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Since 1959

National Award Winner

Shri O.N. Gupta, Managing Director Receiving Prestigious NATIONAL AWARD for Outstanding Export Performance by Honb. Shri N. Sanjiva Reddy, President of India.

Shri O.N. Gupta, Managing Director Receiving Prestigious NATIONAL AWARD for Outstanding Export Performance by Honb. Shri B.D. Jatti, President of India.

Shri Upendra Gupta receiving NATIONAL AWARD for the year 2008 from Honb. Minister Shri. Dinsha Patel at New Delhi.

Shri Upendra Gupta Receiving NATIONAL AWARD from Honb. Shri Veer Bhadr Singh, Minister MSME For The Year 2010-11 at New Delhi

Shri Upendra Gupta Receiving National Award (Innovation) from Honb. Dr. Manmohan Singh (P.M.), For The Year 2012-13 at New Delhi

Shri. Upendra Gupta receiving NATIONAL AWARD for the year 2008 from Honb. Minister Shri. Dinsha Patel at New Delhi.

Shri D.N. Gupta, Managing Director Receiving Prestigious NATIONAL AWARD for Outstanding Export Performance by Honb. Shri B.D. Jatti, President of India.

Shri D.N. Gupta, Managing Director Receiving Prestigious NATIONAL AWARD for Outstanding Export Performance by Honb. Shri B.D. Jatti, President of India.

Shri D.N. Gupta, Managing Director Receiving Prestigious NATIONAL AWARD for Outstanding Export Performance by Honb. Shri B.D. Jatti, President of India.

Shri Aman Gupta receiving Award (Upcoming Make in India Company) From Dr. Harsh Vardhan Union Minister of science, technology and earth Science for the year 2016-2017.

Presented by Shri Suresh Prabhu, Hon’ble Union Minister for Railways.

For any enquiry mail us at mega@megaindia.net

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Mega PA system has been one of the leaders since 1959. Our State of the art production houses, Stringent Quality Tests, Timely deliveries, reasonable pricing structure and efficient after sales service contribute to our more than million of satisfied customers around the globe.

Mega won Seven National Awards for outstanding Export performance, Lean Manufacturing, Innovations And Entrepreneurship.

We cater to all types of requirements from small and medium gathering to large gatherings. Our equipments are used by reputed brand showrooms, factories, hotels and restaurants, educational institutions, research institutes, railways, police, religious places like temples, mosques, gurudwaras, churches, yoga classes, classroom lectures, auditoriums, sarvshikshaabhiyans in different states of India.

Mega is having certifications for ISO-9001:2015 (Quality control) as well as ISO-14001:2015 (Green Certification) our products and working do not harm the environment of our mother earth.

In amplifiers we have the manufacturing capacity from 30 watts to 1500 watts, Amplifiers with In-Built Mp3 Player , Portable sound systems which are widely accepted in India and abroad.

In microphones we manufacture highly sensitive microphone for professional use, PA microphones for everyday use and economy microphones for amateurs.

Our Range of Microphone includes Hand Held Microphones, Tie Clip Microphones, Podium Microphones and Head Microphones. In speakers we present a large variety metallic column speakers, wall speakers, wooden high wattage speakers, ceiling speakers.

By doing Consistent import substitution, Mega is on the path of Make In India Concept, Launched By Shri Narendra Modi (Prime Minister Of India).

Mega is been recognized by Shri Harshwardhan (Union Minister Of Science and technology) For the best upcoming Make In India company of India in the year 2016-17 and By Shri Suresh Prabhu (Union minister for Railways) for Best entrepreneurship efforts in Make In India In the Year 2017-18.

Now we are on the path of introducing ZED (Zero Effect And Zero Defect)
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Public Gathering
Convention Halls
Railway Stations
Temple
Masjid
Church

P.A. Amplifiers

MIA Series Amplifiers
P.A. Booster DJ Amplifiers
DJ Amplifiers
P.A. Twin Zone Power Amplifiers

P.A. High Power Mixer Amplifiers
P.A. Medium Power Mixer Amplifiers
P.A. Low Power Mixer Amplifiers
P.A. Mixer / P.A. Mobile Amplifier Cum Siren
This section consists of number of microphones which can work simultaneously or separately.

Separate volume control are provided for each microphone to adjust the volume as per the requirement.

Separate input jacks are provided for each microphone to accept unbalanced signal from a low impedance microphone.

Built in MP3 Player with remote control for USB, SD / MMC card reader.

MP3 Module has in built FM Player & Bluetooth Facility.

AUX is alternate to last microphone with the selector switch to OPT between the two.

**Microphone Section:**
- AUX: It is used to connect the mixer, CD player or the other pre amplifier. Its input sensitivity is 100 mV.
- CD Socket: It is used to connect an external CD player.
- Master: It is used to adjust the volume of all the inputs at the same time. It mainly controls the overall noise level output of the amplifier.
- Low: The low control is used for attenuating or boosting the signal level of low frequencies. It has a cut position and boost position to set the level of tones according to the requirement.
- Bass / Mid.: The bass control is used for attenuating or boosting the signal level of low frequencies. It has a cut position and boost position to set the level of tones according to the requirement.
- Treble / High: It is used for attenuating or boosting the signal level of high frequencies. The normal quality is at zero position and it can be increased or decreased according to the requirement.
- LED Arrays: It is used to indicate the level of sound. The LED indicators includes three green and two red LEDs.
- USB / SD Card Player / Recorder: For Connecting USB Flash Drive or SD Card to Play any MP3 Format. The same can be used for recording any live event by pressing the mode button to “Line” Mode and then pressing the “Rec” button. After finishing press the “Rec” button to save the audio file in USB / SD Card. Audio file is played once after the recording.
Selector Switch: It is used to select the output hardware between box speaker and driver unit. Bass boost defeated at driver unit position for safer operations of driver unit.

Power: Power switch is used to enable power supply to reach the amplifier. Power requirement for amplifiers: AC 220-240V 50/60Hz or DC 12V / 24V / 36V (car battery).

Pilot: The LED glows when the amplifier is switched ON.

Amplifier Rear Panel Controls and Functions:

- **Transistors:**
  - 36V DC
  - 24V DC
  - 12V DC

- **Preamp Output:** This socket is used to connect the amplifier with the other amplifier or preamp recorder. The output signal of preamp output is 200 mV. The output from preamp is recommended to connect with the AUX of other amplifier.

- **AC Mains Fuse:** This protects the amplifier from any excessive current flow.

- **Line Out:** This socket is also used to connect the amplifier with other amplifier. To obtain higher output the output signal of line out is 1V. The output from line out is recommended to connect with the line in of the other amplifier. Connection from line out to line in makes the bass and treble uneffective.

- **Line In:** It is used to connect the mixer for enhancing the number of inputs or the other pre amplifier. Its input sensitivity is 1V.

- **Speaker Terminal:**
  1. (4, 8 & 16 ohms) for connecting low impedance speakers.
  2. (70V & 100V line) for connecting speakers with 100V line matching transformer.

- **Block:**
  - for connecting speakers with 100V line matching transformer.

- **Monitor:** This socket is used to monitor the output of amplifier. Headphone or a small speaker can be used as a monitoring device.

- **Earthing Terminal:** This terminal is used to connect the amplifier with the earth point.

- **Battery Terminals:** For connecting car batteries as standby power source.
## Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>350W AC / DC 36V, 5 Mike 2 Aux, USB / SD Card Player &amp; Recorder with FM</th>
<th>250W AC / DC 24V, 5 Mike 2 Aux, USB / SD Card Player &amp; Recorder with FM</th>
<th>160W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player &amp; Recorder with FM</th>
<th>120W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player &amp; Recorder with FM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Requirements</strong></td>
<td>AC 220-240 V 50/60 Hz DC 36 V (1 x 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 24 V (2 x 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 x 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td><strong>Input Channels</strong></td>
<td>5 Mikes, 2 Aux</td>
<td>5 Mikes, 2 Aux</td>
<td>5 Mikes, 2 Aux</td>
<td>5 Mikes, 2 Aux</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td><strong>Tone Control</strong></td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10KHz</td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10KHz</td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10KHz</td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10KHz</td>
</tr>
<tr>
<td><strong>Pre-amp. Output</strong></td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
</tr>
<tr>
<td><strong>Line Output</strong></td>
<td>1V / 1K Ohms</td>
<td>1V / 1K Ohms</td>
<td>200mV / 600 Ohms Pre Amp</td>
<td>200mV / 600 Ohms Pre Amp</td>
</tr>
<tr>
<td><strong>Signal To Noise Ratio</strong></td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td><strong>Output Taps For</strong></td>
<td>4-8 Ohms</td>
<td>4-8 Ohms</td>
<td>4-8 Ohms</td>
<td>4-8 Ohms</td>
</tr>
<tr>
<td><strong>Speaker Matching</strong></td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td><strong>Weight (approx.)</strong></td>
<td>24.00 Kg</td>
<td>20.00 Kg</td>
<td>12.00 Kg</td>
<td>11.80 Kg</td>
</tr>
</tbody>
</table>

**Features**:
- 19" Rack Mountable Sturdy Chasis in 3U Height
- Uses Toshiba 5200 Transistors
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4 & 8 Ohms and 70V, 100V line.
- Provided with fans to keep the amplifier cool enabling trouble free operations under extreme climate conditions.
- Line Input for connecting the output from any external mixer.
- With Monitor Facility.

**Features**:
- 19" Rack Mountable Sturdy Chasis in 2U Height
- Uses Toshiba 5200 Transistors
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4 & 8 Ohms and 70V, 100V line.
- Provided with fans to keep the amplifier cool enabling trouble free operations under extreme climate conditions.
- Line Input for connecting the output from any external mixer.
- With Monitor Facility.

**Features**:
- 19" Rack Mountable Sturdy Chasis in 2U Height
- Uses Toshiba 5200 Transistors
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**Features**:
- 19" Rack Mountable Sturdy Chasis in 3U Height
- Uses Toshiba 5200 Transistors
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4 & 8 Ohms and 70V, 100V line.
- Provided with fans to keep the amplifier cool enabling trouble free operations under extreme climate conditions.
- Line Input for connecting the output from any external mixer.
- With Monitor Facility.

**Instant transfer to DC power if AC power fails.**

**Features**:
- Instant transfer to DC power if AC power fails.
- Made in India
- Uses Toshiba 5200 Transistors
- 19" Rack Mountable Sturdy Chasis in 2U Height
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**Features**:
- Instant transfer to DC power if AC power fails.
- Made in India
- Uses Toshiba 5200 Transistors
- 19" Rack Mountable Sturdy Chasis in 3U Height
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**Features**:
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**Features**:
- Instant transfer to DC power if AC power fails.
- Made in India
- Uses Toshiba 5200 Transistors
- 19" Rack Mountable Sturdy Chasis in 3U Height
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier And Line Out for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
MIA SERIES AMPLIFIERS

MIA - 100U
100W AC / DC 12V, 4 Mike 2 Aux, USB /SD Card Player & Recorder with FM

Features
- Stylish 19” Rack Mountable Study Chasis.
- Multiple inputs for 4 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier Output for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

MIA - 80U
80W AC / DC 12V, 4 Mike 2 Aux, USB /SD Card Player & Recorder with FM

Features
- Stylish 19” Rack Mountable Study Chasis.
- Multiple inputs for 4 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier Output for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

MIA - 60UE
60W AC / DC 12V, 3 Mike 1 Aux, USB /SD Card Player & Recorder with FM
In-built ECHO on Mike 2

Features
- Stylish 19” Rack Mountable Study Chasis.
- Multiple inputs for 3 Mikes / 1 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier Output for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

MIA - 60U
60W AC / DC 12V, 3 Mike 1 Aux, USB /SD Card Player & Recorder with FM

Features
- Stylish 19” Rack Mountable Study Chasis.
- Multiple inputs for 3 Mikes / 1 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamplifier Output for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

Specification

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<th>Model</th>
<th>MIA - 100U</th>
<th>MIA - 80U</th>
<th>MIA - 60UE (ECHO inbuilt)</th>
<th>MIA - 60U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td>Power Output</td>
<td>100 W (RMS) at 10% THD</td>
<td>60 W (RMS) at 10% THD</td>
<td>60 W (RMS) at 10% THD</td>
<td>60 W (RMS) at 10% THD</td>
</tr>
<tr>
<td>Input Channels</td>
<td>4 Mikes, 2 Aux.</td>
<td>4 Mikes, 2 Aux.</td>
<td>3 Mikes, 1 Aux.</td>
<td>3 Mikes, 1 Aux.</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass: ±10dB at 100Hz</td>
<td>Bass: ±10dB at 100Hz</td>
<td>Bass: ±10dB at 100Hz</td>
<td>Bass: ±10dB at 100Hz</td>
</tr>
<tr>
<td>Line Output</td>
<td>200mV / 600 Ohms Pre Amp</td>
<td>200mV / 600 Ohms Pre Amp</td>
<td>200mV / 600 Ohms Line Out</td>
<td>200mV / 600 Ohms Line Out</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>4.4-16 Ohms</td>
<td>4.4-16 Ohms</td>
<td>4.4-16 Ohms</td>
<td>4.4-16 Ohms</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>7.850 Kg.</td>
<td>7.000 Kg.</td>
<td>7.100 Kg.</td>
<td>7.100 Kg.</td>
</tr>
</tbody>
</table>

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Instant transfer to DC power if AC power fails.
**DJ AMPLIFIERS & P.A. HIGH POWER MIXER AMPLIFIERS**

**DJ AMPLIFIER**

This Series of DJ Amplifier has power rating of 500, 800, 1000Watts. Most stable Toshiba transistors are used in this series. With In-Built USB Player/Recorder and FM Player Module and 3 Mike Input with Echo this series offer unique advantage for small music program. Extensive protection from short circuit, Clipping and over-temperature is provided.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Denson-5500</th>
<th>Denson-8500</th>
<th>Denson-10500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output (8 Ohms)</td>
<td>350W</td>
<td>500W</td>
<td>700W</td>
</tr>
<tr>
<td>Output (4 Ohms)</td>
<td>500W</td>
<td>800W</td>
<td>1000W</td>
</tr>
<tr>
<td>Output (2 Ohms)</td>
<td>800W</td>
<td>1150W</td>
<td>1500W</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20Hz-20kHz, -1.5dB</td>
<td>20Hz-20kHz, -1.5dB</td>
<td>20Hz-20kHz, -1.5dB</td>
</tr>
<tr>
<td>THD 0.25%</td>
<td>&lt;0.08%</td>
<td>&lt;0.08%</td>
<td>&lt;0.08%</td>
</tr>
<tr>
<td>Damping Factor</td>
<td>100 @ 8 Ohms 1 kHz</td>
<td>100 @ 8 Ohms 1 kHz</td>
<td>100 @ 8 Ohms 1 kHz</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>75dB</td>
<td>75dB</td>
<td>75dB</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>XLR</td>
<td>XLR</td>
<td>XLR</td>
</tr>
<tr>
<td>Output Connectors</td>
<td>Speakon, Binding Posts</td>
<td>Speakon, Binding Posts</td>
<td>Speakon, Binding Posts</td>
</tr>
<tr>
<td>Power Input</td>
<td>DC / Short Circuit / Temperature/ Limit</td>
<td>DC / Short Circuit / Temperature/ Limit</td>
<td>DC / Short Circuit / Temperature/ Limit</td>
</tr>
<tr>
<td>Dimensions</td>
<td>482 X 88 X 455 cm</td>
<td>482 X 88 X 455 cm</td>
<td>482 X 88 X 455 cm</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>15.200 Kg</td>
<td>17.100 Kg</td>
<td>18.000 Kg</td>
</tr>
</tbody>
</table>

**DENSON - 5600U**

600W AC / DC 36V, 7 Mike 2 Aux, USB /SD Card Player & Recorder with FM

**Features**

- Multiple inputs for 7 Mikes / 2 Aux source.
- Individual volume control for each input.
- Provided with fans to keep the amplifier cool enabling trouble free operations under extreme climate conditions.
- Active bass and treble control.
- Led array for output level.
- In-built Bluetooth facility.
- Booster amplifier can be connected through line out and preamp output provided at the rear panel.
- External speaker connections are provided for 2, 4, 8 Ohms and 70V, 100V line.
- Line input for connecting the output from any external mixer.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Denson-5600U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz DC 36 V (3 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td>Power Output</td>
<td>600 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>7 Mikes 2 Aux, 1 USB Port 1 SD / MMC Card Reader</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass ±10dB at 100Hz, Treble ±10dB at 10KHz</td>
</tr>
<tr>
<td>Pre-amp. Output</td>
<td>200mV / 600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V / 1k Ohms</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>2-4-8 Ohms</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>34.000 Kg</td>
</tr>
</tbody>
</table>

**SSA - 650**

750W AC / DC 36V, 7 Mike 2 Aux

**Features**

- Multiple inputs for 7 Mikes / 2 Aux source.
- Led array for output level.
- Box speaker/driver unit selector switch. Bass boost defeated at driver unit position for safer operations of driver unit.
- Resettable circuit breaker for protection against overload and short circuit.
- Booster amplifier can be connected through line out and preamp output provided at the rear panel.
- External speaker connections are provided for 4, 8 Ohms and 70V, 100V line.
- Line input for connecting the output from any external mixer.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>SSA - 650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz DC 36 V (3 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td>Power Output</td>
<td>750 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>7 Mikes 2 Aux</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass ±10dB at 100Hz, Treble ±10dB at 10KHz</td>
</tr>
<tr>
<td>Pre-amp. Output</td>
<td>200mV / 600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V / 1k Ohms</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>4-8 Ohms</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>22.000 Kg</td>
</tr>
</tbody>
</table>

**With In-Built Echo**

For any enquiry mail us at mega@megaindia.net

www.megaindia.in, www.megaindia.net
TZA - 7000U
500W + 500W AC / DC 36V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

Features:
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing overloading and overheating.
- Tone control: Active Bass & Treble for each zone.
- In-built Bluetooth facility.
- Preamplifier & Line out for connecting to a booster amplifier and for recording the programme Line input for connecting the output from any external mixer.
- LED Array for output level.
- Zone on/off facility: output levels of each zones can be adjusted independently to desired levels and the zones can be switched on/off without disturbing the volume.

