm stereo jack  
**Max. power consumption:** 1W (without 256x64 LCD)  
**connection:** 7P-DIN dedicated cable with buckle  
**Microphone Type:** Uni-directional electret condenser microphone  
**Sensitivity:** -46 dBV/Pa  
**Frequency response:** 80-18000Hz  
**Input impedance:** 2kΩ  
**Directivity 0°/180°:** >20 dB(1kHz)  
**Equivalent noise:** 25 dBA (SPL)  
**Maximum sound pressure level:** 125 dB (THD<3%)

## CS-120DUF/ CS-120CHF

The Delegate Unit/The Chairman Unit

Both are flush mount design. All functions are the same as CS-120DUE and CS-120CHE but with more competitive prices.

**Model No:** CS-120CHF / CS-120DUF  
**Max. power consumption:** 0.7W (without 256x64 LCD)  
**connection:** 7P-DIN dedicated cable with buckle  
**Microphone Type:** Uni-directional electret condenser microphone  
**Sensitivity:** -46 dBV/Pa  
**Frequency response:** 80-18000Hz  
**Input impedance:** 2kΩ  
**Directivity 0°/180°:** >20 dB(1kHz)  
**Equivalent noise:** 25 dBA (SPL)  
**Maximum sound pressure level:** 125 dB (THD<3%)



