

MOTWANE PRIVATE LIMITED

Specialisation

Motwane specialises in Conference Communication Systems and related facilities such as Professional Audio Systems, Public Address and Paging, and Simultaneous Interpretation Systems.

Technology

Motwane is dedicated to the application of the latest state of the art technology in the achievement of excellence and today the product range is not only the most technically sophisticated but also the most flexible.

Infra-red technology also features strongly in the product range. The latest multi-channel wireless audio distribution system.

Customising

A substantial part of the Company's output is customised and the extreme flexibility of the product range and the manufacturing facilities enable almost any variation to be supplied.

Most custom requirements are limited to architectural features. We undertake changes in facilities or operating modes and to create applications specify software.

Products and Application

- Automatic Discussion Systems provide immediate sound reinforcement in Meeting Rooms, and in Company Board Rooms.
- Micro-processor controlled Conference Systems provide control of meeting for Council Chambers and in multi-purpose conference halls.
- Computer Controlled Integrated Microphone, Voting, and Card-Reader Systems provide the most sophisticated facilities for large chambers and Conference Centers.
- Micro-processor controlled Simultaneous Interpretation Systems can be either portable or permanent.
- Many products have wider applications outside the conference room, such as for Courtroom Systems, Hotel Meeting Rooms, Art Galleries, Museums and tourist attractions.

Services

Motwane is primarily a specialist Systems Design a Manufacturing organisation which can supply complete systems as a package. All systems are designed and built to individual order. Full documentation, including cable and installation data is provided by the supplier and factory engineers are available to assist on site.

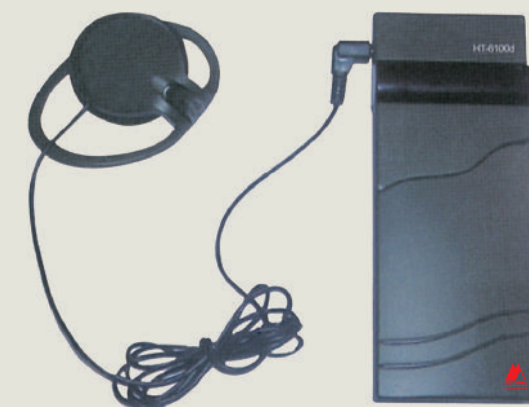
For those users who do not sub-contract, Motwane can fulfil the overall requirements for supply and installation.

Motwane has proud record for after-sales service. First-line service facilities are always provided through factory trained regional offices and factory engineers are on stand-by to support any user with serious problem.

IR Receiver HT-6100d

IR Receiver HT-6100d

- Smart configuration and modern style appearance conforms to ergonomics.
- 6 language channel selection.
- No interference between channels.
- Easy to operate.
- Elegant configuration.
- Rechargeable battery, 40 hours working time.
- Equipped with earphone / volume control.
- Receiver units has no limitation within IR radiation range.



HT-6100d

Wired Simultaneous Interpretation System



HT-700z

HT-700z

- Suitable for interpretation conference, 5 + 1 language channels.
- Designed by the latest digital technology and CE standards.
- Four groups of 9P-DIN plugs for system connection.
- Each circuit can support 50 receiving units.
- Power supply : AD220V

HT-700Y Interpreter unit

- Designed by digital technology in accordance with IEC914 and ISO
- Totally 6 channels, includes the original floor channel.
- The system power supply for the interpreter unit is provided by the Main frame at 12V safe voltage.
- Unidirectional electret MIC and HIFI speaker.
- Voice adjustable with prevention of feedback.
- Digital display of channels.
- Equipped with a set of earphone.
- Interpreter's cough switch.
- Frequency Response: 100-16000Hz
- Sensitivity : 44 ± 2dB
- ON/OFF button on the microphone.



HT-700Y Interpreter unit



HT-907d Delegate unit and receiver unit

- Designed by digital technology in accordance with IEC914 and ISO
- RJ45 plugs for T-type connection.
- The system power supply for all the delegate units is provided by the Main frame at 12V safe voltage.
- Totally 6 channels, includes the original floor channel.
- Digital display of channels.
- Digital adjusting the volume of earphone.
- Embedded (optional).

The Simultaneous Interpretation System is also micro-processor controlled. Offering the user considerable flexibility in operating procedures. Channel routing can be preset or be under the control of the interpreters, and the interlocks between channels can be varied. The system can be portable or fixed and the interpreters desks comply with ISO and IEC Standards. Cabling is greatly simplified and the system connects on a bus principle using only audio cable and a data cable. Wireless distribution systems are more suitable for multi-purpose venues where the furniture is movable.