TZA - 4000U
300W + 300W AC / DC 24V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

Features:
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing overloading and overheating.
- Tone control: Active Bass & Treble for each zone.
- In-built Bluetooth facility.
- Preamplifier & Line out for connecting to a booster amplifier and for recording the programme Line input for connecting the output from any external mixer.
- LED Array for output level.
- Zone on/off facility: output levels of each zones can be adjusted independently to desired levels and the zones can be switched on/off without disturbing the volume.

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>TZA-7000U</th>
<th>TZA-4000U</th>
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<tbody>
<tr>
<td>Power Requirement</td>
<td>AC: 220-240V 50/60Hz DC: 36V (3×12V Car Battery)</td>
<td>AC: 220-240V 50/60Hz DC: 24V (2×12V Car Battery)</td>
</tr>
<tr>
<td>Power Output</td>
<td>500W + 500W Max., 350W + 350W RMS at 10% THD</td>
<td>300W + 300W Max., 200W + 200W RMS at 10% THD</td>
</tr>
<tr>
<td>Input Channels</td>
<td>Mono 6 × Mic 0.6mV/4.7kΩ, 2 × Aux 100mV/4/70kΩ, Stereo L/R 100mV/100kΩ, Line L/R 1V/50kΩ</td>
<td>Mono 6 × Mic 0.6mV/4.7kΩ, 2 × Aux 100mV/470kΩ, Stereo L/R 200mV/100kΩ, Line L/R 1V/50kΩ</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15,000Hz ±3dB</td>
<td>50-15,000Hz ±3dB</td>
</tr>
<tr>
<td>Tone Controls</td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz</td>
<td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz</td>
</tr>
<tr>
<td>Preamplifier Output</td>
<td>200mV/600Ω</td>
<td>200mV/600Ω</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V/1kΩ</td>
<td>1V/1kΩ</td>
</tr>
<tr>
<td>Signal to Noise Ratio</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>Speaker Outputs</td>
<td>4Ω, 8Ω, 70V &amp; 100V for each zone</td>
<td>4Ω, 8Ω, 70V &amp; 100V for each zone</td>
</tr>
<tr>
<td>Weight</td>
<td>38 Kg</td>
<td>23 Kg</td>
</tr>
</tbody>
</table>

Instant transfer to DC power if AC power fails.

Box Speaker / Driver Unit selector switch.

These Twin Zone amplifiers have an advantage for connecting indoor speakers like Denson-905 T at one zone and outdoor speakers like 21° Horn Speaker at other zone. This facility is useful for religious places like Mosques, Churches, Gurudwaras, and Temples etc. where the announcement is to be made indoor and outdoor at the same time.
P. A. TWIN ZONE POWER AMPLIFIERS

DENSON - 2525 UE

300W + 300W AC / DC 36V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

Features
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating.
- Tone control: - Active Bass & Treble for each zone.
- In-built Bluetooth facility.
- Preampifier & Line out for connecting to a booster amplifier and for recording the programme Line Input for connecting the output from any external mixer.
- LED Array for output level.
- Zone on/off facility. Output levels of each zones can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.
- Echo facility built-in.

DENSON - 1515 UE

150W + 150W AC / DC 24V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

Features
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- In-built Bluetooth facility.
- Separate line in and line out are provided for each zones.
- Separate monitors are provided for each zone to monitor The output level of each zone.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating.
- Zone on/off facility. Output levels of each zones can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.
- Line Input for connecting the output from any external mixer.
- Echo facility built-in.

DENSON - 1600 UE

80W + 80W AC / DC 12V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

Features
- Multiple inputs for 6 Mics / 2 Aux source.
- In-built Bluetooth facility.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating.
- Both the zones can also be connected with 100 V Line type speakers or low impedance type speakers simultaneously.
- Cut type bass and treble control.
- Zone on/off facility. Output levels of each zone can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.
- Echo facility built-in.

Specifiaction

<table>
<thead>
<tr>
<th>Model</th>
<th>DENSON - 2525 UE</th>
<th>DENSON - 1515 UE</th>
<th>DENSON - 1600 UE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>DENSON - 2525 UE</td>
<td>DENSON - 1515 UE</td>
<td>DENSON - 1600 UE</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>DC 36 V (3 X 12 V CAR BATTERY)</td>
<td>DC 24 V (2 X 12 V CAR BATTERY)</td>
<td>DC 12 V (1 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td>Power Output</td>
<td>300 W + 300 W (Max.)</td>
<td>150 W + 150 W (Max.)</td>
<td>80 W + 80 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>6 Mikes / 2 Aux.</td>
<td>6 Mikes / 2 Aux.</td>
<td>6 Mikes / 2 Aux.</td>
</tr>
<tr>
<td></td>
<td>1 USB Port / 1 SD / MMC Card Reader</td>
<td>1 USB Port / 1 SD / MMC Card Reader</td>
<td>1 USB Port / 1 SD / MMC Card Reader</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>65-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>BASS: ±10dB at 10Hz, TREBLE: ±10dB at 10 KHz</td>
<td>BASS: ±10dB at 10Hz, TREBLE: ±10dB at 10 KHz</td>
<td>BASS: ±10dB at 10Hz, TREBLE: ±10dB at 10 KHz</td>
</tr>
<tr>
<td>Pre-amp. Output</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1/1KV Ohms</td>
<td>1/1KV Ohms</td>
<td>1/1KV Ohms</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60 dB</td>
<td>60 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>4.8 &amp; 16 Ohms each zone</td>
<td>4.8 &amp; 16 Ohms each Zone</td>
<td>4.8 &amp; 16 Ohms each Zone</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>35.30 Kg.</td>
<td>25.30 Kg.</td>
<td>15.80 Kg.</td>
</tr>
</tbody>
</table>

Instant transfer to DC power if AC power fails.
Box Speaker / Driver Unit selector switch.

These Twin Zone amplifiers has an advantage for connecting indoor speakers like Denson-905 T at one zone and outdoor speakers like 21” Horn Speaker at other zone. This facility is useful for religious places like Mosques, Churches, Gurudwaras, and Temples etc. where the announcement is to be made indoor and outdoor at the same time.
**DENSON - 2525U**

**300W + 300W AC / DC 36V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

**Features**
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating.
- Tone control: - Active Bass & Treble for each zone.
- In-built Bluetooth facility.
- Preampifier & Line out for connecting to a booster amplifier and for recording the programme Line Input for connecting the output from any external mixer.
- LED Array for output level.
- Zone on/off facility. Output levels of each zones can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.
- Line Input for connecting the output from any external mixer.

**DENSON - 1515U**

**150W + 150W AC / DC 24V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

**Features**
- Multiple inputs for 6 Mics / 2 Aux source.
- Stereo / mono selector switch for DJ / PA Programmes.
- In-built Bluetooth facility.
- Separate line in and line out are provided for each zones.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating. Both the zones can also be connected with 100 V Line type speakers or low impedance type speakers simultaneously.
- Cut type bass and treble control.
- Zone on/off facility. Output levels of each zone can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.
- Line Input for connecting the output from any external mixer.

**DENSON - 1600U**

**80W + 80W AC / DC 12V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

**Features**
- Multiple inputs for 6 Mics / 2 Aux source.
- In-built Bluetooth facility.
- It permits connecting 100 V (LMT) type speakers to one zone and low impedance type speakers to other zone without causing over loading and over heating. Both the zones can also be connected with 100 V Line type speakers or low impedance type speakers simultaneously.
- Cut type bass and treble control.
- Zone on/off facility. Output levels of each zone can be set independently to desired levels and the zones can be switched on/off without disturbing the volume.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>DENSON - 2525 U</th>
<th>DENSON - 1515 U</th>
<th>DENSON - 1600 U</th>
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</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
</tr>
<tr>
<td>DC 36 V (3 X 12 V CAR BATTERY)</td>
<td>DC 24 V (2 X 12 V CAR BATTERY)</td>
<td>DC 12 V (1 X 12 V CAR BATTERY)</td>
<td></td>
</tr>
<tr>
<td>Power Output</td>
<td>300 W + 300 W (Max.)</td>
<td>150 W + 150 W (Max.)</td>
<td>60 W + 80 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>6 Mikes 2 Aux.</td>
<td>6 Mikes 2 Aux.</td>
<td>6 Mikes 2 Aux.</td>
</tr>
<tr>
<td>1 USB Port 1 SD / MMC Card Reader</td>
<td>1 USB Port 1 SD / MMC Card Reader</td>
<td>1 USB Port 1 SD / MMC Card Reader</td>
<td></td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ±3dB</td>
<td>50-15000 Hz ±3dB</td>
<td>65-15000 Hz ±3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>BASS +10dB at 100Hz, TREBLE ±10dB at 10 KHz</td>
<td>BASS ±10dB at 100Hz, TREBLE ±10dB at 10 KHz</td>
<td>BASS -10dB at 100Hz, TREBLE -10dB at 10 KHz</td>
</tr>
<tr>
<td>Pre-amp. Output</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V/1K Ohms</td>
<td>1V/1K Ohms</td>
<td>————</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60 dB</td>
<td>60 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>4.8 &amp; 16 Ohms each zone</td>
<td>4.8 &amp; 16 Ohms each zone</td>
<td>4.8 &amp; 16 Ohms each zone</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>35.30 Kg.</td>
<td>23.30 Kg.</td>
<td>15.80 Kg.</td>
</tr>
</tbody>
</table>

Instant transfer to DC power if AC power fails.

Box Speaker / Driver Unit selector switch.

These Twin Zone amplifiers has an advantage for connecting indoor speakers like Denson-905 T at one zone and outdoor speakers like 21” Horn Speaker at other zone. This facility is useful for religious places like Mosques, Churches, Gurudwaras, and Temples etc. where the announcement is to be made indoor and outdoor at the same time.
### SPA 500

**Model:** SPA 500  
**Power Output:** 500W AC 220V  
**Power Requirements:** AC 220-240 V 50/60 Hz,  
**Input Channels:** 1 X line 1.44V, 1 Line 0.72V,  
**Frequency Response:** 50-15000 Hz ± 3dB  
**Tone Control:** Bass: ±10dB at 100Hz, Mid: ±10dB at 10kHz, Treble: ±10dB at 10kHz  
**Pre-amp. Output:** 200mV/600 Ohms  
**Line Output:** 1V/1K Ohms  
**Signal To Noise Ratio:** 60 dB  
**Output Taps For Speaker Matching:** 70V/100V LINE  
**Weight (approx.):** 32.000 Kg  

**Features:**  
- Provided with fan to keep the amplifier cool, enabling trouble free operations under extreme climate conditions.  
- Active Bass and Treble Control  
- Master control to control overall sound  
- Led array for output level  
- Line in 1V / 200mV switchable for connecting external mixer or amplifier  
- External Speaker connection are provided for 2, 4, 8 Ohms and 70V, 100V Line  

**Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>DJ - 15000</th>
<th>DJ - 1200U</th>
<th>SPA 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz,</td>
<td>AC 220-240 V 50/60 Hz,</td>
<td>AC 220-240 V 50/60 Hz,</td>
</tr>
<tr>
<td>Power Output</td>
<td>750 W + 750 W (Max.)</td>
<td>1200 W (Max.)</td>
<td>500 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>1 X line 1.44V, 1 Line 0.72V, 1 USB Port 1 SD / MMC Card Reader</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass: ±10dB at 100Hz, Mid: ±10dB at 10kHz, Treble: ±10dB at 10kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-amp. Output</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
<td>200mV/600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V/1K Ohms</td>
<td>1V/1K Ohms</td>
<td>1V/1K Ohms</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60 dB</td>
<td>60 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>Output Taps For Speaker Matching</td>
<td>2-4 Ohms</td>
<td>2-4 Ohms</td>
<td>4-8 Ohms</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>70V-100V LINE</td>
<td>70V-100V LINE</td>
<td>70V-100V LINE</td>
</tr>
</tbody>
</table>

**SPA 500 Features:**  
- Provided with fan to keep the amplifier cool, enabling trouble free operations under extreme climate conditions.  
- Active Bass and Treble Control  
- Master control to control overall sound  
- Led array for output level  
- Line in 1V / 200mV switchable for connecting external mixer or amplifier  
- External Speaker connection are provided for 2, 4, 8 Ohms and 70V, 100V Line
**P.A. HIGH POWER MIXER AMPLIFIERS**

**DENSON - 400U**

*400W DC 36V, 6 Mike 2 Aux, USB/SD Card Player & Recorder with FM*

**Features**
- Multiple inputs for 6 Mikes / 2 Aux source.
- Line input for connecting the output from any external mixer or permitting to be used as a booster power amplifier.
- Passive bass and treble control.
- In-built Bluetooth facility.
- Preamp for connecting to a booster amplifier for recording the programme.
- External speaker connections are provided for 2, 4, 8 Ohms and 70V, 100V line.
- Preamp and line output for connecting to a booster amplifier and for recording the programme.
- Box speaker/driver unit selector switch. Bass boost defeted at driver unit position for safer operations of driver unit.
- Resettable circuit breaker for protection against overload and short circuit.
- Preamp for connecting to a booster amplifier and for recording the programme.
- External speaker connections are provided for 2, 4, 8 Ohms and 70V, 100V line.
- Digital equalizer.

**DENSON - 300U**

*300W AC DC 24V, 6 Mike 2 Aux, USB/SD Card Player & Recorder with FM*

**Features**
- Multiple inputs for 6 Mikes / 2 Aux source.
- Line input for connecting the output from any external mixer or permitting to be used as a booster power amplifier.
- Passive bass and treble control.
- In-built Bluetooth facility.
- Preamp for connecting to a booster amplifier for recording the programme.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**SSA - 250U**

*300W AC DC 24V, 6 Mike 2 Aux, USB/SD Card Player & Recorder with FM*

**Features**
- Multiple inputs for 6 Mikes / 2 Aux source.
- Line input for connecting the output from any external mixer or permitting to be used as a booster power amplifier.
- Passive bass and treble control.
- In-built Bluetooth facility.
- Preamp for connecting to a booster amplifier for recording the programme.
- External speaker connections are provided for 2, 4, 8 Ohms and 70V, 100V line.
- Preamp for connecting to a booster amplifier and for recording the programme.

**DENSON - 250U**

*250W AC DC 24V, 6 Mike 2 Aux, USB/SD Card Player & Recorder with FM*

**Features**
- Multiple inputs for 6 Mikes / 2 Aux source.
- Line input for connecting the output from any external mixer or permitting to be used as a booster power amplifier.
- Passive bass and treble control.
- In-built Bluetooth facility.
- Preamp for connecting to a booster amplifier and for recording the programme.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
- Preamp for connecting to a booster amplifier and for recording the programme.

---

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>DENSON - 400U</th>
<th>DENSON - 300U</th>
<th>SSA - 250U</th>
<th>DENSON - 250U</th>
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</thead>
<tbody>
<tr>
<td>Power Output</td>
<td>DC 220-240 V 50/60 Hz</td>
<td>DC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
</tr>
<tr>
<td>Input Channels</td>
<td>6 Mikes 2 Aux, 1 USB Port 1 SD/MMC Card Reader</td>
<td>6 Mikes 2 Aux, 1 USB Port 1 SD/MMC Card Reader</td>
<td>6 Mikes 2 Aux, 1 USB Port 1 SD/MMC Card Reader</td>
<td>6 Mikes 2 Aux, 1 USB Port 1 SD/MMC Card Reader</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
<td>50-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Low: ± 10dB at 100Hz, Mid: ± 10dB at 1kHz, High: ± 10dB at 10kHz</td>
<td>Bass: ± 10dB at 100Hz, Treble: ± 10dB at 10kHz</td>
<td>Bass: ± 10dB at 100Hz, Treble: ± 10dB at 10kHz</td>
<td>Bass: ± 10dB at 100Hz, Treble: ± 10dB at 10kHz</td>
</tr>
<tr>
<td>Preamp Output</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>1V / 1K Ohms</td>
<td>1V / 1K Ohms</td>
<td>1V / 1K Ohms</td>
<td>1V / 1K Ohms</td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>2-4-8 Ohms</td>
<td>4-6-16 Ohms</td>
<td>4-6-16 Ohms</td>
<td>4-6-16 Ohms</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line, 70V-100V Line</td>
<td>70V-100V Line, 70V-100V Line</td>
<td>70V-100V Line, 70V-100V Line</td>
<td>70V-100V Line, 70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>26.00 Kg.</td>
<td>20.50 Kg.</td>
<td>14.00 Kg.</td>
<td>17.70 Kg.</td>
</tr>
</tbody>
</table>

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**Recognised Export House of India**
P.A. HIGH POWER MIXER AMPLIFIERS

DENSON - 250 UE
250W AC / DC 24V, 6 Mike 2 Aux, USB / SD Card Player & Recorder with FM

**Features**
- Multiple inputs for 6 Mikes / 2 Aux source.
- Pre-amplifier out for connecting to a booster amplifier and for recording the programme.
- Passive bass and treble control.
- In-built Bluetooth facility.
- LED array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
- Echo facility inbuilt.