CS-120CH



CS-120CHE



CS-120DUE

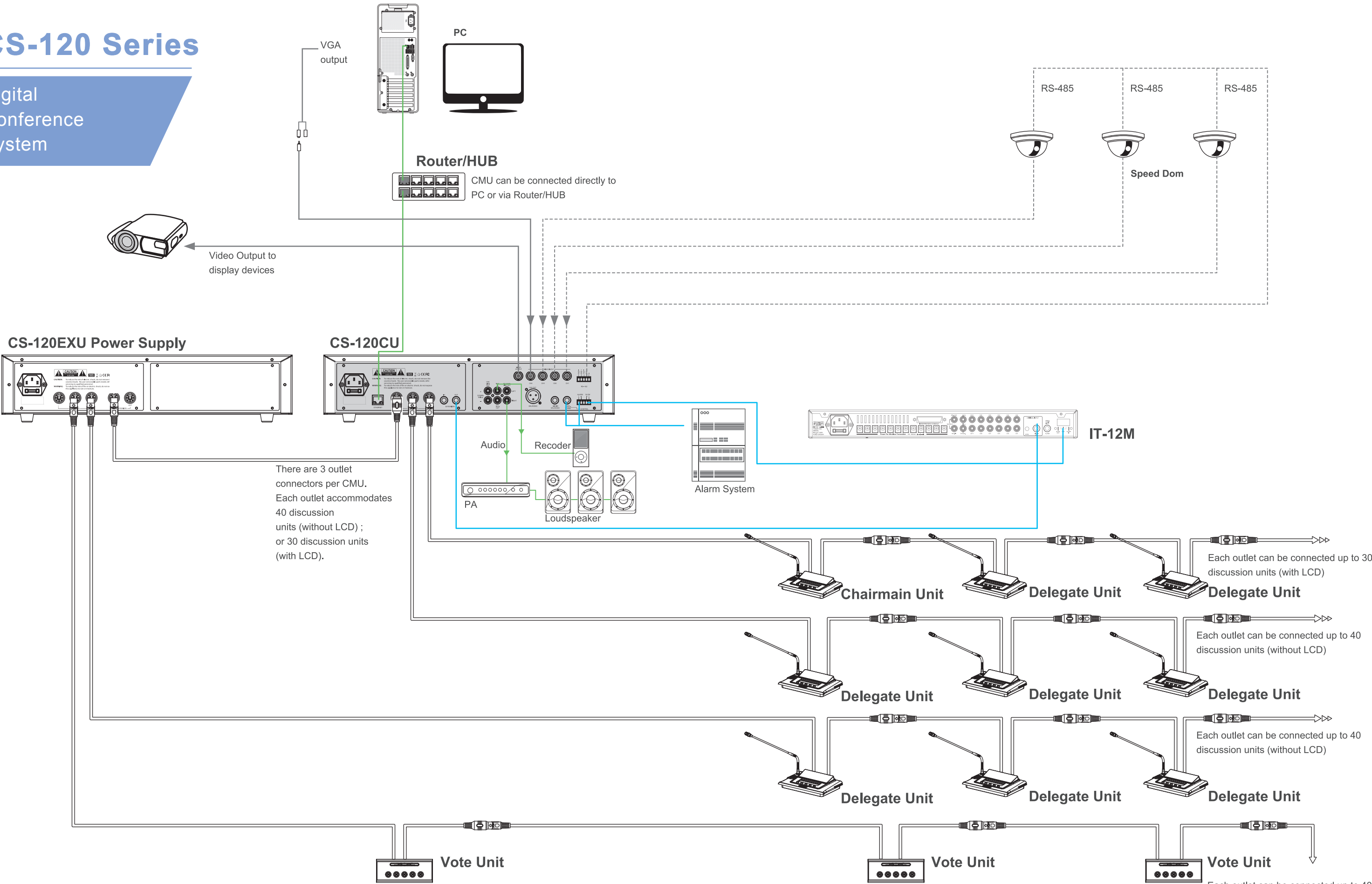


CS-120CHF



# CS-120 Series

Digital  
Conference  
System





CS-1 Series

I-Conference Discussion System



CS-1CUR

CS-1CUR

2018 New

Control and Power Supply Unit

CS-1CUR is designed with a USB recorder. The file format is MP3. One 32G USB memory stick can record over 150 hours. One hot key recording makes the job easy.

Input

Type: XLR

Mic: 4.7KΩ

Line: 20KΩ

Recording Function

Interface:

USB3.0 32GByte (Backward Compatible)

Format: MP3

MAX. Recording Time:

More than 240 hours (With 32GByte USB)

Controls: Recording ON/OFF button / Recording status LED display / Without Playback Function

MAX Gain: > 70dB

Frequency Respond: 35 ~ 20,000 Hz

THD% Input: <0.06%

Signal-to-noise ratio: > 70 dB

Input Attenuation: -50dB

Phantom Power: +48 V

Mic In Attenuation: -5dB /-10dB

Mic Attenuation: -10dB /-15dB /-20dB

Output Attenuation: -50dB

Voltage Output: +5 VDC ± 0.2V

Power Supply: 18VDC, 1A

Power Consumption: 18W

Fuse: T1AE 250V (Slow-Blow)

Weight: 2.3 kg

Dimension (mm): 420 (W) \* 44 (H) \* 198.5 (D)

CS-1CU

Control and Power Supply Unit

The innovative CS-1 i-Conference Discussion System is equipped with JTS in-house made ECM capsule, intelligent automatic mixing technology and integrated acoustic and mechanical design, providing Turn-Key solution and delivering consistently natural, feedback-free audio performance with any environment .

The i-Conference Discussion System is ideal for discussion and meeting with up-to 150 attendants.

A CS-1 i-Conference Discussion System consists of:

- One Control and power supply unit (CU).
- Maximum 150 delegate or chairman units.
- Peripheral audio and / or telecommunication equipment.

The control unit is the center of the discussion system which controls the microphones of the chairman and delegate units as well as connects to other audio input and output. It also supplies the power for the CU itself, and up to 50 chairman and delegate units.

The delegate unit enables the attendants to participate in a discussion by speaking through a microphone, controlled by a microphone ON / OFF pushbutton, and listening to discussion by the internal loudspeaker and external headphone. The chairman unit not only provides the same function as the delegate unit, but also supports the addition of a "Priority button", that enables the chairman to control the discussion by temporary or permanently overriding and deactivating all active microphones of the delegate units.