The Infra-red System offers more channels, better audio quality, and since the radiation can be confined it is particularly suitable for venues with divisible rooms or where multiple systems are in use in close proximity. It does, however, require the fixing of emitter panels in the ceiling or around the walls of the room.

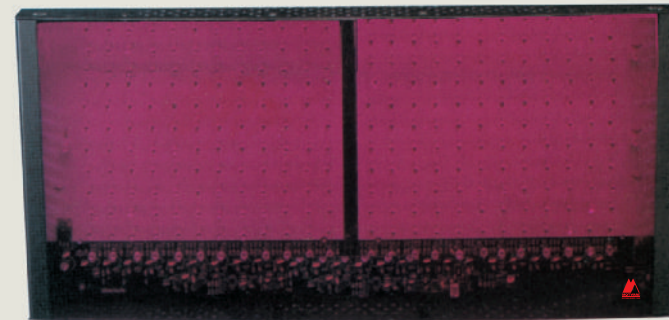
IR Language Distribution System

IR Transmit main unit HT-6100

- High security, without external interface.
- Suitable for any conference hall.
- Automatic level control function (AFC).
- Easy to operate and save in project cost.
- With the most advanced MODEM technology.
- Elegant configuration in accordance to ergonomics.
- Input channel direct function.
- 6CH interpretation.
- Self-test function, 6 kinds of testing voices for system test.



HT-6100



IR Transmitter HT-6100S

- Strong IR power transmission distance up to 40M(25W) or 15M(15W).
- 6CH uses the same IR Transmitter.
- 15W and 25W IR Transmitter.
- Half radiator angle: ± 22

HT-612Y

Simultaneous Interpretation-Interpreter Unit

- Designed by digital technology.
- Work with HT-EP210 (Interpreter's headphone)
- Easy to operate with single press.
- Voice adjustable and with feedback prevention.
- In case the interpreter does not understand the speaker's language, he could switch to other channel to listen other interpreter's voice and then interpret it.
- Delegate speak too fast, give request to "slow" speed.
- Automatic numbering on system units.
- Interpreter's cough switch.
- One interpreter's unit can be shared between two interpreters.



HT-612Y

PORTABLE SYSTEM

The portable units are useful for Board meetings or Enterprises where the discussion units provide microphone and fold back facilities to the committee members. The auxiliary microphone input allows an "audience - response" - microphone and telephone interface to be added. The central unit provides an output to the House PA System. The various fixed type units provide a ready made basis for custom Boardroom applications. The electronics package can be mounted remotely to permit any speaker configuration using custom panels built into the furniture.



HT7000Bc



Portable System : The portable systems are used in multipurpose rooms where the furniture is movable or where the room is only occasionally used for conferences. In purpose-built venues, a permanent cable network may be fixed in floor ducting or in the furniture with Delegate units plugging into the network wherever convenient.

Most smaller Meeting Rooms are used for open discussion and participants are usually allowed free access to speak in all but the smallest rooms, speech reinforcement is desirable and it is preferable that this is effective but unobtrusive and uses a distributed loudspeaker system.

The Automatic Discussion System offer a very convenient solution. In multi-purpose rooms the portable units can be quickly set up and connected without the necessity for any technical skills. The individual loudspeakers built into the microphone units provide local sound reinforcement and the central unit has audio outputs for recording.

The self-cancelling facility is a useful extension of the normal manual switching mode which automatically switches off the microphone when the speaker has finished.

BOARDROOMS



Portable System HT-7000B / HT-7600

Main Features:

Controller :

- Designed in accordance to ISO and IEC914
- Single, Multiple and many groups can be used simultaneously.
- Equipped with three groups of 9P-DIN plus for system connecting normally it's workable for 35 units in each circuit. The system can be extended to 200 units at most.
- Built-in feedback reduction circuit.
- Built-in telephone interface for telephone conference.
- "MIC on" restriction : 1/5/open configurable.
- Red indicator light on the MIC.
- Auto-off function :The microphone would close automatically in 35 seconds if there is no speech.
- Equipped with balanced circuit output socket. Unbalanced circuit output socket and both sides circuit output socket for connecting other kinds of equipment.
- Power Consumption : 115W



Chairman unit (HT-7000Bc/HT-7600c/HT7000Ac)

- Priority facility.
- Frequency response: 100-16000Hz
- Sensitivity : -44±2dB
- Priority & ON/OFF button.