DENSON - 200 UE
200W AC / DC 24V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM

**Features**
- Multiple inputs for 5 Mikes / 2 Aux source.
- Pre-amplifier for connecting to a booster amplifier and for recording the programme.
- Passive bass and treble control.
- In-built Bluetooth facility.
- LED array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
- Echo facility inbuilt.

DENSON - 160 UE
160W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM

**Features**
- Multiple inputs for 5 Mikes / 2 Aux source.
- Pre-amplifier for connecting to a booster amplifier and for recording the programme.
- Passive bass and treble control.
- In-built Bluetooth facility.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
- Echo facility inbuilt.

DENSON - 120 UE
120W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM

**Features**
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Passive bass and treble control.
- Pre-amplifier for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.
- Echo facility inbuilt.

**Specification**
- **DENSON - 250 UE**
  - Power Requirements: AC 220-240 V 50/60 Hz
  - Power Output: 250 W (Max.)
  - Input Channels: 6 Mikes 2 Aux, 1 USB Port 1 SD / MMC Card Reader
  - Frequency Response: 50-10000 Hz ± 3dB
  - Treble: ±10dB at 10KHz
  - Pre-amplifier: Output 200mV / 600 Ohms
  - Line Output: 200mV / 600 Ohms Pre Amp
  - Signal To Noise Ratio: 60dB
  - Output Taps: 4-8-16 Ohms
  - Speaker Matching: 70V-100V Line
  - Weight: 17.700 Kg.

- **DENSON - 200 UE**
  - Power Requirements: AC 220-240 V 50/60 Hz
  - Power Output: 250 W (Max.)
  - Input Channels: 5 Mikes 2 Aux, 1 USB Port 1 SD / MMC Card Reader
  - Frequency Response: 50-10000 Hz ± 3dB
  - Treble: ±10dB at 10KHz
  - Pre-amplifier: Output 200mV / 600 Ohms
  - Line Output: 200mV / 600 Ohms Pre Amp
  - Signal To Noise Ratio: 60dB
  - Output Taps: 4-8-16 Ohms
  - Speaker Matching: 70V-100V Line
  - Weight: 16.000 Kg.

- **DENSON - 160 UE**
  - Power Requirements: AC 220-240 V 50/60 Hz
  - Power Output: 160 W (Max.)
  - Input Channels: 5 Mikes 2 Aux, 1 USB Port 1 SD / MMC Card Reader
  - Frequency Response: 50-10000 Hz ± 3dB
  - Treble: ±10dB at 10KHz
  - Pre-amplifier: Output 200mV / 600 Ohms
  - Line Output: 200mV / 600 Ohms Pre Amp
  - Signal To Noise Ratio: 60dB
  - Output Taps: 4-8-16 Ohms
  - Speaker Matching: 70V-100V Line
  - Weight: 12.500 Kg.

- **DENSON - 120 UE**
  - Power Requirements: AC 220-240 V 50/60 Hz
  - Power Output: 120 W (Max.)
  - Input Channels: 5 Mikes 2 Aux, 1 USB Port 1 SD / MMC Card Reader
  - Frequency Response: 50-10000 Hz ± 3dB
  - Treble: ±10dB at 10KHz
  - Pre-amplifier: Output 200mV / 600 Ohms
  - Line Output: 200mV / 600 Ohms Pre Amp
  - Signal To Noise Ratio: 60dB
  - Output Taps: 4-8-16 Ohms
  - Speaker Matching: 70V-100V Line
  - Weight: 12.000 Kg.

**Features**
- Instant transfer to DC power if AC power fails.
- Box Speaker / Driver Unit selector switch.


Made in India

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## P.A. MEDIUM POWER MIXER AMPLIFIERS

**DENSON - 200U**

**200W AC / DC 24V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

### Features
- Multiple inputs for 5 Mikes / 2 Aux source.
- Preamplifier for connecting to a booster amplifier and for recording the programme.
- Passive bass and treble control.
- In-built Bluetooth facility.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>DENSON - 200U</th>
<th>DENSON - 160U</th>
<th>DENSON - 120U</th>
<th>DENSON - 100U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz DC 24 V (2 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 X 12 V CAR BATTERY)</td>
</tr>
<tr>
<td>Power Output</td>
<td>200 W (Max.)</td>
<td>160 W (Max.)</td>
<td>120 W (Max.)</td>
<td>100 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>5 Mikes 2 Aux.</td>
<td>5 Mikes 2 Aux.</td>
<td>5 Mikes 2 Aux.</td>
<td>4 Mikes 2 Aux.</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50–15000 Hz ± 3dB</td>
<td>50–15000 Hz ± 3dB</td>
<td>50–15000 Hz ± 3dB</td>
<td>50–15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10Khz</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10Khz</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10Khz</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10Khz</td>
</tr>
<tr>
<td>Preamp. Output</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
<td>200mV / 600 Ohms</td>
</tr>
<tr>
<td>Line Output</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
<td>70V-100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>16.00 Kg</td>
<td>12.50 Kg</td>
<td>12.00 Kg</td>
<td>9.00 Kg</td>
</tr>
</tbody>
</table>

For any enquiry mail us at mega@megaindia.net

**DENSON - 160U**

**160W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

### Features
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Passive bass and treble control.
- Preamplifier for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**DENSON - 120U**

**120W AC / DC 12V, 5 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

### Features
- Multiple inputs for 5 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Passive bass and treble control.
- Preamplifier for connecting to a booster amplifier and for recording the programme.
- LED Array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**DENSON - 100U**

**100W AC / DC 12V, 4 Mike 2 Aux, USB / SD Card Player & Recorder with FM**

### Features
- Multiple inputs for 4 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamp output provided at rear panel to connect it with pre amplifier for recording of programme.
- Led array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**Application**
- Departmental Store
- Religious Discourses
- Large Shops
- School Assemblies
- Medium Gatherings
- Announcements

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## P.A. Low Power Mixer Amplifiers

**DENSON - 80U**
80W AC / DC 12V, 4 Mike 2 Aux, USB / SD Card Player & Recorder with FM

- Multiple inputs for 4 Mikes / 2 Aux source.
- In-built Bluetooth facility.
- Active bass and treble control.
- Preamp output provided at rear panel to connect it with pre amplifier for recording of programme.
- Led array for output level.
- External speaker connections are provided for 4, 8, 16 Ohms and 70V, 100V line.

**DENSON - 50U**
50W AC / DC 12V, 2 Mike 1 Aux, USB / SD Card Player & Recorder with FM

- Multiple inputs for 2 Mikes / 1 Aux source.
- In-built Bluetooth facility.
- Cut type bass and treble control.
- Line output provided at rear panel to connect it with booster amplifier.
- External speaker connections are provided for 4, 8, 16 Ohms and 100V line.

**DENSON - 45U**
50W AC / DC 12V, 3 Mike 1 Aux, USB / SD Card Player & Recorder with FM

- Multiple inputs for 3 Mikes / 1 Aux source.
- In-built Bluetooth facility.
- Cut type tone control.
- Provided with battery charging facility.
- Multi power source amplifier: AC mains, 12V DC (car battery) and 12V DC (8 x 1.5 v UM-1 cell).
- P.A. AMPLIFIER WITH DIGITAL PP/SCAN POWER MODE
- MADE IN INDIA

**DENSON - 40U**
40W AC / DC 12V, 3 Mike 1 Aux USB / SD Card Player & Recorder with FM

- Multiple inputs for 3 Mikes / 1 Aux source.
- Cut type tone control.
- Portable and ideal for use in electricity failure prone areas.
- External speaker connections are provided for 4, 8, 16 Ohms and 100V Line.
- Multi power source amplifier: AC mains, 12V DC (car battery) and 12V DC (8 x 1.5 v UM-1 cell).

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>DENSON - 80U</th>
<th>DENSON - 50U</th>
<th>DENSON - 45U</th>
<th>DENSON - 40U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (1 x 12 V CAR BATTERY)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (Dry Cells UM-1)</td>
<td>AC 220-240 V 50/60 Hz DC 12 V (Dry Cells UM-1)</td>
</tr>
<tr>
<td>Power Output</td>
<td>80 W (Max.)</td>
<td>50 W (Max.)</td>
<td>45 W (Max.)</td>
<td>40 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>4 Mikes 2 Aux</td>
<td>2 Mikes 1 Aux</td>
<td>3 Mikes 1 Aux</td>
<td>3 Mikes 1 Aux</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>50-15000 Hz ± 3dB</td>
<td>100-15000 Hz ± 3dB</td>
<td>100-15000 Hz ± 3dB</td>
<td>100-15000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10KHz</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10KHz</td>
<td>Cut Type Tone Control</td>
<td>Bass : ±10dB at 100Hz, Treble : ±10dB at 10KHz</td>
</tr>
<tr>
<td>Line Output</td>
<td>200mV / 600 Ohms Pre Amp</td>
<td>1 V / 1K Ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal To Noise Ratio</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>Output Tap For</td>
<td>4-8-16 Ohms</td>
<td>4-8-16 Ohms</td>
<td>4-8-16 Ohms</td>
<td>4-8-16 Ohms</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>70V-100V Line</td>
<td>100V Line</td>
<td>70V-100V Line</td>
<td>150V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>7.200 Kg</td>
<td>5.500 Kg</td>
<td>6.200 Kg</td>
<td>5.500 Kg</td>
</tr>
</tbody>
</table>

**Applications:**
- Departmental Stores
- Medium Gatherings
- Factories
- Banquets
- Religious Places
- Seminars
- Religious Discourses
- Small Installations
- Health Clubs

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P.A. LOW POWER MIXER AMPLIFIERS

UTR - 40

40W AC / DC 12V, 3 Mike 1 Aux

Features:
- Multiple inputs for 3 Mikes / 1 Aux source.
- Cut type tone control.
- Portable and ideal for use in electricity failure prone areas.
- External speaker connections are provided for 4, 8, 16 Ohms and 100V Line.
- Multi power source amplifier: AC mains, 12V DC (car battery) and 12V DC (8 x 1.5 V UM-1 cell).

DENSON - 30U

30W AC / DC 12V, 3 Mike 1 Aux USB /SD Card Player & Recorder with FM

Features:
- Multiple inputs for 3 Mikes / 1 Aux source.
- Cut type tone control.
- Portable and ideal for use in electricity failure prone areas.
- External speaker connections are provided for 4, 8, 16 Ohms.
- Multi power source amplifier: AC mains, 12V DC (car battery) and 12V DC (8 x 1.5 V UM-1 cell).

UTR - 30

30W AC / DC 12V, 3 Mike 1 Aux

Features:
- Multiple inputs for 3 Mikes / 1 Aux source.
- Cut type tone control.
- Portable and ideal for use in electricity failure prone areas.
- External speaker connections are provided for 4, 8, 16 Ohms.
- Multi power source amplifier: AC mains, 12V DC (car battery) and 12V DC (8 x 1.5 V UM-1 cell).

USB PLAYER / RECORDER

AC / DC 12V, 300mV, USB /SD Card Player & Recorder with FM

Features:
- Mp3 Compatible USB Port
- Digital FM Player
- Digital Equalizer
- Remote Control

Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>UTR - 40</th>
<th>DENSON - 30U</th>
<th>UTR - 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
<td>AC 220-240 V 50/60 Hz</td>
</tr>
<tr>
<td>Power Output</td>
<td>40 W (Max.)</td>
<td>30 W (Max.)</td>
<td>30 W (Max.)</td>
</tr>
<tr>
<td>Input Channels</td>
<td>3 Mikes 1 Aux</td>
<td>3 Mikes 1 Aux</td>
<td>3 Mikes</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>100-15000 Hz ± 3dB</td>
<td>150-10000 Hz ± 3dB</td>
<td>150-10000 Hz ± 3dB</td>
</tr>
<tr>
<td>Tone Control</td>
<td>Bass: -10dB at 100Hz, Treble: -10dB at 10KHz</td>
<td>Cut Type Tone Control -10dB at 10KHz</td>
<td>Cut Type Tone Control -10dB at 10KHz</td>
</tr>
<tr>
<td>Signal Noise Ratio</td>
<td>60dB</td>
<td>60dB</td>
<td>60dB</td>
</tr>
<tr>
<td>Output Taps For</td>
<td>4-8-16 Ohms</td>
<td>4-8-16 Ohms</td>
<td>4-8-16 Ohms</td>
</tr>
<tr>
<td>Speaker Matching</td>
<td>100V Line</td>
<td>100V Line</td>
<td>100V Line</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>5.500 Kg.</td>
<td>4.400 Kg.</td>
<td>4.400 Kg.</td>
</tr>
</tbody>
</table>

A P P L I C A T I O N S:
- Small Installations
- Paging System
- Banquets
- Health Clubs
- Small Get together
- Factories
- Religious Meetings

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**P.A. MIXER / P.A. MOBILE AMPLIFIER CUM SIREN**

**MIX SERIES**

**MIX-160 / MIX-120 / MIX-80 / MIX-60**

**Features**
- Mp3 Compatible USB / SD Card Port with LCD Display & Recording Facility.
- Attractive and stylish look with LCD Display.
- Mono input channels with gold plated XLR’s and balanced line inputs.
- Gain control with 3 Band EQ per channel.
- Echo Control for individual channel.
- Pan control for individual channel.
- Headphone output.
- PFL switch provided per channel to select the monitoring of any channel on headphone.

**P.A. MOBILE AMPLIFIER CUM SIREN**

**MSA - 500**

50W DC 12V, 2Mike 1 Aux & 2 Siren Tone

**Features**
- Inputs 2 Mikes / 1 Aux source.
- Siren on/off switch provided.
- Provided with clamp to fit it under the front dash board.
- Selector switch to select between the two siren (Wailing & Yelping) with volume control.
- External speaker connections for 4, 8 Ohms and 100V line speakers.
- Recommended for use with mike PT-400 & horn speaker P-110 / PUH - 60.
- Ideal for police vehicles, crowd control, ambulance, publicity van, electioneering etc.

**MSA - 500U**

50W DC 12V, 2Mike 1 Aux & 2 Siren Tone, USB Player / Recorder & FM Player

**Features**
- Inputs 12 V Car Battery.
- Provided with clamp to fit it in the factory.
- Output 20 W Wailing siren Tone.

**PS - 20**

20W DC 12V with Siren

**Features**
- Inputs 12 V Car Battery.
- Can be Connected 12V Solar Panel to Recharge the Inbuilt Battery.
- 2 Mike / 1 Aux / Inbuilt MP3 Player
- Includes 1 Mike with 4.5 Mtrs.
- Low Distortion Mike Cable

**WAS - 40**

**SOLAR POWERED RECHARGEABLE P.A. SYSTEM**

- 40 W PA System with Inbuilt Rechargeable Battery.
- Can be Connected 12V Solar Panel to Recharge the Inbuilt Battery.
- 2 Mike / 1 Aux / Inbuilt MP3 Player
- Includes 1 Mike with 4.5 Mtrs.
- Low Distortion Mike Cable
Portable P.A. Systems

PA. Megaphones

PA. Power Podium
PORTABLE P. A. SYSTEMS

PORTABLE P.A. SYSTEM is suitable for lectures, religious discourses, small parties, yoga classes, field publicity, bus tours, outdoor activities, conference halls, discussion rooms etc. where permanent sound facilities are not required. These Portable Systems are sufficient for the gathering of up to 100 persons. It operates on any of the 2 power sources i.e., AC Mains & Built In 12V Rechargeable Battery.

**MPA 100**

40W DC 12V, 2 Mike 1 Aux

- **Model:** MPA-100UC / MPA-100C / MPA-100U / MPA-100
- **Power Requirement:** AC 220-240 V 50/60 Hz DC 12 V 7.5 AH Rechargeable Battery (In Built)
- **Output:** 40 Watts (Music Power)
- **Frequency Response:** 50 Hz to 15 KHz ± 3db
- **Tone Control:** Bass & Treble (Cut Type) Bass at 100 Hz - 5 dB Treble at 10 KHz - 5 dB
- **Pre-Amp Output:** 200mV
- **External Speaker:** 1 x 8 Ohms
- **Protection:** Wrong Battery Polarity
- **Weight:** 6.00 (with Battery)

**Features**

- 1 XLR Mike included
- Built in 15 cm speaker
- Built in rechargeable battery with battery charging facility.
- Battery can last up to 8 Hours.
- Distance coverage is approx. 100 feet
- LED indicators for power and battery charging
- Provision to connect an external 8 Ohms Speaker
- Suitable for gathering up to 100 people
- Attractive, stylish white ABS plastic unit
- Provided with a stylish bag for better handling and to protect against dust.