Voltage: VAC100-240 ~, 50/60Hz

Current consumption:

MAX 0.9A (100VAC) / 0.3A (240VAC)

DC supply to contribution units: ± 15V

Line, telephone coupler and insertion in / outputs (unbalanced)

Input sensitivity:

-14dBV / +11 dBV (nominal / maximum)

Input impedance: 33KΩ

Output level:

-14dBV / +11 dBV (nominal / maximum)

Output impedance: 500Ω

Recorder in / output (unbalanced)

Input sensitivity:

-20dBV / +5 dBV (nominal / maximum)

Input impedance: 47KΩ (for L & R channel)

Adjustment:

-20dBV / +5 dBV (nominal / maximum)

Output leve: +0 /-30dBV

Output impedance: 500Ω

External microphone input (XLR (F) balanced)

Input sensitivity: -56dBV

Adjustment: +6 DBV/-6dBV (nominal / maximum)

Phantom supply: 12V + /-1V, 2 \* 680Ω (± 2%)



CS-1CU



CS-1CH

CS-1DU

CS-1CH / CS-1DU

Chairman Unit / Delegate Unit

Model: CS-1CH / CS-1DU

Headphone output

Output level:

-8dBV / +2 dBV (nominal / maximum)

Output Impedance: 22Ω

System limits Number of delegate / chairman units connected to one control unit

Maximum in total: 50

Maximum per trunk output: 25

Maximum trunk length using CS-1:

standard cabling: 100m

Dimensions (HxWxD):

360 mm \* 150 mm \* 90 mm

Weight: 1745 grams

Gooseneck Microphone

Type: Back Electret Condenser

Frequency Response: 50 ~ 18,000 Hz

Polar Pattern: Cardioid

Max. SPL for 1% THD: 125dB

Gooseneck Length: 12 "(305mm)

Dimensions (HxWxD) without mic:

170 mm \* 115 mm \* 65 mm

Length of mic: 400 mm

Weight: 1100 grams

CS-1DUF/CS-1CHF

Delegate Unit / Chairman Unit 2018 New

CS-1DUF is a flush mount version of CS-1DU

CS-1CHF is a flush mount version if CS-1CH

Model: CS-1CHF / CS-1DUF

System limits Number of delegate / chairman units connected to one control unit

Maximum in total: 50

Maximum per trunk output: 25

Maximum trunk length using CS-1:

standard cabling: 100M

(Trunk1:50M+ Trunk2:50M)

Dimensions (HxWxD) with Mic:

501mm\*111.3 mm\*45.3mm

Dimensions (HxWxD) without Mic:

85.2mm\*111.3mm\*45.3 mm

Weight: CS-1CHF: 343 g (with Mic)

CS-1DUF: 338 g (with Mic)

Gooseneck Microphone

Type: Back Electret Condenser

Frequency Response: 50 ~ 18,000 Hz

Polar Pattern: Cardioid

Max. SPL for 1% THD: 125dB

Length of Mic: 422mm

Weight: 84g



D7P-10/D7P-20



D7PDM-1

D7PDM-1/D7P-10 / D7P-20

Din 7 pin XLR-M/XLR-M / Din 7 pin XLR-F/XLR-M

Length: 1M / 10M / 20M

CS-1EXM / CS-1EXS

Expansion Kit

CS-1 expansion kit, combined with D7PDM-1 extension cables, can expand the number of using units of i-conference discussion system from 50 to 150 by adding maximum two additional CS-1CU functioning as power supply units only.

The system is controlled by the master CS-1CU unit.

Using D7P-10 or D7P-20 extension cables to extend the operation distance.