Delegate unit(HT-7000Bd/HT-7600d/HT7000Ad)

- Frequency response: 100-16000Hz
- Sensitivity: -44±2dB
- ON/OFF button on the microphone.



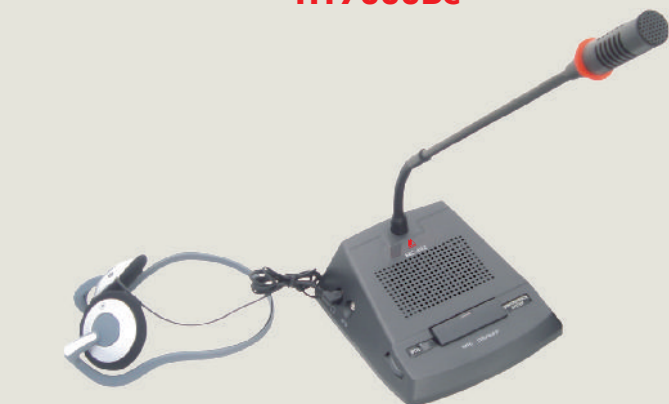
HT7000Bc



HT-7000Ad



HT-7000Ac



HT7000Bd



HT-7600d



HT-7600c

Embedded System HT7000A

D. Computer

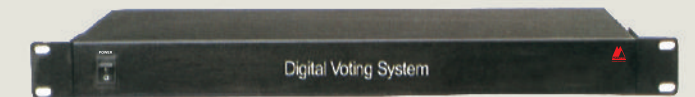
1. Display
The system connects to corresponding display device, & indicates the meeting process clearly, such as meeting topic, Discussion topic, Vote content , voting process and voting results etc.
2. Print
The system can print out the vote result.
3. System management
The system has perfect self-check and management function. It can check the working status to find out mistakes and have it revised. The operator can control all the units.



HT-8000B
HAND ELECTRICAL VOTING UNIT



HT-8000
TABLE ELECTRICAL VOTING UNIT



HT-8000 VOTE CENTRAL PROCESSOR

VIDEO CAMERA AUTO-TRACK SYSTEM

High-speed dome Features

- 18xAuto Focus Lens : Built-in 18X optical lens with a focal length of 4.1~73.8mm.
- Fast Rotation : The 360 degrees seamless rotation can rotate at up to 254 degrees per second; can rotate vertically at 80 degrees per second with a vertical range of 95 degrees.
- 65 Pre-set Angles : Can be programmed and stored for convenient monitoring anytime.
- Up to 63 cameras : Up to 63 speed dome cameras can be connected.
- Automatic control and Manual Control Shutter white balance, back light compensation and AGC be set for automatic or manual.
- Auto Monitor Mode : Automatically rotates to the preset angles for monitoring.
- RS-485 Communication Interface : used for camera control.
- Low illumination and High Sensitivity: Can operate in illumination as low as 0.15 Lux.



HT-EV1



HT-8008

HT-8008 VIDEO CAMERA AUTO-TRACK CENTRAL PROCESSOR

- ★ Designed by the latest digital technology.
- ★ Support many kinds of cameras.
- ★ 256 video camera auto-track control points.
- ★ Support many kinds of cameras (Build-in 4 cameras, it can expand to 8)
- ★ The central processor can communicate with the equipments via Rs232 jack, such as computer or video switching Matrixes. Via RS 232 Jack.
- ★ Support many kinds of meeting mode: free discussion mode, FIFO mode, and speech-limit mode.
 - a. Free discussion mode : all the representatives can give a speech.
 - b. FIFO mode : first in, first out.
 - c. Speech-limit mode : MIC1~19 limit.
- ★ Build-in video switching matrixes (4 input, 1 output).
- ★ The power and date communication socket are connected with mainframe by 8P-DIN plug.

HT-7200 HT-7100 Main Features:

- Designed in accordance to ISO and IEC 914
- Furnished with vote and sign in function.
- Embedded and portable configuration is optional (HT 7100).
- The system can support 70 units and can be extended upto 200 units with additional power supply.
- Equipments are easy to connect and maintain.
- Build-in telephone interface for telephone conference.
- Unidirectional electret MIC and crisp voice loudspeaker.
- The system automatically calculates vote results and stores into database.
- Self-check: Auto check on working status to find out mistakes and have it revised.
- Vote manner : yes/no/abstain.
- FIFO mode : first in, first out.
- Can be used with computer and video camera to make video Camera auto-track.
- Build-in feedback reduction circuit and volume control.