**Specification**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>MPA-100UC / MPA-100C / MPA-100U / MPA-100</td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>AC 220-240 V 50/60 Hz DC 12 V 7.5 AH Rechargeable Battery (In Built)</td>
</tr>
<tr>
<td><strong>Power Output</strong></td>
<td>40 Watts (Music Power)</td>
</tr>
<tr>
<td><strong>Input Channels</strong></td>
<td>2 Mikes / 1 Aux</td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>50 Hz to 15 KHz ± 3db</td>
</tr>
<tr>
<td><strong>Tone Control</strong></td>
<td>Bass &amp; Treble (Cut Type) Bass at 100 Hz - 5 dB Treble at 10 KHz - 5 dB</td>
</tr>
<tr>
<td><strong>Pre-Amp Output</strong></td>
<td>200mV</td>
</tr>
<tr>
<td><strong>External Speaker</strong></td>
<td>1 x 8 Ohms</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td>Wrong Battery Polarity</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>6.00 (with Battery)</td>
</tr>
</tbody>
</table>
Mega Portable Public Address System is launched to reduce the headache of installing separate units like Amplifier, Speakers, Microphones etc. These Portable Systems are sufficient for the gathering of up to 100 persons. Suitable for lectures, yoga classes, religious discourses, small parties, field publicity, bus tours, outdoor activities, conference halls, discussion rooms etc. It’s in-built rechargeable battery makes it mobile and suitable for electricity failure prone areas.

MP - 99

- COMPACT
- ECONOMICAL
- ATTRACTIVE
- USER-FRIENDLY
- DURABLE
- COMFORTABLE
- RUGGED
- HEAVY DUTY
- LONG LASTING BATTERY BACK UP

MP - 99UEC

40W DC 12V, 2 Mike 1 Aux,
USB / SD Card Player & Recorder with FM
One VHF Hi-Band Cordless Mike
In-built ECHO Facility

MP - 99UE

40W DC 12V, 2 Mike 1 Aux,
USB / SD Card Player & Recorder with FM
In-built ECHO Facility

Features
- 1 XLR Mike Included
- Built in 35 cm 4 Ohms speaker.
- Built in rechargeable battery with battery charging facility.
- Battery can last up to 8 Hours.
- LED indicators for power and battery charging.
- Provision to connect an external 8 Ohms speaker.
- Can be used mobile and static.
- Rugged unit finished with weather resistant paint.
- Suitable for the gathering of up to 100 persons.
- Provided with stylish bag for better handling and to protect against dust.

Specifications
- Modulation Mode: VHF
- Directivity: Dynamic Unidirectional
- Effective Distance: 25 to 30 Feet
- Battery: 1 x 9v Battery

Wireless Microphone
- Modulation Mode: VHF
- Directivity: Dynamic Unidirectional
- Effective Distance: 25 to 30 Feet
- Battery: 1 x 9v Battery

Portable P.A. Systems

Recognised Export House of India


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23
PORTABLE P.A. SYSTEMS

MP - 99UC
40W DC 12V, 2 Mike 1 Aux,
USB /SD Card Player & Recorder with FM
One VHF Hi-Band Cordless Mike

Wireless Microphone

<table>
<thead>
<tr>
<th>Modulation Mode</th>
<th>VHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directivity</td>
<td>Dynamic Unidirectional</td>
</tr>
<tr>
<td>Effective Distance</td>
<td>25 to 30 Feet</td>
</tr>
<tr>
<td>Battery</td>
<td>1 x 9V Battery</td>
</tr>
</tbody>
</table>

Cordless Mike Selection
(Any One)

OR

MP - 99U
40W DC 12V, 2 Mike 1 Aux,
USB /SD Card Player & Recorder with FM

MP - 2803
120W DC 12V, 2 Mike 2 Aux,
USB /SD Card Player & Recorder with FM
Two VHF Hi-Band Cordless Mike
In-built ECHO Facility

Features
- 1 XLR Mike & 2 Cordless Mike included (Option available for Lapel cordless)
- In-built USB Player/ Recorder with FM Player
- In-built Bluetooth Facility.
- Built in One 20 cm Low Frequency speaker, One 15 cm Mid Frequency speaker & One Piezo Tweeter. This ensures Hi-Fidelity output of complete audio spectrum.
- Built in rechargeable battery with battery changing facility.
- Battery can last upto 4 Hours. Facility to connect external 12V battery.
- LED indicator for power. LED indicators for battery level indication.
- Mike Priority when USB / SD Card & FM Play.
- Can be used mobile and static.
- Rugged wooden cabinet with weather resistant paint.
- Suitable for the gathering of upto 300 persons.

Specification

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MP-2803</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER REQUIREMENT</td>
<td>AC 220-240 V 50/60 Hz DC 12 V Rechargeable Battery (In Built)</td>
</tr>
<tr>
<td>POWER OUTPUT</td>
<td>120 Watts (Music Power)</td>
</tr>
<tr>
<td>INPUT CHANNELS</td>
<td>2 Mikes /2 Aux</td>
</tr>
<tr>
<td>FREQUENCY RESPONSE</td>
<td>50 Hz to 20 KHz ± 3dB</td>
</tr>
<tr>
<td>TONE CONTROL</td>
<td>Bass ±10dB at 100 Hz, Treble ±10dB at 10 KHz</td>
</tr>
<tr>
<td>EXT. SPEAKER</td>
<td>2 x 4 Ohms</td>
</tr>
<tr>
<td>PROTECTION</td>
<td>Wrong Battery-Polarity</td>
</tr>
<tr>
<td>WEIGHT (Kg.) Approx.</td>
<td>14.500 (with Battery)</td>
</tr>
</tbody>
</table>

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Mega Portable Public Address System is launched to reduce the headache of installing separate units like Amplifier, Speakers, Microphones etc. These Portable Systems are sufficient for the gathering of up to 200 persons. Suitable for lectures, yoga classes, religious discourses, small parties, field publicity, bus tours, outdoor activities, conference halls, discussion rooms etc. It's in-built rechargeable battery makes it mobile and suitable for electricity failure prone areas.

**MP - 80U**

75W DC 12V, 2 Mike 1 Aux, USB / SD Card Player & Recorder with FM

- Compact
- Economical
- Attractive
- User-Friendly
- Durable
- Comfortable
- Rugged
- Heavy Duty
- Long Lasting Battery Back Up

**MP - 80UEC**

75W DC 12V, 2 Mike 1 Aux, USB / SD Card Player & Recorder with FM

- One VHF Hi-Band Cordless Mike
- In-built ECHO Facility

**MP - 80UC**

75W DC 12V, 2 Mike 1 Aux, USB / SD Card Player & Recorder with FM

- One VHF Hi-Band Cordless Mike
- With In-built Bluetooth Facility

---

**Wireless Microphone**

- Modulation Mode: VHF
- Directivity: Dynamic Unidirectional
- Effective Distance: 25 to 30 Feet
- Battery: 1 x 9v Battery

**Cordless Mike Selection**

(Any One)
**PORTABLE P.A. SYSTEMS**

**MP - 80UE**

75W DC 12V, 2 Mike 1 Aux, USB /SD Card Player & Recorder with FM In-built ECHO Facility

**Features**
- 1 XLR Mike included.
- In-Built USB Player/ Recorder with FM Player
- In-Built Bluetooth Facility.
- Built in two 15 cm speaker.
- Built in rechargeable battery with battery charging facility.
- Battery can last upto 5 Hours.
- LED indicators for power and battery charging.
- Provision to connect two external 8 Ohms speaker.
- Can be used mobile and static.
- Rugged unit finished with weather resistant paint.
- Suitable for the gathering of upto 200 persons.
- Provided with stylish bag for better handling and to protect against dust.

**Specification**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER REQUIREMENT</th>
<th>POWER OUTPUT</th>
<th>INPUT CHANNELS</th>
<th>FREQUENCY RESPONSE</th>
<th>TONE CONTROL</th>
<th>EXT. SPEAKER</th>
<th>PROTECTION</th>
<th>WEIGHT (Kg.) Approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-80UEC</td>
<td>AC 220-240 V 50/60 Hz DC 12 V Rechargeable Battery (In Built)</td>
<td>75 Watts (Music Power)</td>
<td>2 Mikes / 1 Aux</td>
<td>100 Hz to 15 KHz ± 3dB</td>
<td>Bass &amp; Treble (Cut Type)</td>
<td>2 x 8 Ohms (20 Watt each)</td>
<td>Wrong Battery Polarity</td>
<td>11.500 (with Battery)</td>
</tr>
</tbody>
</table>

**MP - 80U**

75W DC 12V, 2 Mike 1 Aux, USB /SD Card Player & Recorder with FM

**Features**
- With In-built Bluetooth Facility

**MP - 25**

P.A. Waist Band Amplifier

6 Watt Amplifier with inbuilt USB / FM Player Function and Head Mike
Ideal for Tour Guide, Small Meetings & Mobile Publicity.

**JK - 3M**

P. A. Microphone Extension

JK-3M is used as a Pre-Mic Input Extension. It is used to extend the number of microphones inputs in an Amplifier or a Portable PA System. 3 microphones can be attached using JK-3M in a single mic input.
PORTABLE P.A. SYSTEMS & P. A. MEGAPHONES


MP - 65UE

50W DC 12V, 2 Mike 1 Aux
USB /SD Card Player & Recorder with FM
In-built ECHO Facility

Features:
- Dry Cell & 12 V Battery Operations
- All ABS body, sturdy yet lightweight
- Built in Siren
- Microphone with volume control and press to talk switch
- Ideal for mobile applications like field publicity, controlling chaos

MP - 65UEC

50W DC 12V, 2 Mike 1 Aux,
USB /SD Card Player & Recorder with FM
One VHF Hi-Band Cordless Mike
In-built ECHO Facility

Features:
- M13 Compatible USB Port / SD MMC Port
- One VHF High Band Cordless Microphone.
- 1 XLR Microphone included.
- 1 8 inch Hi-Fi Speakers inbuilt.
- Inbuilt Echo
- AC 220-240V 50/60 Hz,
- DC 12V 7.5 Ah (Inbuilt) Rechargeable Battery
- High Quality Wooden Enclosure in Carpet Finish

MG - 220D

25W DC 12V Shoulder Sling Type

Features:
- Dry Cell & 12 V Battery Operations
- All ABS body, sturdy yet lightweight
- Built in Siren
- Microphone with volume control and press to talk switch
- Ideal for mobile applications like field publicity, controlling chaos

MG - 220B

25W DC 12V Hand Held Type

Features:
- Dry Cell & 12 V Battery Operations
- All ABS body, sturdy yet lightweight
- Built in Siren
- Microphone with volume control and press to talk switch
- Ideal for mobile applications like field publicity, controlling chaos

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MG - 220 D</th>
<th>MG - 220 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER REQ.</td>
<td>DC 12 V (Car Battery / 8 x UM-1 cell)</td>
<td>DC 12 V (Car Battery / 8 x UM-2 cell)</td>
</tr>
<tr>
<td>POWER OUTPUT</td>
<td>25 W (Max.)</td>
<td>25 W (Max.)</td>
</tr>
<tr>
<td>MICROPHONE</td>
<td>Unidirectional Dynamic with Volume Control &amp; Press to Talk Switch</td>
<td>Unidirectional Dynamic with Volume Control &amp; Press to Talk Switch</td>
</tr>
<tr>
<td>SIREN</td>
<td>1 Tone inbuilt</td>
<td>1 Tone inbuilt</td>
</tr>
<tr>
<td>VOICE RANGE</td>
<td>400 meter (1000 meter in Quiet Area)</td>
<td>400 meter (1000 meter in Quiet Area)</td>
</tr>
<tr>
<td>DIMENSION (MM)</td>
<td>Horn Ø220 Length 370</td>
<td>Horn Ø220 Length 370</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>All ABS Body</td>
<td>All ABS Body</td>
</tr>
<tr>
<td>WEIGHT Approx.</td>
<td>2.200 Kg.</td>
<td>2.200 Kg.</td>
</tr>
</tbody>
</table>
P. A. MEGAPHONES

MP - 903U
40W DC 12V, 2 Mike 1 Aux

- inbuilt USB / SD Card Player
- Features:
  - Built in 4 Ohms horn speaker.
  - Built in USB / SD Card Player
  - Dual power source amplifier AC mains, 12 V DC (car battery) or 12 V DC (8 x 1.5 v UM-1 dry cells).
  - Provision to connect an external 8 Ohms speaker.
  - Rugged unit finished with weather resistant paint.
  - Ideal for mobile applications like field publicity, controlling chaos etc.

MP - 20
10W DC 12V, 1 Mike

- Features:
  - Built in 4 Ohms horn speaker.
  - Dual power source amplifier: 6 V DC (external battery) or 7.5 V DC (5 x 1.5 v UM-1 cells)
  - Tone control.
  - Volume control with on / off facility.
  - Rugged unit finished with weather resistant paint.
  - Ideal for mobile applications like field publicity, controlling chaos etc.

MP - 89U
20W DC 12V, 2 Mike 1 Aux

- inbuilt USB / SD Card Player
- Features:
  - Built in 8 Ohms horn speaker.
  - Built in USB / SD Card Player
  - Dual power source amplifier: 12 V DC (car battery) or 12 V DC (8 x 1.5 v UM-1 dry cells).
  - Tone control.
  - Provision to connect an external 8 Ohms speaker.
  - Rugged unit finished with weather resistant paint.
  - Ideal for mobile applications like field publicity, controlling chaos etc.

MP - 89
20W DC 12V, 2 Mike 1 Aux

- Features:
  - Built in 8 Ohms horn speaker.
  - Dual power source amplifier: 12 V DC (car battery) or 12 V DC (8 x 1.5 v UM-1 dry cells).
  - Tone control.
  - Provision to connect an external 8 Ohms speaker.
  - Rugged unit finished with weather resistant paint.
  - Ideal for mobile applications like field publicity, controlling chaos etc.

MG - 220UR
25W DC 12V

- Features:
  - 25W DC 12V (Car Batt. / 8 x UM-1 cell)
  - Shoulder Sling Type
  - 3 Tone Siren
  - Inbuilt USB / SD Card Player
  - MP3 Player & Recording

MG - 100SR
15W DC 3.7V

- Features:
  - 15W DC 3.7V Inbuilt Rechargeable Battery
  - Hand held Type
  - 3 Tone Siren & Recording

---

**TABLE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MP - 903</th>
<th>MP - 20</th>
<th>MP - 89U</th>
<th>MP - 89</th>
<th>MG - 220UR</th>
<th>MG - 100SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER REQ.</td>
<td>AC 220-240 V50/60 Hz</td>
<td>DC 12 V (Car Battery / 8 x UM-1 cell)</td>
<td>DC 12V (Car Battery / 8 x UM-1 cell)</td>
<td>DC 12 V (Car Battery / 8 x UM-1 cell)</td>
<td>DC 12 V (Car Battery / 8 x UM-1 cell)</td>
<td>DC 3.7V Inbuilt Rechargeable Battery</td>
</tr>
<tr>
<td>INPUT CHANNELS</td>
<td>2 Mikes / 1 Aux.</td>
<td>1 Mike</td>
<td>2 Mikes 1 Aux</td>
<td>2 Mikes 1 Aux</td>
<td>USB /SD Card Player</td>
<td>-</td>
</tr>
<tr>
<td>POWER OUTPUT</td>
<td>40 W (Max.)</td>
<td>10 W (Music Power)</td>
<td>20 W (Music Power)</td>
<td>20 W (Music Power)</td>
<td>25 W (Music Power)</td>
<td>15 W (Music Power)</td>
</tr>
<tr>
<td>MICROPHONE</td>
<td>Unidirectional Dynamic</td>
<td>Unidirectional Dynamic</td>
<td>Unidirectional Dynamic</td>
<td>Unidirectional Dynamic</td>
<td>Unidirectional Dynamic</td>
<td>Unidirectional Dynamic</td>
</tr>
<tr>
<td>SIREN</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3 Tone Siren</td>
<td>3 Tone Siren</td>
</tr>
<tr>
<td>VOICE RANGE</td>
<td>600 meter (1500 meter in Quiet Area)</td>
<td>300 meter (700 meter in Quiet Area)</td>
<td>300 meter (700 meter in Quiet Area)</td>
<td>300 meter (700 meter in Quiet Area)</td>
<td>300 meter (700 meter in Quiet Area)</td>
<td>200 meter (500 meter in Quiet Area)</td>
</tr>
<tr>
<td>WEIGHT Approx.</td>
<td>4.000 Kg.</td>
<td>1.700 Kg. (with Battery)</td>
<td>2.800 Kg</td>
<td>2.800 Kg.</td>
<td>1.270 Kg</td>
<td>0.565 Kg</td>
</tr>
</tbody>
</table>

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The Lectern is an attractive public address podium that features an all-in-one design with built-in 60W amplifier, 60W column speaker with one tweeter and three woofers. Two flexible gooseneck microphone, one reading lamp, two VHF microphone are provided as well. Available in black finish, wooden top and steel bottom, steel body.

