

# MTS

Professional Multichannel  
Simultaneous Interpretation  
System with full relay.



US-based warranty  
& tech support



Designed to work when more than two target languages and full relay capabilities are needed, the MTS system provides superior sound quality and coverage range, combining multiple-channel transmitter and receivers, as well as multichannel interpreter consoles with full relay capabilities. It can be expanded by adding an unlimited number of receivers. More languages can be added by purchasing additional IC-12 consoles, transmitters, and interpreter headsets.

This system is designed to work from the simplest interpretation settings, where the floor language remains the same, to complex scenarios, where the floor language might change. By assigning one language per channel, it allows the audience to keep their headphones on at all times, always listening to their own language.

## Features:

- Expandable up to 6 languages in 72-76MHz band and up to 11 languages with other transmission technologies.
- Two-way interpretation.
- IC-12 console can accommodate two interpreters per language.
- Operating range of 500 ft (Expandable up to 1000ft.)
- Superb sound quality and reliability.
- Expandable to an unlimited number of receivers.

## Ideal for:



Multilingual  
Conferences



Meetings



Court  
Proceedings



# Components



## R-120 Receivers with headphones

- 20 user-selectable channels.
- Superb sound quality.
- LCD screen.

- Innovative and attractive design.
- Robust engineering for maximum reliability and durability.
- Small & lightweight.
- Multiple carrying options: (Belt clip, Neck strap & Velcro arm-band.)
- Channel lock feature.
- 100% digitally tuned.
- Long battery life (up to 55 working hours.)
- Limited lifetime warranty.



## IC-12 Interpreter Console

- Allows up to 11 consoles to be used in the same system.
- Powered by the CU-12 Control Unit through a single interconnection cable.
- True full relay function for professional multi-language simultaneous interpretation with 11-channel selector and "floor/relay" switch.
- Features (2) XLR microphone inputs, (2) 3.5mm microphone jacks and (2) 3.5mm stereo headphone jacks for combined headset/ mics.
- Speak slowly signal function.



## T-500 Transmitter

- 17 selectable channels in 72-76 MHz.
- Superb Audio Quality.
- Expandable transmission range of up to 1000ft with external antenna.
- Easy set up and operation.
- Broadcasts to an unlimited number of receivers.
- Multiple inputs and connector types.
- LCD display with backlight.
- Tabletop or rack-mountable.
- FCC/IC approved.
- Limited lifetime warranty.



## CU-12 Control Unit

- Open platform compatible with any RF, IR or FM language distribution system
- 11 target languages plus 1 floor channel.
- Powers the interpreter consoles IC-12 through the same daisy-chain interconnection cable.
- Automatic floor feed sent to unoccupied channels.
- Relay function for professional multi-language simultaneous interpretation.
- Balanced and unbalanced floor inputs
- 12 individual 15v outputs to power portable transmitters.



## EAR-120 Earphones

Dual earphones specially designed to optimize audio quality on R-120 receivers, featuring a 3.5 mm stereo plug.



## INT-SENMIC Interpreter Headset

- Interpreter Headset with two 3.5mm plug.
- Stereo headset with high quality audio.
- Passive noise-canceling microphone for clear conversation.
- Plug-and-play dual 3.5 mm jacks.
- Lightweight on-ear headset designed for comfort and the rigors of daily use.

# Accessories

## CAS-25 Carrying and Shipping Case



- Holds up to 25 Enersound FM receivers.
- Convenient compartment for headphones and other accessories including a desktop transmitter and microphone.
- Waterproof, impact resistant, crushproof, dustproof.
- Powerclaw™ latching system.
- Soft grip foldable handle.
- Lightweight NK-7™ resin & 100% stainless steel hardware.
- Automatic pressure release valve.
- Padlockable and stackable.
- Convuluted polyurethane foam on lid to gently secure items.
- Custom die cut polyethylene foam divisions.



## RM-502 Dual Rack Mount Kit for T-500

Allows to mount 2 Enersound T-500 FM transmitters on a standard 19" rack.



## RM-501 Single Rack Mount Kit for T-500

Allows to mount one Enersound T-500 FM transmitter on a standard 19" rack.