DIGITAL VOTING SYSTEM

1. SYSTEM DESCRIPTION

This voting system is suitable for any Congress, Legislative, Enterprises. The delegates can register, vote, elect, and participate. This system is with multiple functions, reliable, steady and attractive designs.

2. SYSTEM COMPOSITION

Each central processor could connect up to 256 units. The system could be extended up to 4096 units. The system including software, central processor, delegate unit, IC-card, and computer, etc., adopt T-type connection for ease of installation.

A. Vote software

The system software is designed with security, reliability, convenience, and simplicity. All operating windows are very simple, the operator can control the state of vote units easily.

B. Central processor

The central processor provides power to the vote unit and collects voting data.

C. Vote unit

The vote unit has the following functions and characteristics (The functions of the vote unit may have some differences because of the models)

1). Identity

Each vote unit is furnished with a personal IC card for voting (The IC card No. Should be the same as the vote unit No.) All the delegate use the similar IC card, and can sign in IC card with any vote units.)

2. Sign in

The delegate "signs" in by IC card after taking a seat, The system provides IC card ID checking, only when IC card is inserted and the indicator lamp "ATTEND" on the vote unit is bright it will work.

3. Voting

There are three buttons on the vote unit: yes/abstain/no. Each button has a corresponding indicator lamp. After voting starts, delegate can press the corresponding button. The delegate can re-vote before the voting finishing if they want to revise their vote; the voting results are subject to the button pressing till the last moment.

4. Parliamentary:

There are five buttons on the vote unit: candidate 1/2/3/4/5. Each button has the corresponding indicator lamp. After election starts, delegate can press the corresponding button. The delegate can re-vote before the voting finishing if they want to revise their vote; the voting results are subject to the button pressing till the last moment.

5. Audience response (Optional)

Portable System

HT-3300/HT3200

HT3000

Main Features :

Controller :

- Designed in accordance to ISO and IEC 914
- Single, multiple and many groups can be used simultaneously.
- Normally it's workable for 35 units in each circuit. The system can be extended to more than 200 units.
- Built-in feedback reduction circuit.
- Built-in telephone interface for telephone conference.
- MIC on number restriction : 1/5/open configurable.
- Auto-off function :The microphone would close automatically in 45 seconds if there is no speech.
- Equipped with balanced circuit output socket. Unbalanced circuit output socket and both sides circuit output socket for connecting other kinds of equipment.
- T-type connection, easy to install.

Chairman unit (HT-3200c/HT-3300c/HT-3000c)

- Priority facility.
- Frequency Response :100-16000Hz
- Sensitivity :-42±2dB
- Priority button on the microphone.

Delegate unit (HT-3200d/HT-3300d/HT-3000d) - Portable

- Frequency Response : 100- 16000Hz
- Sensitivity :-42±2dB
- ON/OFF button on the microphone.

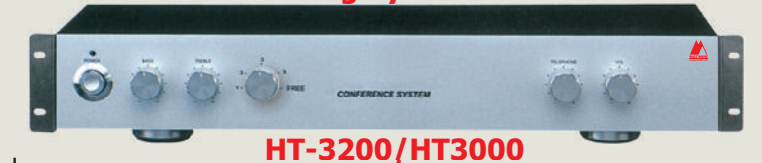
HT-7000c Main Features

1. Equipped with three groups of 9P-DIN plugs for system connecting, normally it's workable for 25 units in each circuit. The system can be extended to 500 units at most.
2. Power supply : AC220V
3. Power consumption : 50W
4. Equipped with balanced circuit output socket, unbalanced circuit output socket for connecting other kinds of equipment.
5. The system works with external amplifier/speaker.

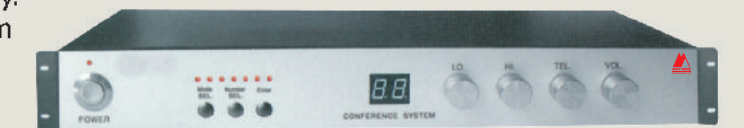
Chairman unit (HB-250c)

1. Frequency Response : 40-16000Hz
2. Sensitivity: -40 ± 20dB
3. Excellent speech quality.
4. The system power supply for all the delegate units is provided by the main frame at 18V safe voltage.
5. Chairman unit could control the whole process of the conference via the priority switch.
6. Red indicator light on the MIC.
7. Electret microphone, equipped with windshield cover, extension shaft optional.