**Features**

- MP3 Compatible USB / SD Card Port with Recording Facility and FM Player.
- Built-in RMS 60W amplifier (4 ohms output)
- Built-in three 4” woofer and one 2” tweeter
- Two flexible gooseneck microphone & one reading lamp
- MIC2/Line input and stereo music input
- Line output and REC output
- Bass, treble aux,Mic1 and Mic2/Line volume control
- Extra output for amplifier
- Extra output for speaker (one 4 ohms speaker/ two 8 ohms speakers parallel connection)
- AC power switch and light power switch
- AC 220V, 50Hz power operation
- Wooden top, steel body and bottom
- Black or white finish

**Specification**

- **Power supply**: AC 230V/50Hz
- **Rated power output**: 60W
- **Frequency response**: 100Hz-16000Hz
- **Power consumption**: 100W
- **Inputs**
  - Mic1: -50dB±2dB 1.5/680Ω
  - Mic2: -55dB±2dB 1.5/600Ω
  - Line: -20dB±2dB 1.5/50Ω
  - Aux: -20dB±2dB 1.5/10KΩ
  - 2.-15dB±2dB 1.5/30KΩ

- **Frequency Range**: VHF 220-270 Mhz
- **Modulation Mode**: VHF
- **Output**: 1W/5dB
- **Tone control**: Bass 10dB/Treble 10dB
- **Paging range**: 15-30 meters
- **Dimensions (mm)**: 580(L)x420(W)x1100(H)
- **Weight (Approx.)**: 30Kg

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**TWO WAY - INTERCOM MICROPHONE**

**FF - 40**

**Features**
- This product is a professional duplex intercom system, ideal for the bank, securities, hospital, bus station etc. where guard glass against theft is installed.
- Adjustable volume with separate switch.
- Spare record jack for external recording function.
- Anti-interference and noise-free function.

**Specifications**
1. Power Adapter: Input AC 220V, Output AC 14V
2. Frequency Response: 80Hz-14KHz
3. Desktop Unit Dimensions: 145x135x56mm
4. Gooseneck length: 355mm
5. Wall Mount Unit Dimension: 70x70x20mm

---

**CONFERENCE SYSTEM**

**MCA-100**

- Advanced acoustic design with attractive look & design.
- Easy to operate.
- Excellent speech intelligibility.
- User friendly interface with LCD display.
- Embedded high performance CPU.
- High effect circuit ensure the anti-interference function.
- With auto off and time off speaking mode.
- Highly flexible & customizable wired system supporting 5 Chairman & 120 Delegate Units.
- Meeting mode includes FIFO, LIFO, Limitation, Free and chairman only etc.
- Audio Output of Conference Amplifier MCA-100 Should Be Connected to an Amplifier which in turn should be connected to Wall / Ceiling Speakers.

---

**MCC-101**

**MCD-102**

**MCC-103**

**MCD-104**

---

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P.A. Microphones

- P.A. Wireless Microphones
- P.A. Professional Microphones
- P.A. Economy Microphones

- P.A. Tie Pin Mike
- P.A. Chime Tone Mike
**P.A. WIRELESS MICROPHONES**

**MU - 2010**

**Features**
- Table-top space diversity receiver with detachable BNC antennas.
- Unbalanced audio output through ¼" jack socket and balanced audio output through a 3 pin XLR male socket.
- 16x2 selectable frequency design that allows two microphone to be used at the same time without mutual interference.
- Perfect operative status signals, fluorescence display, with digital microphone.
- Microphone operates with 1.5v x 2 and Receiver operates on an AC Adaptor, which are supplied along with the system.
- Microphone has a 3-position push switch for Audio ON, Audio MUTE and OFF conditions.
- Distance coverage more than 300 feet.

### RECEIVER Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Frequency Range</td>
<td>UHF 610 to 810 MHz</td>
</tr>
<tr>
<td>Frequency Stabilization</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Switching Bandwidth</td>
<td>24 MHz</td>
</tr>
<tr>
<td>Receiving Sensitivity</td>
<td>105dBm (S/N &gt; 12dB 15KHz)</td>
</tr>
<tr>
<td>RF Image Spurious Rejection</td>
<td>&gt; 75dBm</td>
</tr>
<tr>
<td>Border upon Channel Rejection</td>
<td>&gt; 90dB</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>AC 220-240V for AC Adapter</td>
</tr>
<tr>
<td>Antenna</td>
<td>Detachable through BNC Connector</td>
</tr>
</tbody>
</table>

### MICROPHONE Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter Power</td>
<td>30mW</td>
</tr>
<tr>
<td>Audio Output Level</td>
<td>0-300mv</td>
</tr>
<tr>
<td>Audio Frequency Response</td>
<td>50-15KHz(+/-3dB)</td>
</tr>
<tr>
<td>Signal/Noise Ratio</td>
<td>&gt;90dB</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt;100dB</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>1.5v x 2 Dry Battery</td>
</tr>
</tbody>
</table>

**PVD - 57L**

**Specification**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PVD - 57L</td>
<td>±0.005 %</td>
<td>VHF</td>
<td>±30 KHz</td>
<td>50-15000 Hz</td>
<td>&gt;90dB</td>
<td>&gt; 80 dB</td>
<td>&lt;0.2%</td>
<td>AC 220-240V for AC Adapter</td>
<td>9 V Dry Battery (Hand) / 9 V Dry Battery (Lapel)</td>
</tr>
</tbody>
</table>

**Features**
- VHF 220-270 MHz band to avert interfering frequency.
- Multilevel high frequency and mid frequency narrowband filter.
- It has quartz crystal oscillating circuit which makes the frequency steady.
- With audio compressing expanding technology, the machine can lower noises and increase the dynamic range. It can also lower reecho.
- Longest distance in open: 30 Feet.
- It is suitable for stages, ballrooms, auditoria, classroom and families.

**PVD - 57H**

**Specification**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PVD - 57H</td>
<td>±0.005 %</td>
<td>VHF</td>
<td>±30 KHz</td>
<td>50-15000 Hz</td>
<td>&gt;90dB</td>
<td>&gt; 80 dB</td>
<td>&lt;0.2%</td>
<td>AC 220-240V for AC Adapter</td>
<td>9 V Dry Battery (Hand) / 9 V Dry Battery (Lapel)</td>
</tr>
</tbody>
</table>
P.A. WIRELESS MICROPHONES

MV - 60H

MV - 60L

Features:
- Elegant and high performance Dual channel VHF wireless microphone.
- VHF 174-270 MHz band to avert interfering frequency.
- MV-60H features a 2 VHF high band Hand Microphone
- MV-60L features 1 tie-clip Microphone with a VHF high band body-pack transmitter and 1 VHF high band Hand Microphone.
- Multilevel high frequency and mid frequency narrowband filter, so as to dispel any possible.
- It has quartz crystal oscillating circuit which makes the frequency steady.
- Transmitter has an on ON/MUTE/OFF switch and a LED for ON indication.
- Power ON/OFF switch and output volume control on the front panel and 1/4" (6.3mm) phone jack for audio output on the rear panel of the receiver.
- With audio compressing expanding technology, the machine can lower noises and increase the dynamic range. It can also lower reecho.
- Longest distance in open : 90 Feet.
- It is suitable for stages, ballrooms, auditoria, classroom and Place of Worship etc.

Specification

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MV - 60H</td>
<td>±0.005 %</td>
<td>VHF Frequency Modulated</td>
<td>±30 KHz</td>
<td>43-20000 Hz</td>
<td>&gt;85dB</td>
<td>&gt;= 80 dB</td>
<td>&lt;=0.2%</td>
<td>-10C~50C</td>
<td>AC 220 240 V for AC Adapter / DC 12~18 V</td>
</tr>
<tr>
<td>MV - 60L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Head Mike Accessory

HPM - 100

Sleek, elegant & reliable Headband microphone. It can be worn around the head and the microphone positioned close to the lips. This allows the speaker to have his hands free and prevents background room noises from being freely picked up the microphone.

HPM - 75

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DM - 868

DM-868 is a RETRO STYLE MICROPHONE. A specially designed internal shock mount minimizes the rumble caused by microphone handling or stand vibration during the performance. The microphone is supplied with a rugged stand adaptor (5/8” thread), reed switch and carrying case. This dynamic, nostalgic microphone is perfect for performers, who want the look and feel of the 50’s and 60’s. The microphone features a smooth, wide frequency response, and a neodymium magnet for added impact in live vocal performances.

1000 - XLR

Highly sensitive microphone suitable for PA applications, Stage & Auditoriums, Stadia, Seminar Halls etc Supplied with quick detachable holder and 6 mtrs 2 core shielded low noise cable.

HM - 780

Excellent intelligibility & wide frequency response. Attractive appearance. Ideal for live vocal and music application. Supplied with quick detachable holder and 6 mtrs 2 core shielded low noise cable.

HM - 580

Upper mid range presence peak for intelligible sound and ideal for close to lip singing. Supplied with quick detachable holder and 6 mtrs 2 core shielded low noise cable.

HM - 293

All purpose PA microphone reproducing intelligible, crisp and a bright sound. Suitable for multi-purpose PA installations. Supplied with quick detachable holder and 6 meters shielded low noise cable.

98 - XLR

Excellent intelligibility & wide frequency response. Attractive appearance. Supplied with quick detachable holder and 6 mtrs 2 core shielded low noise cable.

<table>
<thead>
<tr>
<th>Specification</th>
<th>DM - 868</th>
<th>1000 - XLR</th>
<th>HM - 780</th>
<th>HM - 580</th>
<th>HM - 293</th>
<th>98 - XLR</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>DM - 868</td>
<td>1000 - XLR</td>
<td>HM - 780</td>
<td>HM - 580</td>
<td>HM - 293</td>
<td>98 - XLR</td>
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<tr>
<td>Frequency Response</td>
<td>50-16000 Hz</td>
<td>50-16000 Hz</td>
<td>50-16000 Hz</td>
<td>50-16000 Hz</td>
<td>50-16000 Hz</td>
<td>50-16000 Hz</td>
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<td>Directivity</td>
<td>Cardioid</td>
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<td>Unidirectional</td>
<td>Unidirectional</td>
<td>Unidirectional</td>
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<tr>
<td>Sensitivity</td>
<td>2.1 mV/Pa</td>
<td>1.6 mV/Pa</td>
<td>2.0 mV/Pa</td>
<td>2.0 mV/Pa</td>
<td>2.0 mV/Pa</td>
<td>2.9 mV/Pa</td>
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<tr>
<td>Impedance Type</td>
<td>200 ohms</td>
<td>250 ohms</td>
<td>300 ohms</td>
<td>300 ohms</td>
<td>300 ohms</td>
<td>600 ohms</td>
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<tr>
<td>Housing</td>
<td>Zinc Die Cast</td>
<td>Zinc Die Cast</td>
<td>Metallic</td>
<td>Metallic</td>
<td>Metallic</td>
<td>Metallic</td>
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<tr>
<td>Connector</td>
<td>3 Pin XLR</td>
<td>3 Pin XLR</td>
<td>3 Pin XLR</td>
<td>3 Pin XLR</td>
<td>3 Pin XLR</td>
<td>3 Pin XLR</td>
</tr>
</tbody>
</table>
PT - 400

Handheld microphone designed for close talking applications and is ideal for short announcements. Provided with press to talk switch on the side. Rugged construction with ABS resin finished with black color. Easy to handle with excellent speech reproduction. Connected with coil cord PVC lead with P - 38 plug at the end which is compatible for all pa systems. Provided with metal clamp to hang it safely. Ideal for police, ambulances, fire brigades, megaphones.

100 - XLR

Rugged and Reliable PA Microphone. Ideal for Addressing audience or for amateur artists. Supplied with quick detachable holder and 6 mtrs 2 core shielded low noise cable.

HM - 673

For general PA applications, a robust and reliable microphone. Supplied with quick detachable holder and 4.5 mtrs shielded cable.

99 - XLR

A Basic Microphone for Karaoke and PA Application. Supplied with 4.5 Mtrs shielded cable.

TM - 93 (TIE PIN MIKE)

Miniature omnidirectional electret condenser lavalier type microphone with wide angle pick-up. A strong, fixed tie-clip prevents the microphone from being displaced accidentally. The cell container with On/Off Switch is provided to accommodate a single pencil cell. The cable length is 10 mtrs. Ideal for lectures, interviews, religious places, recordings etc. Power Supply : DC 1.5 V (UM-3 Battery X 1)

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Response</th>
<th>Directivity</th>
<th>Sensitivity</th>
<th>Impedance Type</th>
<th>Housing</th>
<th>Trans. Principle</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT - 400</td>
<td>200-6000 Hz</td>
<td>Unidirectional</td>
<td>2.0 mV/Pa</td>
<td>600 ohms</td>
<td>Metallic</td>
<td>Dynamic</td>
<td>P - 38 with Coil Cord</td>
</tr>
<tr>
<td>100 - XLR</td>
<td>50-15000Hz</td>
<td>Unidirectional</td>
<td>2.5 mV/Pa</td>
<td>600 ohms</td>
<td>Metallic</td>
<td>Dynamic</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>HM - 673</td>
<td>50-15000Hz</td>
<td>Unidirectional</td>
<td>2.5 mV/Pa</td>
<td>600 ohms</td>
<td>Metallic</td>
<td>Dynamic</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>99 - XLR</td>
<td>50-15000Hz</td>
<td>Unidirectional</td>
<td>2.5 mV/Pa</td>
<td>600 ohms</td>
<td>Metallic</td>
<td>Dynamic</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>Camera Mike</td>
<td>100-16000Hz</td>
<td>Unidirectional</td>
<td>2.5 mV/Pa</td>
<td>600 ohms</td>
<td>Metallic</td>
<td>Dynamic</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>TM - 93</td>
<td>100-15000Hz</td>
<td>Omnidirectional</td>
<td>4.0 mV/Pa</td>
<td>1 K ohms</td>
<td>Metallic</td>
<td>Condenser</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>Camera Mike</td>
<td>100-15000Hz</td>
<td>Omnidirectional</td>
<td>4.0 mV/Pa</td>
<td>1 K ohms</td>
<td>Metallic</td>
<td>Condenser</td>
<td>3 Pin XLR</td>
</tr>
<tr>
<td>Camera Mike</td>
<td>100-15000Hz</td>
<td>Condenser</td>
<td>4.0 mV/Pa</td>
<td>1 K ohms</td>
<td>Metallic</td>
<td>Condenser</td>
<td>3 Pin XLR</td>
</tr>
</tbody>
</table>
### P.A. MICROPHONES

#### Recognised Export House of India


### ECONOMY SERIES MICROPHONES

#### MPM - 112

Economy model microphone for Karaoke and PA application. Supplied with 4.5 meters shielded cable.

#### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Response</th>
<th>Directivity</th>
<th>Sensitivity</th>
<th>Impedance Type</th>
<th>Housing</th>
<th>Tran. Principle</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPM - 112</td>
<td>60-14000 Hz</td>
<td>Unidirectional</td>
<td>2.0 mV/Pa</td>
<td>630 ohms</td>
<td>Plastic</td>
<td>Dynamic</td>
<td>3 Pin XLR</td>
</tr>
</tbody>
</table>
P.A. HORN & DRIVER UNITS


REFLEX HORNS

- RH-21 53 cm. 18 SWG (21 Inches)
- RH-18 45 cm. 18 SWG (18 Inches)

Features
- Rugged horn made of aluminum for optimum strength and low weight.
- Covered with PVC ring on the flare to protect against impact damage.
- Provided with sturdy adjustable "U" bracket allowing the loudspeaker to be accurately directed.
- Excellent speech reproduction and sound distribution for a wide scope of outdoor installations.
- Ideal for all Mega Driver Units for an efficient, powerful and clear sound.
- All sizes of horns can be installed with any Mega Driver Units.

TRUMPET HORNS

- T-24 58 cm. 18 SWG (23 Inches)
- T-20 53 cm. 18 SWG (21 Inches)

Features
- Horn Flare : Aluminum, Dark Gray, Powder Coating.
- Reflector Horn : Aluminum, Dark Gray, Powder Coating.
- Flange : Aluminum, Dark Gray, Powder Coating.
- U Bracket : M. S., Dark Gary, Powder Coating.
- Screws and Bolts : M. S.