Input: 7-pin DIN Connector

Output: 7-pin DIN Connector

Dimension (mm):

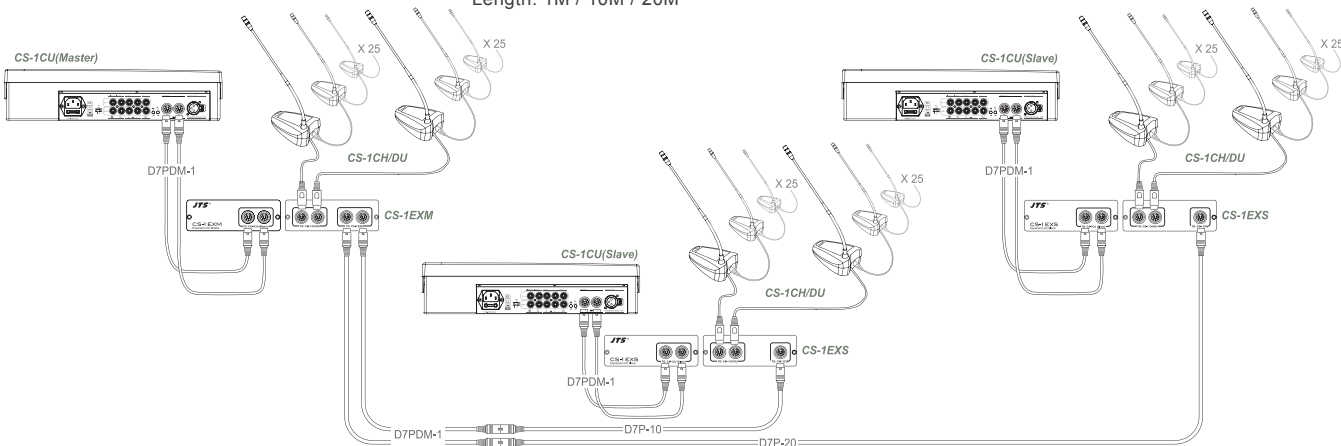
115mm (W)\*65mm (D)\*38mm (H)



CS-1EXS



CS-1EXM



# IT-12 Series

## Wireless interpretation System



IT-12M

### IT-12M / IT-12M4

#### Language Distributor

The IT-12 is designed to provide an open platform for any kinds of conference systems or devices demanding interpretation. Simply connect an audio output single to IT-12M as floor language the system will render 11 interpreters work simultaneously.

The IT-12M, language distribution unit, provides 12 audio output correspond to 12 languages. Together with TG-10STX UHF stationary transmitter and TG-10R / TG-64R personal receiver the system delivers 12 languages wirelessly to audiences.

IT-12M4 is a simplified version of IT-12M. It has 4 audio outputs, external switching power supply.

The system is good for:

- \* International Organisation
- \* Government building
- \* Corporate conference room
- \* School language lab
- \* Church

**Model:** IT-12M  
**Audio Input:** Ø6.3mm balanced, unbalanced Level: 0.775V  
Combo XLR Level: 2mV  
**Audio Output:**  
Floor Output: RCA \* 2 Symmetrical, RCA \* 10  
**Output Freq-Response:** 10 ~ 16,000 Hz  
**T.H.D.:** <0.05%  
**SNR:** > 75dBA  
**Crosstalk:** > 70dB (1kHz)  
**Dynamic Range:** > 85dB  
**Output Load:** > 1kΩ  
**Simultaneous Interpretation:** 25 pin D-SUB  
**Power Supply:** AC 110 ~ 220V  
**Power Output:** DC 12V/250mA \* 12  
**System Consumption:** 150W  
**Dimension (mm):** 421.6(W) \* 44(H) \* 213.2 (D)

**Model:** IT-12M4  
**Audio Input:** Ø6.3mm balanced, unbalanced Level: 0.775V  
Combo XLR Level: 2mV  
**Audio Output:**  
Floor Output: RCA \* 2 Symmetrical, RCA \* 6  
**Output Freq-Response:** 10 ~ 16,000 Hz  
**T.H.D.:** <0.05%  
**SNR:** > 75dBA  
**Crosstalk:** > 70dB (1kHz)  
**Dynamic Range:** > 85dB  
**Output Load:** > 1kΩ  
**Simultaneous Interpretation:** 25 pin D-SUB  
**Power Supply:** AC 110 ~ 220V/DC 15V  
**System Consumption:** 15W  
**Dimension (mm):** 421.6(W) \* 44(H) \* 213.2(D)

### IT-12D

#### Interpreter Console

On IT-12D, interpreter console, Relay function enables interpreters to hear up to 11 languages besides floor language. LED indicators show the occupied channel and channels which are available cross interpretation is available.