## ANT-501 Remote Antenna w/ 50' coax cable

Used with Enersound T-500 FM Transmitter when the transmitter must be placed in a different area such as an adjacent room from where the audience is located.



## EAR-102 Single Earphones

With gold-plated 3.5 mm stereo plug for R-120 receivers.





## ES-12-PB-8002

### Simultaneous Interpretation Mobile Booth for two interpreters



- Low noise Airvac fan units.
- Wide hinged door.
- Low accessible doorstep.
- Easy cable access.
- Interlocking extrusions for simple assembly.
- Soundproof sealing.
- Clear acrylic window design.
- Expandable panels.
- Stylish interior lining.
- Comfortable and solid working surface.
- Sturdy and low maintenance exterior.
- Meets ISO 4043-1998.

## TTBooth Portable Tabletop Interpretation Booth

- Ideal for workshops and small meetings where space is limited.
- Fits one or two interpreters comfortably.
- Superior sound attenuation, lightweight and fully mobile.
- Easy to assemble with low operation costs.
- No special tools required for assembly.
- Open back air ventilation.
- Fits on top of a 6ft or 8ft table. (Table not included.)
- 1 Soft carrying case included.

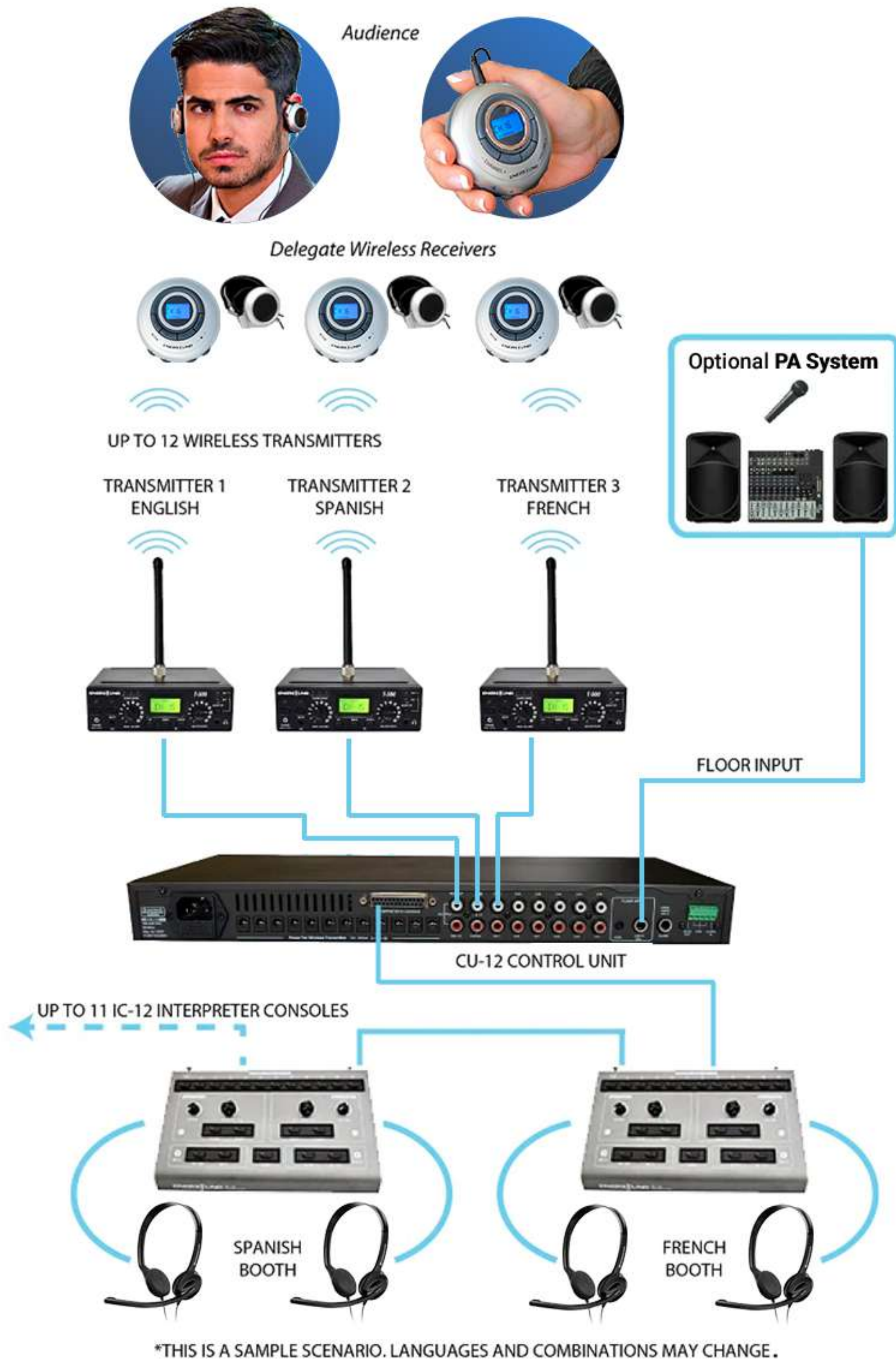


## ES-12-PB-8005 Congress ISO-Compliant Fully Enclosed, Sound-Proof Interpretation Booth



- Fits one or two interpreters comfortably.
- Provides acoustic separation between interpreters and conference participants allowing for a comfortable working environment.
- ISO-4043-2016 compliant.
- Ideal for simultaneous interpretation, meetings, and conferences.
- ((10) panels with QuickLock locking system.
- 1 Removable working table and rolling shipping case included.
- 6-volt Air extractor fan units.
- LX 350 LED lights with remote control.
- CO.2 GAZ detector.