DRIVER UNITS

- HM - 30
- HM - 40
- HM - 65
- HM - 100
- HM - 55 T with LMT

Features
- FLANGE
- REAR COVER
- CONNECTION

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Continuous Power</th>
<th>Music Power</th>
<th>Impedance</th>
<th>Frequency Response</th>
<th>Coupling</th>
<th>Weight Kg. (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM-30</td>
<td>30 WATTS</td>
<td>45 WATTS</td>
<td>16 OHMS</td>
<td>160-7000 Hz</td>
<td>1-3/8&quot; X 10 Tp</td>
<td>1.300</td>
</tr>
<tr>
<td>HM-40</td>
<td>40 WATTS</td>
<td>60 WATTS</td>
<td>16 OHMS</td>
<td>160-7000 Hz</td>
<td>1-3/8&quot; X 10 Tp</td>
<td>1.400</td>
</tr>
<tr>
<td>HM-65</td>
<td>65 WATTS</td>
<td>100 WATTS</td>
<td>16 OHMS</td>
<td>160-7000 Hz</td>
<td>1-3/8&quot; X 10 Tp</td>
<td>2.000</td>
</tr>
<tr>
<td>HM-100</td>
<td>100 WATTS</td>
<td>120 WATTS</td>
<td>16 OHMS</td>
<td>160-7000 Hz</td>
<td>1-3/8&quot; X 10 Tp</td>
<td>2.200</td>
</tr>
<tr>
<td>HM-55 T</td>
<td>40 WATTS</td>
<td>55 WATTS</td>
<td>100V LINE 5,10,20,30,40,55W</td>
<td>160-7000 Hz</td>
<td>1-3/8&quot; X 10 Tp</td>
<td>2.300</td>
</tr>
</tbody>
</table>

DIAPHRAGMS

Paper Coil Diaphragms:
- Reinforced phenolic diaphragms with a precision-wound voice coil on paper bobbin.
- Available in round dome.

Aluminum Foil Diaphragms:
- Reinforced phenolic diaphragms with a precision-wound voice coil on aluminum foil bobbin.
- Best for heat dissipation which makes the diaphragm safe.
- Available in round dome.
**LOW IMPEDANCE P.A. UNIT HORN COMBINATION**


### IM - 40 40 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.220 Kg.
  - Size: 165L x 165W X 155H
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 40 W (MAX)
  - Spectral: 106 dB

### IM - 80 60 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.380 Kg.
  - Size: 205L x 205W x 162H
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 60 W (MAX)
  - Spectral: 112 dB

### P - 110 40 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.500 Kg.
  - Size: 215L x 280W x 166H
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 40 W (MAX)
  - Spectral: 108 dB

### UHC - 15 25 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.220 Kg.
  - Size: 165L x 165W X 155H
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 25 W (MAX)
  - Spectral: 106 dB

### UHC - 25 40 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.380 Kg.
  - Size: 205L x 205W x 162H
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 40 W (MAX)
  - Spectral: 112 dB

### UHC - 30 45 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.500 Kg.
  - Size: 275L X 307L
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 45 W (MAX)
  - Spectral: 108 dB

### PUH - 60 60 Watts
- **Features**
  - Horn Flare: ABS Resin, Light Grey
  - Reflector Horn: ABS Resin, Dark Grey
  - Rear Cover: ABS Resin, Dark Grey
  - U’ Bracket: C.R.C., Dark Grey, Powder Coating
  - Screws And Bolts: M.S.
  - Speaker Cable: PVC. Cable
- **Specification**
  - Weight: 1.380 Kg.
  - Size: 205 Ø (275 L)
  - Impedance: 8 Ohms
  - Frequency Response: 250-10000 Hz
  - Power: 60 W (MAX)
  - Spectral: 112 dB

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### UHC - 15XT
- **Model**: PUH - 60XT
- **Input Power Tape**: 40 W (RMS), 60 W (MAX)
- **Impedance**: 100 V LINE
- **Frequency Response**: 180-7000 Hz
- **Type**: ABS PLASTIC
- **Size (mm)**: 310, X 300W X 185H
- **Freq At 1 KHz**: 112.5 dB
- **Weight Kg (approx.)**: 2.380

### UHC - 15XT
- **Model**: UHC - 15XT
- **Input Power Tape**: 15 W (RMS), 25 W (MAX)
- **Impedance**: 100 V LINE
- **Frequency Response**: 275-7000 Hz
- **Type**: ABS PLASTIC
- **Size (mm)**: 315, X 320W X 185H
- **Freq At 1 KHz**: 112.5 dB
- **Weight Kg (approx.)**: 1.700

### UHC - 25XT
- **Model**: UHC - 25XT
- **Input Power Tape**: 25 W (RMS), 40 W (MAX)
- **Impedance**: 100 V LINE
- **Frequency Response**: 275-10000 Hz
- **Type**: ABS PLASTIC
- **Size (mm)**: 315, X 320W X 185H
- **Freq At 1 KHz**: 112.5 dB
- **Weight Kg (approx.)**: 2.200

### UHC - 30XT
- **Model**: UHC - 30XT
- **Input Power Tape**: 30 W (RMS), 45 W (MAX)
- **Impedance**: 100 V LINE
- **Frequency Response**: 275-10000 Hz
- **Type**: ALUMINUM
- **Size (mm)**: 315, X 320W X 185H
- **Freq At 1 KHz**: 112.5 dB
- **Weight Kg (approx.)**: 2.350

### PUH - 60XT with Tappable 100V Line
- **Model**: PUH - 60XT
- **Input Power Tape**: 40 W (RMS), 60 W (MAX)
- **Impedance**: 100 V LINE
- **Frequency Response**: 275-7000 Hz
- **Type**: ABS PLASTIC
- **Size (mm)**: 310, X 300W X 185H
- **Freq At 1 KHz**: 112.5 dB
- **Weight Kg (approx.)**: 2.380

These models have been provided with 100V line Matching Transformer with multiple taps easily selectable by changing the rotary switch at the rear of the sealed assembly.
Garden Speaker with LED

**Features**
- Embedded with 15 cm cone speaker.
- Provided with LED's to give a light effect all around.
- Connector provided to connect speaker ball and stand.
- Flexibility to switch on the light and speaker simultaneously or separately as separate connectors are provided for light and speaker in the connector box at the bottom.
- Heavy base at the bottom keeps the speaker stable.
- Security level of the ball is maintained by placing the screw at the neck of the ball.

**Applications**:
- Public or private gardens
- Open parkings
- Drive ways
- Walking tracks
- Party lawns
- Farm houses

**Features**
- Two 12.7 CM Dynamic cone speakers fitted at both the ends of the unit suitable for both speech and music.
- Fitted with adjustable U bracket for easy installation.
- Weather resistant Metallic housing and speakers with water resistant cone
- 100V Power Taps

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Garden Speaker</th>
<th>P - 310</th>
<th>CSQ - 25 T</th>
<th>CS - 1025T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Power</td>
<td>30 W</td>
<td>20 W</td>
<td>10 W</td>
<td>10 W</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 V LINE</td>
<td>100 V</td>
<td>100 V</td>
<td>100 V LINE</td>
</tr>
<tr>
<td>Tappings</td>
<td>1.5W, 3W, 6W</td>
<td>1.5W, 3W, 6W</td>
<td>1.5W, 3W, 6W</td>
<td></td>
</tr>
<tr>
<td>Dynamic Cone Speaker</td>
<td>1 X 6&quot;</td>
<td>2 X 5&quot;</td>
<td>1 X 4.5&quot;</td>
<td>1 X 6&quot;</td>
</tr>
<tr>
<td>Freq. Resp.</td>
<td>150-1000 Hz</td>
<td>160-15KHz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
</tr>
<tr>
<td>Spl @ (1W/1m)</td>
<td>92 dB</td>
<td>95dB</td>
<td>92 dB</td>
<td>92 dB</td>
</tr>
<tr>
<td>Weight Kg. (approx.)</td>
<td>5.000</td>
<td>1.800</td>
<td>0.850</td>
<td>0.700</td>
</tr>
</tbody>
</table>
P. A. CEILING SPEAKERS

Flush Mount Type Ceiling Speakers

CS - 20 T

ABS plastic grille finished in matt white

CS - 40 T

ABS plastic grille with metal punched net.

CS - 1032 T

ABS plastic grille with metal punched net.

CS - 1040 T

ABS plastic grille with metal punched net.

Features

- Flush mount 15cm dynamic cone speaker.
- Easy to install with spring catch mount.
- Connectors with screw for hooking up the wires tightly.
- 100V power taps.
- Protective dust cover at rear.
- A circular template for marking a hole is accompanied with the speaker.
- A 100 V line matching transformer is mounted behind the front panel assembly and the moulded plastic panel is mounted on the metal frame.
- Three wires on the line matching transformer provides selection of nominal full power, half power or quarter power radiation.
- Installation is quick and easy as the units have two built in spring loaded locking clamps that secure them into holes in the ceiling.
- The white color of the grille has been selected to be obtrusive in virtually all interiors.

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>CS - 20 T</th>
<th>CS - 40 T</th>
<th>CS - 1032 T</th>
<th>CS - 1040 T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Power</td>
<td>10 W</td>
<td>10 W</td>
<td>10 W</td>
<td>10 W</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
</tr>
<tr>
<td>Tappings</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
</tr>
<tr>
<td>Dynamic Cone Speaker</td>
<td>1 X 6&quot;</td>
<td>1 X 6&quot;</td>
<td>1 X 6&quot;</td>
<td>1 X 6&quot;</td>
</tr>
<tr>
<td>Freq. Resp.</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
</tr>
<tr>
<td>Spl (1w/1m)</td>
<td>92 dB</td>
<td>92 dB</td>
<td>92 dB</td>
<td>92 dB</td>
</tr>
<tr>
<td>Weight Kg. (approx.)</td>
<td>1.000</td>
<td>1.000</td>
<td>0.700</td>
<td>0.700</td>
</tr>
</tbody>
</table>

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Flush Mount Type Ceiling Speakers

**CS - 450 T**

ABS plastic grille finished in matt white

**Features**
- Protective dust cover at rear.
- A circular template for marking a hole is accompanied with the speaker.
- A 100 V line matching transformer is mounted behind the front panel assembly and the moulded plastic panel is mounted on the metal frame.
- Installation is quick and easy as the units have two built in spring loaded locking clamps that secure them into holes in the ceiling.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>CS - 450 T</th>
<th>CS - 500 T</th>
<th>CS - 550 T</th>
<th>CS - 300 T</th>
<th>WCS - 1050 T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Power</td>
<td>10 W</td>
<td>10 W</td>
<td>10 W</td>
<td>10 W</td>
<td>10 W</td>
</tr>
<tr>
<td>Impedance</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
<td>100 V LINE</td>
</tr>
<tr>
<td>Tappings</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
<td>1.5W 3W 6W</td>
</tr>
<tr>
<td>Dynamic Cone Speaker</td>
<td>1 X 4.5&quot;</td>
<td>1 X 4.5&quot;</td>
<td>1 X 4.5&quot;</td>
<td>1 X 3&quot;</td>
<td>1 X 4.5&quot;</td>
</tr>
<tr>
<td>Freq. Resp.</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
<td>60-15000 Hz</td>
</tr>
<tr>
<td>Spl @ (1w/1m)</td>
<td>92 dB</td>
<td>92 dB</td>
<td>92 dB</td>
<td>92 dB</td>
<td>92 dB</td>
</tr>
<tr>
<td>Weight Kg. (approx.)</td>
<td>0.700</td>
<td>0.700</td>
<td>0.700</td>
<td>0.580</td>
<td>0.700</td>
</tr>
</tbody>
</table>

**CS - 500 T**

ABS plastic grille with metal punched net.

**Features**
- A 100 V line matching transformer is mounted behind the front panel assembly and the moulded plastic panel is mounted on the metal frame.
- Installation is quick and easy as the units have two built in spring loaded locking clamps that secure them into holes in the ceiling.

**CS - 550 T**

ABS plastic grille with metal punched net.

**Features**
- A 100 V line matching transformer is mounted behind the front panel assembly and the moulded plastic panel is mounted on the metal frame.
- Installation is quick and easy as the units have two built in spring loaded locking clamps that secure them into holes in the ceiling.

**CS - 300 T**

Metal grille with metal punched net.

**Features**
- Ultra compact ceiling speaker.
- A 100 V line matching transformer is mounted behind the front panel.
- Mounted on the metal frame.
- Installation is quick and easy as the units have two built in spring loaded locking clamps that secure them into holes in the ceiling.

**WCS - 1050 T**

Wall mounted with 12.5 cm cone speaker for announcement and paging.
- Attractive, stylish ABS white plastic box.
- The specially designed slim speaker is obtrusive in all interiors.
- Equipped with the transformer to provide 100v line.
- Ideal for office cabin, work stations, classrooms, shops, malls etc.

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### P.A. WALL SPEAKERS

**P - 111 T**
- Wall mounted with 15 cm cone speaker for announcement and paging.
- Attractive, stylish ABS white plastic box.
- Cost effective high power PA box.
- The specially designed sculptured edge offer both style and protection.
- Equipped with the transformer to provide tappable 100V line.
- Provision to connect with 100V line and 4 ohms.
- Optional Volume control.

#### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Model Code</th>
<th>Power</th>
<th>Impedance</th>
<th>Tappings</th>
<th>Dynamic Cone Speaker</th>
<th>Freq. Resp.</th>
<th>Spl @ (1w/1m)</th>
<th>Weight Kg. (approx.)</th>
<th>Rear Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>P - 111 T</td>
<td>20 W</td>
<td>100 V LINE/4 ohms</td>
<td>2.5 W, 5 W, 10 W</td>
<td>1 x 6&quot;</td>
<td>100-15000 Hz</td>
<td>92 dB</td>
<td>1.850</td>
<td></td>
<td>PARTICLE BOARD</td>
</tr>
<tr>
<td>P - 570 T</td>
<td>10 W</td>
<td>100 V LINE</td>
<td>1.5 W, 3 W, 6 W</td>
<td>1 x 4.5&quot;</td>
<td>60-15000 Hz</td>
<td>90 dB</td>
<td>0.670</td>
<td></td>
<td>-----------</td>
</tr>
</tbody>
</table>

**P - 570 T**
- Wall mounted with 12.5 cm cone speaker for announcement and paging.
- Attractive, stylish ABS white plastic box.
- The specially designed slim speaker is obtrusive in all interiors.
- Equipped with the transformer to provide 100V line.
- Ideal for office cabin, work stations, classrooms, shops, malls etc.
- Optional Volume control.

### PS - 502T
- High fidelity 2-Way, 100V multi purpose PA speaker system.
- Movable U type bracket mounting for convenient wall mounting of the speaker.
- Ideal for background music and general PA application.
- Attractive, stylish ABS white plastic body.
- Cost Effective high power PA box.
- Provision to connect with 100 V line.

### MVC - 1030
- 30 W (for 100V Line)
- Volume Controls

Compatible with All wall and ceiling speakers which have 100V line matching transformer, it enables the user to conveniently adjust the volume of speakers or group of speakers connected to it.
### P.A. WOODEN WALL MOUNT SPEAKERS

**DWS - 18T**

- **Power:** 18W (Max) 12W RMS
- **Impedance:** 100V Line
- **Tapping:** 3W, 6W, 12W
- **Dimension:** 226x130x197mm
- **Weight (approx.):** 1.700

**CWS - 12T**

- **Power:** 9W (Max) 6W RMS
- **Impedance:** 100V Line
- **Tapping:** 1.5W, 3W, 6W
- **Dimension:** 227x130x115mm
- **Weight (approx.):** 1.100

**WS - 9T**

- **Power:** 9W (Max) 6W RMS
- **Impedance:** 100V Line
- **Tapping:** 1.5W, 3W, 6W
- **Dimension:** 227x130x115mm
- **Weight (approx.):** 1.200

**WS - 18T**

- **Power:** 18W (Max) 12W RMS
- **Impedance:** 100V Line
- **Tapping:** 3W, 6W, 12W
- **Dimension:** 428x130x115mm
- **Weight (approx.):** 2.300

**WS - 36T**

- **Power:** 36W (Max) 24W RMS
- **Impedance:** 100V Line
- **Tapping:** 6W, 12W, 24W
- **Dimension:** 829x130x115mm
- **Weight (approx.):** 4.500

### Features
- High quality MDF Board Structure for Better Background Score.
- Simple, Tasteful design harmonizes well and virtually any building interior.
- Angled Front Baffle Design.
- Push terminals to allow selection of power.
- Quick and simple Installation with mounting brackets.
- Excellent frequency response.
- High sound pressure level.
- Wide opening angle.
- In-built 100V line matching transformer.

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>DWS - 18T</th>
<th>CWS - 12T</th>
<th>WS - 9T</th>
<th>WS - 18T</th>
<th>WS - 36T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Power</td>
<td>18W (Max) 12W RMS</td>
<td>9W (Max) 6W RMS</td>
<td>9W (Max) 6W RMS</td>
<td>18W (Max) 12W RMS</td>
<td>36W (Max) 24W RMS</td>
</tr>
<tr>
<td>Impedance</td>
<td>100V Line</td>
<td>100V Line</td>
<td>100V Line</td>
<td>100V Line</td>
<td>100V Line</td>
</tr>
<tr>
<td>Tapping</td>
<td>3W, 6W, 12W</td>
<td>1.5W, 3W, 6W</td>
<td>1.5W, 3W, 6W</td>
<td>3W, 6W, 12W</td>
<td>6W, 12W, 24W</td>
</tr>
<tr>
<td>Dimension</td>
<td>226x130x197mm</td>
<td>227x130x115mm</td>
<td>227x130x115mm</td>
<td>428x130x115mm</td>
<td>829x130x115mm</td>
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<tr>
<td>Weight Kgs (approx.)</td>
<td>1.700</td>
<td>1.100</td>
<td>1.200</td>
<td>2.300</td>
<td>4.500</td>
</tr>
</tbody>
</table>

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P. A. COLUMN SPEAKER

MCS - 10

High quality, low cost, slimline, rugged loudspeaker made of weather proof metal.
Simple, tasteful design harmonizes well and virtually any building interior, making them a perfect choice for use in gathering places like religious facilities, school auditoriums and other public places.

