

# CS-120 DIGITAL CONFERENCE SYSTEM

After careful research of international conferencing standards and requirement JTS Professional has developed the CS-120. The CS-120 is a digital controlled system designed for large venue. The digital control technology assures stable signal level over large installation. Maximum 256 delegates unit CS-120DU and chairman unit CS-120CH can be daisy chained.

The CS-120 is a stand-alone system. Voting function is provided while computer software is provided to enable video tracking.

JTS IT-12 Interpretation System is a perfect supplement to the system. Maximum 12 languages can be handled.

JTS TG- series wireless tour guide system completes multi language distribution.

Reliability is always a concern in installation. Having specialized in audio for more than 30 years and experience in communication and automobile industry, JTS Professional has accumulated rich expertise in manufacturing of reliable and durable products.



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.

**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 linput: Ø6.4mm balanced:  
LEVEL:0.775V  
**Audio input:** REC.IN:RCA x1  
Original Output:RCA x2  
balanced:XLR x 1 BAL.  
**Audio output:** REC. Outpuy:RCA x 1  
**Output load:** >1 kΩ  
**Control interface:** RJ45 Ethernet, connecting to PC  
**Maximun power consumption:** 150W  
**connection:** Dedicated cable (7 PIN)  
**connector:** DIN7P with buckle

## 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-120CH

## 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.



CS-120DU

**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 256 x 64LCD)  
1W (without 256 x 64 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-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-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 \* 150 \* 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:** 15 "(400mm)  
**Dimensions (HxWxD) without mic:** 170 \* 115 \* 65 mm  
**Length of mic:** 400 mm  
**Weight:** 1100 grams