Analog System



HT-3200/HT3000



Digital System HT-3300



Embedded



HT-3200c/ HT3200d



HT-7000c

Delegate unit (HB-250d)

1. Frequency Response: 40-16000Hz
2. Sensitivity: -40 + 2dB
3. Excellent speech quality
4. The system power supply for all the delegate units is provided by the main frame at 18V safe voltage.
5. Red indicator light on the MIC
6. Electret type microphone, equipped with windshield cover. Extension shaft optional.



Many Council Chambers, large Boardrooms and multi-purpose rooms used for large conferences require remote control facilities for the microphones so that they can be switched on and off by an operator working under the instructions of the Chairman. This enables large meetings to be conducted in controlled manner and is essential in International conferences where Simultaneous Interpretation is used.

The micro-processor controlled Conference System is controlled remotely from a control console with push button switches and indicators. It can be used in Delegate control or Central control modes and requests are stored in queuing order with next speaker indication. For structured meetings, the AUTO control switches microphones sequentially in queuing order.

Legislative and International Conference Centers generally require full range of Facilities including Microphone and Sound Reinforcement System, Voting, Simultaneous Interpretation and ancillary systems such as CCTV, Archive Recording, Press Distribution Systems and Broadcast or Teleconference Interfaces. There is invariably an element of custom design required and in view of the interdependence of the various systems it is preferable that the whole is designed and supplied as a package.

The Integrated Microphone, Voting, and Card-Reading System is central to the technical facilities. It is computer controlled with an intelligent micro-processor based network of Delegate stations. The same electronics package provides all three facilities. The simplified cable post system enables portable systems to be set up quickly and connected without the necessity for any technical skills, and fixed systems do not require junction boxes or trunk splitters.

The system is software based. Speakers' name and requests are displayed on the video screen which may also be repeated at the Chairman's station.

The screen also displays the voting results and individual votes are recorded on a print-out. Speakers' name, voting results and messages can be displayed in the Conference Hall using alpha-numeric sign panels, and custom voting panels with individual results can also be provided. The card reader facility for delegate identification avoids the need for preassigned seating and also offers a security system to prevent unauthorised access to the system.

Portable System HT-7700

System HT-3100

Common Mainframe HT-7700/HT-3100

Main Features:

Controller :

- Designed accordance to CE, CB and CCC standards.
- The system power supply for all the delegate units is provided by the main frame at 24V safe voltage.
- Built in power supply device and signal amplifier can support more groups.
- The system can be extended to 150 units at most.
- Four groups of 9P-DIN plugs for system connection
- Can offer power and data communication socket for video processor
- Possess output socket for audio equipment.
- Can be offered with or without voting facility.
- Equipped with BALANCE socket for connecting interface voting result device.
- Built-in telephone interface for telephone conference
- Built-in volume control
- Built-in 2 x 50W amplifier (100 W)
- Built-in monitor loudspeaker (1W)
- System volume control
- Equipped for AUX input socket, and the volume control
- Equipped for wired microphones input socket
- Equipped with nine LED audio frequency indicator lights
- Digital display and working mode indicator lamp on the panel
- Equipped with three buttons for choosing mode: set/mode/enter
- Power consumption : 550W
- Support the function of video camera auto-track.
- "MIC Auto-off" function



HT-7700/HT-3100

HT-7700c Chairman Unit HT-7700d Delegate unit

- Designed by the latest digital technology.
- 1.5m long cable with 9P-DIN plugs for system connection.
- High quality condenser cartridge equipped with windshield cover.
- The red indicator lamp shows the state of the microphone.
- When the microphone is on, the built-in loudspeaker and the neighbouring linking delegates loudspeaker are muted automatically to prevent feedback.
- Equipped with an earphone output jack and a RECORD output jack.
- Microphone has voting functions.
- Chairman override facility.

- Frequency Response : 100 -13 KHz
- Sensitivity: -44 ± 2dB

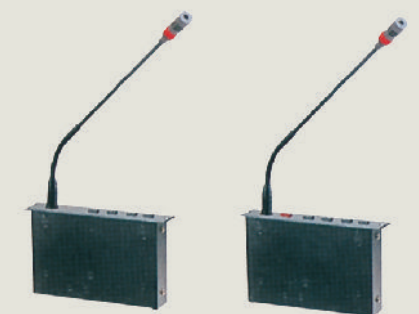


HT-7700d

HT-7700c

HT-3100c Chairman Unit / HT-3100d Delegate Unit Embedded System

- Chairman override facility.
- Equipped with an earphone output jack and wireless mic input jack.
- Indicative sound for chairman unit (optional).
- With voting functions.



HT-3100d

HT-3100c