- \* Provide 11 output channels for foreign languages
- \* Relay function provided
- \* Cross interpretation
- \* Standby interpreter feature

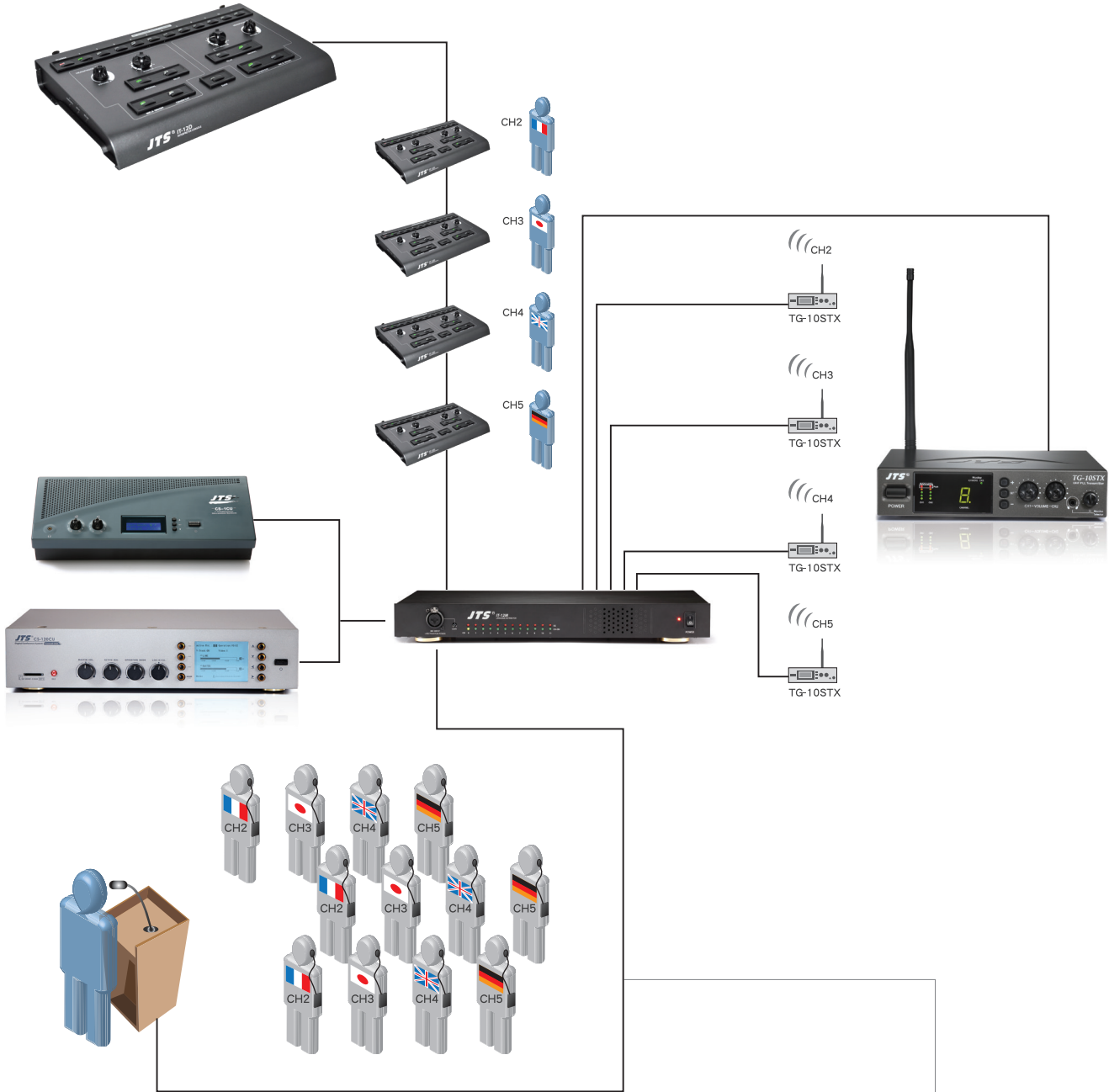
**Mic. Sensitivity:** -46dBV  
**Mic. Impedance:** 2kΩ  
**Mic. Freq-Response:** 80 ~ 16,000 Hz  
**Earphone Freq-Response:** 100 ~ 15,000 Hz  
**Earphone SNR:** > 70dBA  
**Dynamic Range:** > 85dB  
**Earphone Load:** > 16Ω  
**Unit Power Consumption:** 24V 80mA  
**Dimension (mm):** 330(W) \* 57(H) \* 206(D)