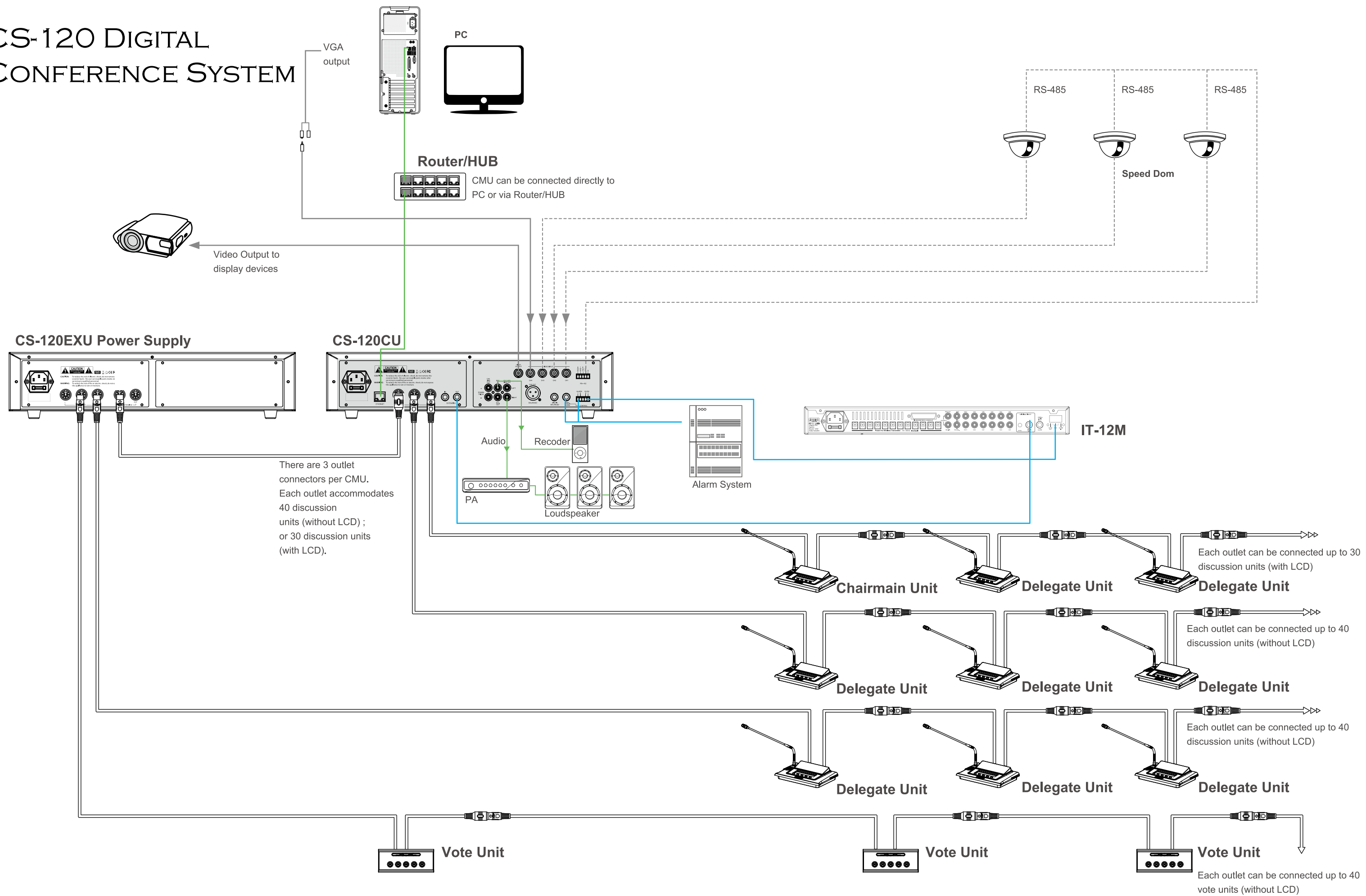
CS-1CU



CS-1CH

CS-1DU

# CS-120 DIGITAL CONFERENCE SYSTEM



### 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)

### D7P-10 / D7P-20

Extension Cable

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

### D7PDM-1

Extension Cable

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



CS-1EXM



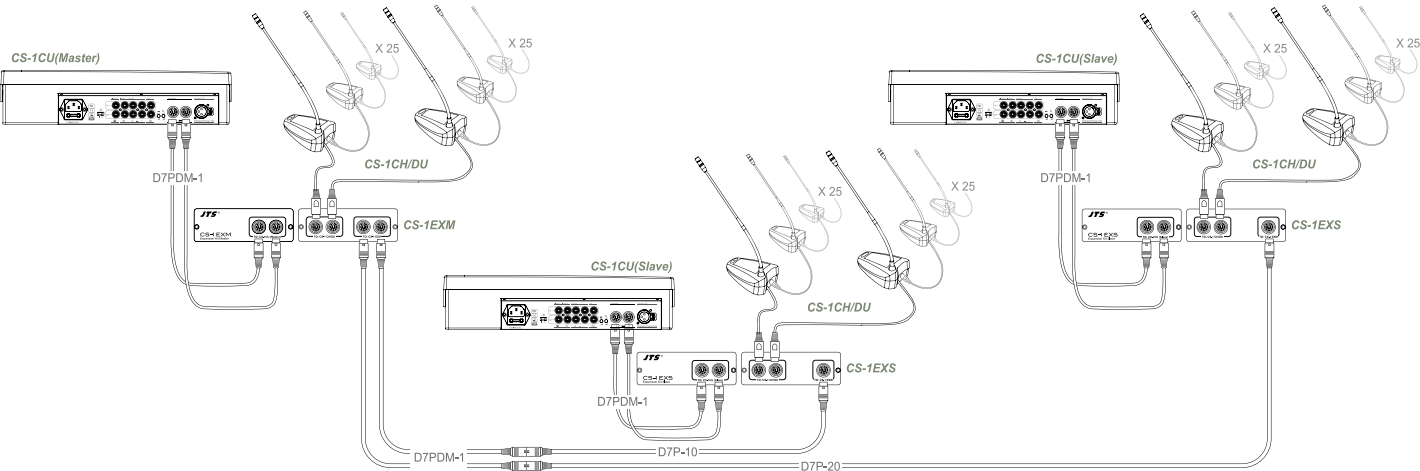
CS-1EXS



D7P-10/D7P-20



D7PDM-1



### 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 (m / m):** 421.6mm (W) \* 44mm (H) \* 213.2mm (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 (m / m):** 421.6mm (W) \* 44mm (H) \* 213.2mm (D)

### IT-12D

IT-12D

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 (m / m):** 330mm (W) \* 57mm (H) \* 206mm (D)



IT-12M



IT-12M4



IT-12D

### IT-12 CABLE

25 pin D-Sub Cable

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

### HPM-12

Professional Studio Monitor Headphone

### HPM-535

Multimedia Headset



IT-12 CABLE



HPM-12



HPM-535



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

Type: XLR  
Mic: 4.7KΩ  
Line: 20KΩ

Output

Type: XLR  
Mic: 300Ω  
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 (m / m): 420mm (W) \* 44mm (H) \* 198.5mm (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