# System Set-up





# Technical Specifications

## T-500 Transmitter

- Operating Frequency: 72.1-75.9MHz.
- Number of Channels: 17 Selectable.
- Frequency Deviation:
  - Selectable, Wide: +/- 75kHz or
  - Narrow: +/- 25 kHz (Max Deviation.)
- Frequency Accuracy: +/- 0.005%
- Transmitter Stability: +/- 20ppm.
- Output Power:
  - Hi: 80,000uV/m at 3m.
  - Low: 40,000uV/m at 3m.
- Antenna: 50 ohm rubber ducky antenna or optional remote antenna.
- Antenna Connector: Modified TNC.
- Compliance: FCC part15, Industry Canada.
- Frequency Response: 100Hz ~15KHz
- Signal to Noise Ratio: 70db.
- System Distortion:<2%(THD) at 80% dev.
- Audio Input 1: 3-Pin XLR and ¼" (TRS) combination jack for MIC or LINE level Balanced or unbalanced. Nominal input level 0/56dbu (0.77V/1.3mV) (line/mic). Phantom Power:12VDC PIN 2&3 on XLR or Tip and Ring on ¼" TRS Jack.
- Audio Input 2: RCA Jack, unbalanced Line Level -10dBu nominal, 100KΩ.
- External Monitor In: RCA Jack, unbalanced, Line Level -10dBu nominal, 100KΩ.
- REC Output: RCA Jack, unbalance output, Line Level -10dBu nominal, 10 ohms.
- MIC Input: Front panel: 3.5mm 1/8" TRS jack, supplies +DC on tip for electret mics.
- Audio Processing:signal compression 2:1.
- Headphone Out: 3.5mm stereo TRS jack, adjustable output level, Max Power 61mW @8ohm, Impedance: 4~16ohm.
- Power Supply: In:100~240VAC, 50-60Hz., Out:15VDC, 1A. Connector: 5.00mm OD, 2.5mm ID, barrel type.

- Temp. Operation: 23F to + 104F.
- Temp. Storage: -4F) to + 140F.
- Humidity: 0~95% Relative Humidity.
- Dimensions (DxWxH): 5" x 5.5" x 2.36"
- Unit Weight: 1.2 lbs. (0.54 Kg.)
- Shipping Weight: 2.2 lbs. (1.1 Kg.)
- Rack Mounting: 1 1/2 rack space height, 1/2 rack space wide. One or two transmitters can be mounted in 1 1/2 rack space with optional rack mounts RM-501 or RM-502.