MCS - 20

Aluminum Sheet Finished

C.R.C. SHEET finished with Light ash grey

Features
- High quality, low cost, slimline, rugged loudspeaker made of weather proof metal.
- Simple, tasteful design harmonizes well and virtually any building interior, making them a perfect choice for use in gathering places like religious facilities, school auditoriums and other public places.
- Easy to set-up and install either vertically or horizontally to change the speaker coverage area by using supplied mounting brackets.
- Available in grey or white colour.

SCM - 30 XT

Aluminum Sheet Finished

APPLICATIONS:
- Ideal for places of worship
- Auditoriums
- Railway Platforms
- Bus Terminals
- Airports
- Shopping Malls
- Schools
- Markets
- Factories
- Unique and handsome design blends in modern buildings and other facilities, such as boutique restaurants and amusement park
- Can be used outdoors unless exposed directly to the rain
- Easy to set-up and install either vertically or horizontally to change the speaker coverage area by using supplied mounting brackets
- Other public places.

MCS - 30

Aluminum Sheet Finished

MCS - 20

Aluminum Sheet Finished

D - 905 T

D - 904 T

Features
- High quality, low cost, slimline, rugged loudspeaker made of weather proof metal.
- Simple, tasteful design harmonizes well and virtually any building interior, making them a perfect choice for use in gathering places like religious facilities, school auditoriums and other public places.
- Easy to set-up and install either vertically or horizontally to change the speaker coverage area by using supplied mounting brackets.
- Available in grey or white colour.

APPENDIX:

<table>
<thead>
<tr>
<th>Model</th>
<th>Music Power</th>
<th>Impedance</th>
<th>Tapping</th>
<th>Dynamic Cone Speaker</th>
<th>Frequency Response</th>
<th>Spl @ (1w/1m)</th>
<th>Weight Kg. (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS - 10</td>
<td>10W (Max.) 6W RMS</td>
<td>100V Line</td>
<td>4W, 6W, 12W</td>
<td>2 x (5” x 3”)</td>
<td>150 - 10000 Hz</td>
<td>90dB</td>
<td>2.100</td>
</tr>
<tr>
<td>MCS - 20</td>
<td>15W (Max.) 9W RMS</td>
<td>100V Line</td>
<td>7.5W, 15W, 20W</td>
<td>3 x (5” x 3”)</td>
<td>150 - 10000 Hz</td>
<td>92dB</td>
<td>2.400</td>
</tr>
<tr>
<td>MCS - 30</td>
<td>20W (Max.) 12W RMS</td>
<td>100V Line</td>
<td>15W, 20W, 30W</td>
<td>4 x (6” x 4”)</td>
<td>150 - 10000 Hz</td>
<td>95dB</td>
<td>3.000</td>
</tr>
<tr>
<td>SCM - 30 XT</td>
<td>30W (Max.) 18W RMS</td>
<td>100V Line</td>
<td>10W, 15W, 20W</td>
<td>2 x (6” x 4”)</td>
<td>150 - 10000 Hz</td>
<td>92dB</td>
<td>3.000</td>
</tr>
<tr>
<td>D - 905 T</td>
<td>20W (Max.) 10W RMS</td>
<td>100V Line</td>
<td>7.5W, 15W, 20W</td>
<td>1 x (8” x 4”)</td>
<td>150 - 10000 Hz</td>
<td>90dB</td>
<td>2.400</td>
</tr>
<tr>
<td>D - 904 T</td>
<td>10W (Max.) 7W RMS</td>
<td>100V Line</td>
<td>15W, 20W, 30W</td>
<td>1 x (8” x 4”)</td>
<td>150 - 10000 Hz</td>
<td>90dB</td>
<td>2.100</td>
</tr>
</tbody>
</table>

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P.A. SOUND COLUMNS


P - 802   50 Watts

Features
- One way speaker system fitted with two full range 200 mm speaker.
- Small and compact general purpose speaker column.
- Rugged unit made of medium density board.
- Reproduction of clean undistorted sound suitable for both speech and music.

Specifications
- Model: P - 802
- Input Power: 50 W
- Configuration: One Way
- Low Freq. Speaker: 2 X 8" (80 mm Magnet 1" VC)
- High Freq. Unit: None
- Impedance: 8 Ohms
- Port: Sealed Enclosure
- Input Connectors: ¼" Input Jack + Terminal Strip
- Freq. Response: 55 Hz - 20 KHz
- Dim. (W X D X H): 300 x 225 x 630 mm

P - 112T  100 Watts

Features
- Professional 2-Way PA Speaker System to provide superb LF Response, High Efficiency and Long Throw with Excellent Sound Intelligibility.
- Ability to handle 200 watts continuous power with clean undistorted sound.
- Ideal for both speech and music.
- Suitable for the installation on the floor with the protection provided at the base in the form of gromets.
- A stand adapter is provided at the bottom for pole mounting.
- P - 120T uses one MS - 1235 Speakers.

Specifications
- Model: P - 112T
- Input Power: 100 W
- Configuration: Two Way
- Low Freq. Speaker: 1 X 12" (MS-1235)
- High Freq. Unit: Piezo HF
- Impedance: 8 Ohms
- Port: Free Flow Flared
- Input Connectors: ¼" Input Jack + Terminal Strip
- Freq. Response: 50 Hz - 20 KHz
- Dim. (W X D X H): 410 x 615 x 305 mm

P - 120T  100 Watts

Features
- Superior quality speaker system delivers a good combination of bass and treble.
- Rugged unit made of 18 mm board covered with black carpet.
- Ability to handle 100 watts continuous power with clean undistorted sound.
- Ideal for both speech and music.
- Suitable for the installation on the floor with the protection provided at the base in the form of gromets.
- A stand adapter is provided at the bottom for pole mounting.
- P - 120T uses one MS - 1235 Speakers.

Specifications
- Model: P - 120T
- Input Power: 100 W
- Configuration: Two Way
- Low Freq. Speaker: 1 X 12" (MS-1235)
- High Freq. Unit: Piezo HF
- Impedance: 8 Ohms
- Port: Free Flow Flared
- Input Connectors: ¼" Input Jack + Terminal Strip
- Freq. Response: 50 Hz - 20 KHz
- Dim. (W X D X H): 415 x 305 x 630 mm

P - 200T  200 Watts

Features
- Compact 2-Way Floor Monitor speaker system comprising of a single 12" Full Range Dual Cone Speaker and a Piezo Horn Tweeter.
- An optimally angled enclosure for effective floor monitoring in various indoor & outdoor applications.
- P - 112T uses one MS - 1235 Speakers.

Specifications
- Model: P - 200T
- Input Power: 200 W
- Configuration: Two Way
- Low Freq. Speaker: 1 X 12" (MS-1255)
- High Freq. Unit: Piezo HF
- Impedance: 8 Ohms
- Port: Free Flow Flared
- Input Connectors: ¼" Input Jack + Terminal Strip
- Freq. Response: 50 Hz - 20 KHz
- Dim. (W X D X H): 415 x 430 x 634 mm

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**P.A. SOUND COLUMNS**


**P - 400T  400 Watts**

**Features**
- High power, high efficiency professional speaker system with well-balanced wide-spectrum sound.
- The system combines two 12" Full Range Dual Cone speakers and a 1.5" VC 90mm magnet Horn Tweeter.
- A stand adapter is provided at the bottom for pole mounting.
- In-Built high quality passive crossover.
- Ideal for DJ’s variety music programmes and general PA applications.
- P - 400T uses two MS - 1255 Speakers.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>P - 400T</th>
<th>P - 212T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>400 W</td>
<td>200 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>Two Way</td>
<td>Two Way</td>
</tr>
<tr>
<td>Low Freq. Speaker</td>
<td>2 X 12&quot; (MS-1255)</td>
<td>2 X 12&quot; (MS-1235)</td>
</tr>
<tr>
<td>High Freq. Unit</td>
<td>8&quot; X 12&quot; Horn with 1.5&quot; VC 90mm HF</td>
<td>20 Watts Neo HF</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 Ohms</td>
<td>16 Ohms</td>
</tr>
<tr>
<td>Port</td>
<td>Free Flow Flared</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>⅜ Input Jack + Terminal Strip</td>
<td>⅜ Input Jack + Terminal Strip</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>50 Hz - 20 KH z</td>
<td>50 Hz - 20 KH z</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>465 x 390 x 990 mm</td>
<td>420 x 360 x 938 mm</td>
</tr>
</tbody>
</table>

**P - 212T  200 Watts**

**Features**
- The system combines two 12" Full Range Dual Cone speakers and a Neo Horn Tweeter.
- A stand adapter is provided at the bottom for pole mounting.
- It delivers the fidelity of sound and the column effect for sound coverage demanded in sound reinforcement and PA applications.
- The system is housed in a Rugged Bass Reflex Enclosure.
- P - 212T uses two MS - 1235 Speakers.

**P - 1204  600 Watts**

**Features**
- Sturdy & rugged carpet covered bass reflex cabinet built around 4 nos high quality 12" dual cone speakers.
- Features high efficiency, high sound pressure level, & unmatched bass.
- Ideal cabinet speaker for large gatherings and for use with high power amplifiers.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>P - 1204</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>600 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>One Way</td>
</tr>
<tr>
<td>Speaker Type</td>
<td>4 X 12&quot; (MS - 1235)</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Port</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Speakon Sockets</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>50 Hz - 16 Kh z</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>745 x 520 x 800 mm</td>
</tr>
</tbody>
</table>
P.A. SOUND COLUMNS


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Features
- Professional 2 way sound columns with high efficiency and long throw for speech and music.
- Housed in a rugged bass reflex trapezoidal enclosure made of thickness wooden baffle covered with carpet.
- In-Built high quality passive crossover.
- Trapezoidal construction ensures optimum low frequency performance and smoothness with minimum interference from standing waves and box resonance.
- Suitable for the installation on the floor with the protection provided at the base in the form of gromets.
- A stand adapter is provided at the bottom for pole mounting.
- Parallel speaker can be connected with the connector provided at the back.
- Easy to handle with the handles fitted on the sides of the cabinet.
- P - 350T uses one MS - 1518 Speaker.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>P - 350T</th>
<th>P - 250T</th>
<th>P - 115T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>350 W</td>
<td>250 W</td>
<td>250 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>Two Way</td>
<td>Two Way</td>
<td>Two Way</td>
</tr>
<tr>
<td>Low Freq. Speaker</td>
<td>1 X 15&quot; (MS-1518)</td>
<td>1 X 15&quot; (MS-1555)</td>
<td>1 X 15&quot; (MS-1555)</td>
</tr>
<tr>
<td>High Freq. Unit</td>
<td>8&quot; x 12&quot; Horn with 1.5&quot; VC 50mm HF</td>
<td>20 Watts Neo HF</td>
<td>20 Watts Neo HF</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ohms</td>
<td>8 Ohms</td>
<td>8 Ohms</td>
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<tr>
<td>Port</td>
<td>Free Flow Flared</td>
<td>Free Flow Flared</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Speaker Sockets</td>
<td>Speaker Sockets</td>
<td>Speaker Sockets</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>40 Hz - 20 KHz</td>
<td>40 Hz - 20 KHz</td>
<td>55 Hz - 20 KHz</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>527 x 400 x 840 mm</td>
<td>535 x 400 x 755 mm</td>
<td>525 x 360 x 675 mm</td>
</tr>
</tbody>
</table>
P.A. SOUND COLUMNS

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P - 500T  500 Watts

- Professional 2-way speaker system with exceptional efficiency.
- It consists of two 15" high performance dual cone speakers and a high frequency compression driver.
- The speaker system is housed in an acoustically treated Bass Reflex carpet covered enclosure.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for both indoor and outdoor sound reinforcement applications.
- P - 500T uses two MS - 1555 Speakers.

P - 215T  800 Watts / P - 219T  1000 Watts
P - 252T  1500 Watts

- Professional sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for use with high power amplifiers for large gatherings.
- P - 215T uses two MS - 1518 Speakers.
- P - 219T uses two MS - 1590 Speakers.
- P - 252T uses two MS - 1520 Speakers.

Features

**P - 500T**

- P - 500T uses two MS - 1555 Speakers.
- Professional sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for use with high power amplifiers for large gatherings.
- P - 215T uses two MS - 1518 Speakers.
- P - 219T uses two MS - 1590 Speakers.
- P - 252T uses two MS - 1520 Speakers.

**P - 215T**

- P - 500T uses two MS - 1555 Speakers.
- Professional 2-way speaker system with exceptional efficiency.
- It consists of two 15" high performance dual cone speakers and a high frequency compression driver.
- The speaker system is housed in an acoustically treated Bass Reflex carpet covered enclosure.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for both indoor and outdoor sound reinforcement applications.
- P - 500T uses two MS - 1555 Speakers.

**P - 219T**

- P - 219T uses two MS - 1590 Speakers.
- Professional sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for use with high power amplifiers for large gatherings.
- P - 215T uses two MS - 1518 Speakers.
- P - 219T uses two MS - 1590 Speakers.
- P - 252T uses two MS - 1520 Speakers.

**P - 252T**

- P - 252T uses two MS - 1520 Speakers.
- Professional sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Ideal for use with high power amplifiers for large gatherings.
- P - 215T uses two MS - 1518 Speakers.
- P - 219T uses two MS - 1590 Speakers.
- P - 252T uses two MS - 1520 Speakers.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Power</th>
<th>Configuration</th>
<th>Low Freq. Speaker</th>
<th>High Freq. Unit</th>
<th>Impedance</th>
<th>Port</th>
<th>Input Connectors</th>
<th>Freq. Response</th>
<th>Dim. (W X D X H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P - 500T</td>
<td>500 W</td>
<td>Two Way</td>
<td>2 X 15&quot; (MS-1555)</td>
<td>8&quot; x 12&quot; Horn with 1.5&quot; VC 90mm HF</td>
<td>4 Ohms</td>
<td>Free Flow Flared</td>
<td>Speakon Sockets</td>
<td>535 x 510 x 1125 mm</td>
<td></td>
</tr>
<tr>
<td>P - 215T</td>
<td>800 W</td>
<td>Two Way</td>
<td>2 X 15&quot; (MS-1518)</td>
<td>8&quot; x 12&quot; Horn with 2&quot; VC 115mm HF</td>
<td>4 Ohms</td>
<td>Free Flow Flared</td>
<td>Speakon Sockets</td>
<td>535 x 510 x 1245 mm</td>
<td></td>
</tr>
<tr>
<td>P - 219T</td>
<td>1000 W</td>
<td>Two Way</td>
<td>2 X 15&quot; (MS-1596)</td>
<td>8&quot; x 12&quot; Horn with 2&quot; VC 115mm HF</td>
<td>4 Ohms</td>
<td>Free Flow Flared</td>
<td>Speakon Sockets</td>
<td>535 x 510 x 1245 mm</td>
<td></td>
</tr>
<tr>
<td>P - 252T</td>
<td>1500 W</td>
<td>Two Way</td>
<td>2 X 15&quot; (MS-1520)</td>
<td>8&quot; x 12&quot; Horn with 3&quot; VC 175mm HF</td>
<td>4 Ohms</td>
<td>Free Flow Flared</td>
<td>Speakon Sockets</td>
<td>535 x 510 x 1437 mm</td>
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</tbody>
</table>
P.A. SOUND COLUMNS


JP - 800    800 Watts

P - 215TJ   800 Watts / P - 219TJ   1000 Watts

Features
- **High Quality Paint finish** sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-Built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Its aesthetic looks with black paint finish makes it suitable for installation on Pubs, Lounges etc.
- JP - 800 uses two MS - 1518 Speakers.

Features
- Professional sound columns specially designed to control the high, mid, and low frequencies to its perfection.
- The high frequency timbre is clean, mid frequency is powerful and low frequency is strong.
- In-Built high quality passive crossover with electronics protection circuit.
- Housed in a rugged bass reflex trapezoidal enclosure made of thick wooden baffle covered with carpet.
- Two speaker cabinets can be connected parallel with the socket provided at the rear.
- High efficiency speaker system with high level of acoustic power can be achieved without drawing excessive power from the amplifier.
- Fitted with heavy duty handles for ease of transportation.
- Its aesthetic looks with black paint finish makes it suitable for installation on Pubs, Lounges etc.
- P - 215TJ uses two MS - 1518 Speakers.
- P - 219TJ uses two MS - 1590 Speakers.