Type: XLR  
Mic: 4.7KΩ  
Line: 20KΩ

Output

Type: XLR  
Mic: 300Ω  
Line: 200Ω



Maximum Output Level

Line: > 17 dB  
Maximum Gain: > 70dB

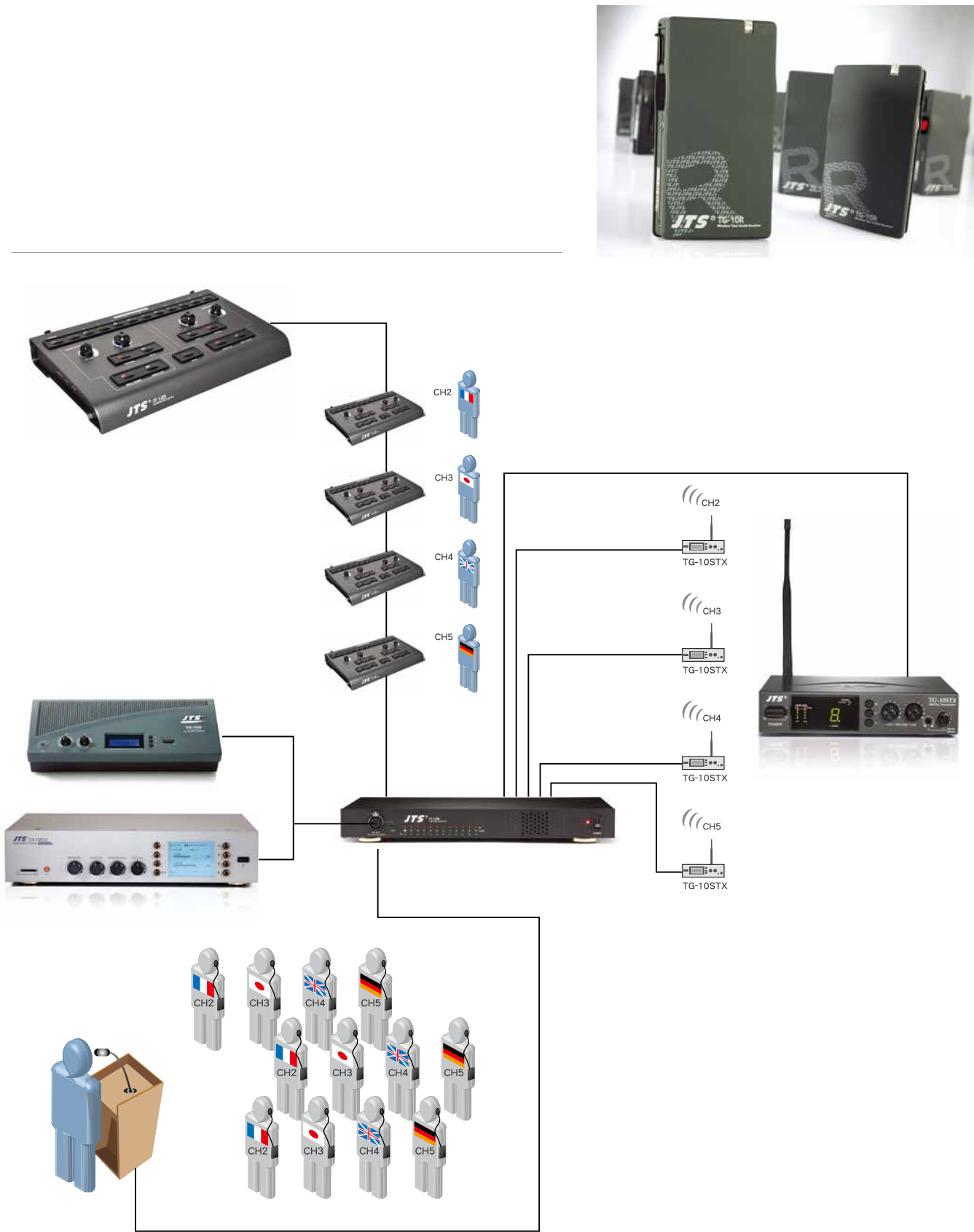
Internal Controls

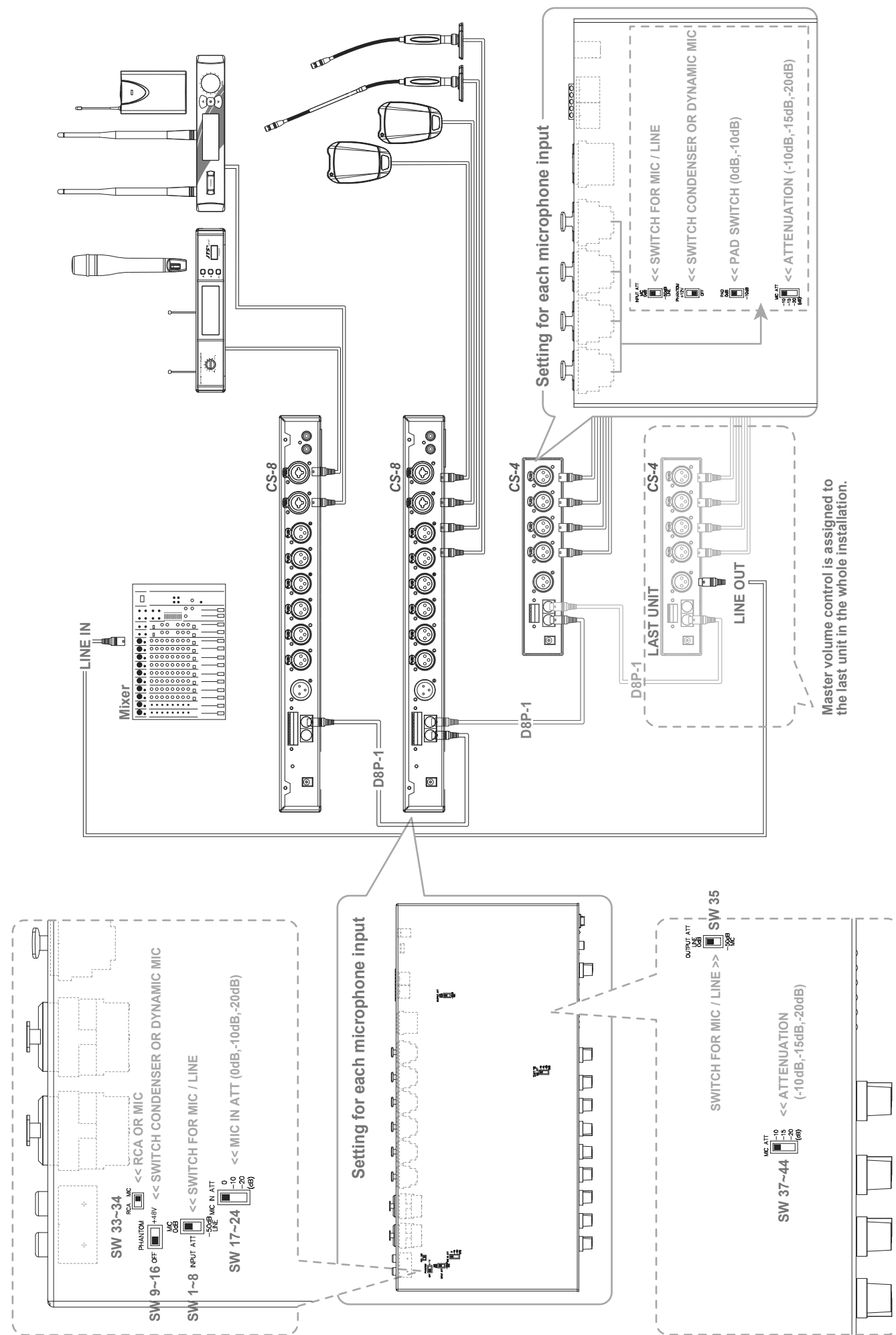
Mic / Line attenuation: -50dB  
Phantom Power: +12V  
Pad: -10dB  
MIC Attenuation: -10dB, -15dB, -20dB  
Output Attenuation: -50dB  
Frequency Response: 35~20,000Hz  
THD% Input (1 KHz-50dB): <0.06%  
Signal-To-Noise Ratio: >70dB  
Voltage Output: +4VDC±0.3V  
Weight: 1.41 kg  
Dimension (m / m): 212mm(W)\*44mm(H)\*212mm(D)

D8P-1

Extension Cable

Din 8 Pin Male / Male Cable  
Length: 0.8 M





## Portable Sound System

The AWA series provides all in one design. Up to four wireless receivers, CD player, built in digital Echo, rechargeable battery and 8 inch woofer with piezoelectric tweeter are just a few to mention. Solid and defined sound renders the AWAs good for professional and entertainment.