### IT-12 CABLE

#### 25 pin D-Sub Cable

C3:3m/C6:6m/C12:12m/C18:18m



IT-12M4



IT-12D



#### HPM-535 p31 Option

#### Multimedia Headset





CS Series

I-Conference  
Automixer  
System

CS-8

Automatic Microphone Mixer

The CS series microphone automatic mixers provide great convenience to sound reinforcement installation with any size and any combination. Full feature design includes

\* Daisy-chain with unlimited number of the mixer

\* Three operation modes: one-channel-at-a time, all active or override

\* Switchable inputs accept microphones or line level devices

\* Switchable output levels between mic. And line level

\* Individual gain control and phantom power for each channel

\* Last In stays on for continuous ambience sound

\* Control voltage provided to trigger external device such as speaker switching and camera switching

The outstanding performance enables effective managing of multi-microphone installations including corporate boardrooms, conference rooms, government builds, houses of worship, classrooms.

Input	Output
Type: XLR	Type: XLR
Mic: 4.7KΩ	Mic: 300Ω
Line: 20KΩ	Line: 200Ω

MAX Output Level: > 17dB  
MAX Gain: > 70dB  
Frequency Respond: 35 ~ 20,000 Hz  
THD%: <0.06%  
Signal-to-noise radio: > 70 dB  
Input Attenuation: -50dB  
Phantom Power: +48 V  
Mic In Attenuation: -5dB /-10dB  
Mic Attenuation: -10dB /-15dB /-20dB  
Output Attenuation: -50dB  
Voltage Output: +5 VDC ± 0.2V  
Power Supply: 18VDC, 1A  
Power Consumption: 18W  
Fuse: T1AE 250V (Slow-Blow)  
Weight: 2.25 kg  
Dimension (mm): 420 (W) \* 44 (H) \* 198.5 (D)



CS-4

Automatic Microphone Mixer

Power Supply: 16VDC, 100mA (The attached adapter, 12V, 600mA, isn't full-loaded, so it can provide enough voltage +16 VDC to the Automatic mixer.)  
Power Consumption: 4.6 Watt (include Adapter)  
Fuse: T0.5AE 250V

Impedance Input	Output
Type: XLR	Type: XLR
Mic: 4.7KΩ	Mic: 300Ω
Line: 20KΩ	Line: 200Ω

Maximum Output Level  
Line: > 17 dB  
Maximum Gain: > 70dB

Internal Controls  
Mic / Line attenuation: -50dB  
Phantom Power: +12V  
Pad: -10dB  
MIC Attenuation: -10dB, -15dB, -20dB  
Output Attenuation: -50dB  
Frequency Response: 35~20,000Hz  
THD% Input (1 KHz-50dB): <0.06%  
Signal-To-Noise Ratio: >70dB  
Voltage Output: +4VDC±0.3V  
Weight: 1.41 kg  
Dimension (mm): 212 (W)\*44 (H)\*212 (D)



D8P-1

Extension Cable

Din 8 Pin Male / Male Cable

Length: 0.8 M