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>JP - 800</th>
<th>P - 215TJ</th>
<th>P - 219TJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>800 W</td>
<td>800 W</td>
<td>1000 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>Two Way</td>
<td>Two Way</td>
<td>Two Way</td>
</tr>
<tr>
<td>Low Freq. Speaker</td>
<td>2 X 15” (MS-1518)</td>
<td>2 X 15” (MS-1518)</td>
<td>2 X 15” (MS-1590)</td>
</tr>
<tr>
<td>High Freq. Unit</td>
<td>8” X 12” Horn with 2” VC 115mm HF</td>
<td>8” X 12” Horn with 2” VC 115mm HF</td>
<td>8” X 12” Horn with 2” VC 115mm HF</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 Ohms</td>
<td>4 Ohms</td>
<td>4 Ohms</td>
</tr>
<tr>
<td>Port</td>
<td>Free Flow Flared</td>
<td>Free Flow Flared</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Speaker Sockets</td>
<td>Speaker Sockets</td>
<td>Speaker Sockets</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>50 Hz - 20 KHz</td>
<td>50 Hz - 20 KHz</td>
<td>50 Hz - 20 KHz</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>520 x 480 x 1230 mm</td>
<td>520 x 480 x 1230 mm</td>
<td>520 x 480 x 1230 mm</td>
</tr>
</tbody>
</table>
P.A. SOUND COLUMNS

P - 282  2000 Watts

Features:
- Rugged cabinet speaker with two extremely efficient 18" LF drivers for higher power handling capacity, deeper bass.
- Very strong carpet covered cabinet with thick wooden baffle and extensive internal bracing to prevent unwanted vibrations and rattling.
- An ideal cabinet speaker for use with high power amplifiers for reinforcement of the extended low frequency spectrum.
- P - 282 uses two MS - 820 Speakers.

Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>P - 282</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>2000 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>One Way</td>
</tr>
<tr>
<td>Speaker Type</td>
<td>2 X 18&quot; (MS-820)</td>
</tr>
<tr>
<td>Impedance</td>
<td>4 Ohms</td>
</tr>
<tr>
<td>Port</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Speakon Sockets</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>30 Hz - 250 Hz</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>1045 x 765 x 610 mm</td>
</tr>
</tbody>
</table>

P - 182  1000 Watts

Features:
- Rugged cabinet speaker with one extremely efficient 18" LF drivers.
- Very strong carpet covered cabinet with thick wooden baffle and extensive internal bracing to prevent unwanted vibrations and rattling.
- An ideal cabinet speaker for use with high power amplifiers for reinforcement of the extended low frequency spectrum.
- Unique T - Shape design for deeper design.
- P - 1812 uses one MS - 1820 Speakers.

Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>P - 182</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>1000 W</td>
</tr>
<tr>
<td>Configuration</td>
<td>One Way</td>
</tr>
<tr>
<td>Speaker Type</td>
<td>1 X 18&quot; (MS-820)</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Port</td>
<td>Free Flow Flared</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Speakon Sockets</td>
</tr>
<tr>
<td>Freq. Response</td>
<td>30 Hz - 250 Hz</td>
</tr>
<tr>
<td>Dim. (W X D X H)</td>
<td>605 x 630 x 860 mm</td>
</tr>
</tbody>
</table>
**P.A. SPEAKERS**


**MS - 1235  200Watts**

**Features**
- Specially designed for use in medium power compact 2 way speaker system.
- Dual cone full range speaker.
- Pressed steel frame in black color.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 1.5 Inch CCAW Voice Coil with High temperature rating for safe and reliable operation.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Specially designed for professional applications like live music applications and DJ’s.
- Designed to install in compact enclosures either as a stand alone speaker or in combination of two speakers with a tweeter.

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>MS - 1235</th>
<th>MS - 1255</th>
<th>MS - 1555</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>100W</td>
<td>200W</td>
<td>200W</td>
</tr>
<tr>
<td>Output Max.</td>
<td>250W</td>
<td>400W</td>
<td>400W</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>1.5” (CCAW Winding on Kapton)</td>
<td>2” (CCAW Winding on Kapton)</td>
<td>2” (CCAW Winding on Kapton)</td>
</tr>
<tr>
<td>Magnet Diameter</td>
<td>155 mm</td>
<td>155 mm</td>
<td>155 mm</td>
</tr>
<tr>
<td>Magnet Height</td>
<td>20 mm</td>
<td>20 mm</td>
<td>20 mm</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ohms</td>
<td>8 Ohms</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97dB</td>
<td>98dB</td>
<td>98dB</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Connection Strip</td>
<td>Connection Strip</td>
<td>Push Type Terminal</td>
</tr>
</tbody>
</table>

**MS - 1255  400Watts**

**Features**
- Dual cone full range speaker.
- Sturdy Pressed metal frame in black robust construction.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- 2 Inch CCAW Voice Coil with High temperature rating for safe and reliable operation.
- Specially designed for professional applications like live music applications and DJ’s.
- Ideal for powerful bass.
- Designed to install in compact enclosures either as a stand alone speaker or in combination of two speakers with a tweeter.

**MS - 1555  400Watts**

**Features**
- Dual cone full range speaker.
- Sturdy Pressed steel frame in black robust construction.
- Special Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 2 Inch CCAW Voice Coil with High temperature rating for safe and reliable operation.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Heavy duty terminals provided for easy connections.
- Specially designed for professional applications like live music applications and DJ’s.
- Ideal for powerful bass.
- Designed to install in compact enclosures either as a stand alone speaker or in combination with a tweeter.

For any enquiry mail us at mega@megaindia.net  www.megaindia.in, www.megaindia.net
It is a 15” High quality full range PA speaker with a very wide frequency range.
- Aluminum die cast frame in black for sturdy use.
- Very great linear excursion.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 3 Inch CCAW Voice Coil with High temperature rating for safe and reliable operation.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Heavy duty terminals provided for easy connections.
- Designed to install in compact enclosures either as a stand alone speaker or in combination with a tweeter.

**Features**

**MS - 1518  700Watts**

- It is a 15” High quality speaker with excellent low and mid frequency response.
- Aluminum die cast frame in black for sturdy use.
- Very great linear excursion.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 3 Inch In/Out Copper Winding Voice Coil for Higher SPL.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Heavy duty terminals provided for easy connections.
- Designed to install in compact enclosures either as a stand alone speaker or in combination with a tweeter.

**MS - 1590  900Watts**

- It is a 15” High quality speaker with powerful bass.
- Aluminum die cast frame in black for sturdy use.
- Very great linear excursion.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 4 Inch In/Out Copper Winding Voice Coil for Higher SPL.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Heavy duty terminals provided for easy connections.
- Designed to install in compact enclosures either as a stand alone speaker or in combination with a tweeter.

**MS - 1520  1400Watts**

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output</th>
<th>Output Max.</th>
<th>Voice Coil</th>
<th>Magnet Diameter</th>
<th>Magnet Height</th>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Input Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS - 1518</td>
<td>350W</td>
<td>700W</td>
<td>3” (CCAW Winding on Kapton)</td>
<td>165 mm</td>
<td>26 mm</td>
<td>8 Ohms</td>
<td>98dB</td>
<td>Push Type Terminal</td>
</tr>
<tr>
<td>MS - 1590</td>
<td>450W</td>
<td>900W</td>
<td>3” (In/Out Copper Winding on Tin)</td>
<td>190 mm</td>
<td>25 mm</td>
<td>8 Ohms</td>
<td>98dB</td>
<td>Push Type Terminal</td>
</tr>
<tr>
<td>MS - 1520</td>
<td>700W</td>
<td>1400W</td>
<td>4” (In/Out Copper Winding on Tin)</td>
<td>220 mm</td>
<td>25 mm</td>
<td>8 Ohms</td>
<td>98dB</td>
<td>Push Type Terminal</td>
</tr>
</tbody>
</table>
Mega speaker line incorporates a vast range of transducers covering the entire audio spectrum. The transducers are designed to optimise the relationship between the purity of sound, combining the absence of distortion and the ability to withstand high power levels over a long period of time.

MS - 820  2000Watts

Features
- Extremely great linear excursion, ideal for powerful bass & sub-woofer applications.
- Aluminum die cast frame in black for sturdy use.
- Corrugated cloth cone with rubberized coating at the edge for extra strength.
- 4 Inch In/Out Copper Winding Voice Coil for Higher SPL.
- Tear resistant tetron-cloth blend rolled cloth edge.
- Gaps provided in frame to keep the voice coil cool.
- Cotton polyester blended spider.
- Heavy duty terminals provided for easy connections.
- Ideal for bass and sub-woofer application.

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>MS - 820</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>1000W</td>
</tr>
<tr>
<td>Output Max.</td>
<td>2000W</td>
</tr>
<tr>
<td>Voice Coil</td>
<td>4” (In / Out Copper Winding on Tf)</td>
</tr>
<tr>
<td>Magnet Diameter</td>
<td>220 mm</td>
</tr>
<tr>
<td>Magnet Height</td>
<td>25 mm</td>
</tr>
<tr>
<td>Impedance</td>
<td>8 Ohms</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98dB</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>Push Type Terminal</td>
</tr>
</tbody>
</table>
### Speaker Stand Big

- Model: DS 33
- Height Adjustment: 3.5' TO 6.5'
- Load Capacity: 40 Kg.
- Weight: 9.200 Kg. (approx.)

### Speaker Stand Small

- Model: SS-12/15/18
- Height Adjustment: 3.25' TO 5'
- Load Capacity: 25 Kg.
- Weight: 7.500 Kg. (approx.)

### Table Stand

- Model: DS 33
- Spring Type Table Stand
- Height: 120 mm X W120mm
- Weight: 1.230 Kg. (approx.)

### Table Stand DGT

- Height: 160 mm
- Weight: 1.350 Kg. (approx.)

### Table Stand BMS

- Height: 1000 mm to 1700 mm
- Weight: 1.850 Kg. (approx.)

### Floor Stand DGN

- Height: 920 mm to 1500 mm
- Weight: 3.700 Kg. (approx.)

### Floor Stand BMS 101

- Height: 350 mm to 530 mm
- Weight: 1.500 Kg. (approx.)

### Features

- Rugged stand designed for easy installations of speakers like sound columns etc.
- Ideal for mounting a loud speaker for wide coverage of sound.
- Height can be adjusted as per requirement.
- Three legs at the base makes the unit stable.
- Finished with black powder paint for extra life.

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Speaker Stand Big</th>
<th>Speaker Stand Small</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height Adjustment</td>
<td>3.5 TO 6.5'</td>
<td>3.20 TO 5'</td>
</tr>
<tr>
<td>Load Capacity</td>
<td>40 Kg.</td>
<td>25 Kg.</td>
</tr>
<tr>
<td>Weight</td>
<td>9.200 Kg. (approx.)</td>
<td>7.500 Kg. (approx.)</td>
</tr>
</tbody>
</table>
A public address or “PA” system is an electronic amplification system with a mixer, amplifier and loudspeakers, used to reinforce a given sound, e.g., a person making a speech, prerecorded music, or message, and distributing the sound throughout a venue.

Simple PA systems are often used in small venues such as school auditoriums, churches, and small bars. PA systems with a larger number of speakers are widely used in institutional and commercial buildings, to read announcements or declare states of emergency.

Low Impedance PA System

A combination of Horns and Column Speaker are connected together as long as correct Impedance Matching is done (as shown in the figure), and the Total Power of the Driver Units and Column Speakers is more than the Rated Power of Amplifier.

100 Volts Line Matching PA System

In a 100V line system, the amp and every individual speaker is fitted with a transformer with a high impedance primary and low impedance secondary. The primary is the 100V line side, and the secondary is connected to the speaker driver.

Why 100V line?

Let’s say you’ve been asked to provide a PA system for a large outdoor fete. You only need it for speech and possibly low-level background music, but you need a lot of speakers to cover the area and they’re all some distance apart. This would present an absolute nightmare if you wanted to use a ‘standard’ low impedance PA amp and speakers. For a start, the distances involved between amp and speakers are pretty large, hundreds of meters or more. Sure, you could run a low impedance system, but you’ll need to compete with extremely high losses in the cables. Either you put up with stupidly large voltage drops, or you use very bulky cable. Either way, its kludgy at best and very inconvenient. That’s assuming your amp is even happy with driving such long lengths of cable.

Now imagine you need 15 speakers to cover the area. How are you going to wire these and still present a suitable impedance load to the amp? You could do it by wiring in series-parallel combinations, but the wiring would soon become a rats nest, and for temporary events you want the installation to be as quick and painless as possible to set up and tear down.

High impedance system passes less current down the cables than the equivalent low impedance setup. The higher voltage and lower current are a major advantage in long distance cable runs, as the power loss in the cable is proportional to its length and the square of the current flowing within it. Even if we do lose a few volts down the cables in our 100V line system it isn’t too critical, the voltage loss expressed as a percentage is relatively low.

We can also add all our speakers in parallel without having to worry too much about impedance. We can daisy chain from speaker to speaker, break out from a central point in a star wiring scheme, or pretty much whatever else takes your fancy as long as everything remains in parallel.

Precautions:

For a low impedance PA system, the total load impedance presented to the amplifier must never be below the rated amplifier impedance.

For a 100 V Line matching PA system, the total load presented to the amplifier must not exceed the rated output of the amplifier.

Never mix 100V line and low impedance speakers on the same system.

Hints and Tips

Ceiling speakers should ideally be placed using the equation distance apart is twice the (ceiling height less1.5m). ie: if the ceiling is 4m high the average distance between each ceiling speaker should not exceed 2 x (4-1.5)m – that is 5m spacing between speakers.
TYPICAL CEILING SPEAKER ARRANGEMENT

For general hall use not to include background music, speakers should be arranged about 9 to 12 meters apart. Shown below is an example of speaker arrangement in a 30m x 20m hall with ceiling height of 3m, which indicates that this hall requires about 6 speakers.

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Height of ceiling</th>
<th>Distance between speakers</th>
<th>Area of coverage of one speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background music</td>
<td>Less than 2.5 M</td>
<td>5M</td>
<td>About 25 m²</td>
</tr>
<tr>
<td></td>
<td>2.5 - 4.5 M</td>
<td>6M</td>
<td>About 36 m²</td>
</tr>
<tr>
<td></td>
<td>4.5 - 15 M</td>
<td>9M</td>
<td>About 81 m²</td>
</tr>
<tr>
<td>Announcement</td>
<td>9 to 12M</td>
<td>81 to 144 m²</td>
<td></td>
</tr>
</tbody>
</table>

Dual speaker circuits can be employed where an increased safety margin is required. Alternate loudspeakers should be driven by the second amplifier so that if one amplifier or loudspeaker circuit develops a fault the system keeps working. This is an ideal ‘fail safe’ when the PA sound system is also being used as a fire alarm or other voice evacuation system.

Low impedance speakers such as those used for hi-fi and disco may be used on a 100v line PA sound system provided they are connected to the 100v line output of the amplifier using a suitable 100v line transformer which has a suitable wattage tapping.

Stereo outputs from CD players etc. can be easily converted to mono to connect to the amplifiers auxiliary input.

Hum and earth loops can occur when connecting different types of audio equipment together. Often this problem will be present when the sound system electronics are mounted in a metal 19” rack. The problem is caused when there is more than one earth path such as the mains earth, the audio lead screens, the metal cases of the equipment and the metal rack supporting the items. Care should always be taken to ensure that the earthing integrity of a metal rack is maintained.

Microphones in 100v line PA sound systems are often connected to mixers or amplifiers by long cable runs of 50m or more. To avoid electrical interference microphones should always be connected using two core screened, balanced line microphone cable. It is important to use both balanced line microphones together with mixers and amplifiers with balanced line microphone inputs. Balanced line microphones are usually connected using XLR connectors.

Connectors

There are various connectors used with the Mega range of P.A. Products

1. RCA Phono Plug
   A Popular audio connector used on auxiliary inputs & booster in / out connections; also commonly used on mixers, CD & tape players. They are wired using single core screened cable.

2. XLR Plug
   This is the industry standard microphone connector; robust and relatively simple to install. There are a number of ways in which they can be wired.
   Balanced Operation
   Pin 1 connects to screen (Signal earth)
   Pin 2 connects to signal + (Live)
   Pin 3 connects to signal - (Return)
   Quasi Balanced Operation
   Pins 1 & 3 connects to screen of the cable
   Pin 2 connects to signal conductor.

   The pin numbers are identified on the XLR plug and an easy way to remember how they should be wired is:
   X = Earth (Pin 1)
   L = Live (Pin 2)
   R = Return (Pin 3)

3. 6.3 mm (1/4”) Phone Plug
   There are two versions of this connector in common use, MONO & STEREO.
   The STEREO plug is used for BALANCED operation and wired as follows:
   TIP - Signal +
   RING - Signal -
   SLEEVE - Screen

   The MONO plug is used for UNBALANCED operation and wired as follows:
   TIP - Signal +
   SLEEVE - Screen

   The MONO plug is also used for QUASI-BALANCED operation and wired as follows:
   TIP - Signal +
   SLEEVE - Signal -

4. SPEAKON Plug
   This is used in some models of Mega speaker system for connecting to an amplifier. The pin configurations are as shown in the diagram.