## R-120 Receivers

- Batteries: (2) alkaline AAA (1.5V x 2) Or (2) NiMH AAA rechargeable.
- Battery life:
  - Up to 55 hours of use w/alkaline batteries.
  - Up to 40 hours w/NiMH rechargeable.
- Number of channels: 20 user-selectable.
- Frequency range: FM 72.0 to 76.0 MHz.
- FM deviation: +/- 75 KHz.
- De-emphasis: 75 uS.
- Sensitivity: 1.12 uV at 12 db SINAD.
- Signal to noise ratio: 55 db at 100 uV.
- Audio frequency response: 80 Hz to 12 Khz.
- Audio power:33 mW +33 mW at 32 ohms.
- Audio connector: 3.5mm stereo phone jack.
- Current consumption: 22 mA nominal.
- Dimensions: 3" Diameter,1.22" High
- Weight without batteries: 2.3 ounces (65g.)

# Tech Specs

## CU-12 Control Unit

- Power supply 110-240Vac.
- System consumption 90W.
- DC power output +15V/0.3A x12.
- D-SUB power output DC+15V/2A.
- Line In sensitivity -30dB±2dB LEVEL VR at MAX.
- Alarm In sensitivity -20dB±2dB.
- MIC In sensitivity -51dB±2dB Gain VR at MAX.
- Alarm Ctrl Shorted to GND.
- Slow output +12V, 1sec Pulse.
- CH0~CH11 output level 180mV±20mV.
- CH0 balance output level 85mV-GND 85mV±10mV.
- REC OUT output level 170mV±15mV.
- REC IN input level -25dB±2dB.
- Protocol RS-485.
- Dimension (LxWxH) 16.57" x 8.38" x 1.7"  
(421mm x 213mm x 44mm.)
- Color Gray.

## IC-12 Interpreter Console

- Unit power DC+15V.
- Unit power consumption 100mA±10mA.
- MIC sensitivity -45dB±2dB.
- XLR MIC sensitivity -45dB±2dB.
- Earphone max output level 30mW+30mW at 32Ω.
- REC OUT output level 140mV±10mV.
- Protocol RS-485.
- In/Out interface D-Sub 25P plug and socket.
- Dimension (LxWxH) 13" x 8.1" x 2.2"  
(330mm x 206mm x 57mm.)
- Color Gray.
- Weight: 5.5 lbs (2.5 Kg.)

# Available packages

## MTS-25 (25-person)

[SHOP MTS-25](#)

- (25) Enersound R-120 Digital FM Receivers with LCD screen (no backlight.)
- (25) Enersound Double Earphones for Audience.
- (3) Enersound T-500 17-Channel Base Transmitter.
- (4) Interpreter Headset with Microphone.
- (1) CU-12 Control Unit.
- (2) IC-12 Interpreter Console.
- (2) CBL25-6 25-pin 6m cable for IC-12 Interpreter Console.
- (3) 6-feet 1/4" TS Plug to RCA cable.

## MTS-50 (50-person)

[SHOP MTS-50](#)

- (50) Enersound R-120 Digital FM Receivers with LCD screen (no backlight.)
- (50) Enersound Double Earphones for Audience.
- (3) Enersound T-500 17-Channel Base Transmitter.
- (4) Interpreter Headset with Microphone.
- (1) CU-12 Control Unit.
- (2) IC-12 Interpreter Console.
- (2) CBL25-6 25-pin 6m cable for IC-12 Interpreter Console.
- (3) 6-feet 1/4" TS Plug to RCA cable.

## MTS-100 (100-person)

[SHOP MTS-100](#)

- (100) Enersound R-120 Digital FM Receivers with LCD screen (no backlight.)
- (100) Enersound Double Earphones for Audience.
- (3) Enersound T-500 17-Channel Base Transmitter.
- (4) Interpreter Headset with Microphone.
- (1) CU-12 Control Unit.
- (2) IC-12 Interpreter Console.
- (2) CBL25-6 25-pin 6m cable for IC-12 Interpreter Console.
- (3) 6-feet 1/4" TS Plug to RCA cable.

**Important:** Packages can be customized for other quantities.