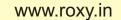
SPECIFICATIONS

Model No.	RSA-160M / RSA-160DP
POWER REQUIREMENT	AC: 220-240V 50/60Hz, DC: 24V (2x12V Car Battery)
AC POWER CONSUMPTION	300VA
DC POWER CONSUMPTION	4A
R.M.S POWER OUTPUT: MAXIMUM At 10% THD At 5% THD At 2% THD	200 Watts 160 Watts 140 Watts 120 Watts
INPUT CHANNELS	5 x MIC 0.65mV/ 4.7KΩ, 2 x AUX 100mV/ 470KΩ
DIGITAL PLAYER*	MP3 Player with USB/ BT/ FM Functions & Remote Control
ECHO**	Built-in ECHO with Delay/ Repeat Function
FREQUENCY RESPONSE	50Hz - 15000Hz ± 3dB
OUTPUT REGULATION	<2dB (No load to full load at 1KHz)
TONE CONTROLS	BASS: ±10dB at 100Hz (Cut-Boost Type) TREBLE: ±10dB at 10KHz (Cut-Boost Type)
LINE BOOSTER OUTPUT	1V/ 1ΚΩ
PRE-AMP OUTPUT	200mV/ 600Ω
S/N RATIO	60dB
OUTPUT TAPS FOR SPEAKERS	4Ω, 8Ω & 70V, 100V Line
PROTECTION	AC Fuse: 3A/ 250V DC Fuse: 13A
DIMENSIONS	W420 x H145 x D300 mm
WEIGHT	12.50 KG

MADE IN INDIA

Design and Specifications are subject to change without notice.
Technical specifications are estimates only 12/18.







www.roxy.in



PA Mixer Amplifier

160W RMS / 200W Max.



MODEL No.

RSA-160M RSA-160FX



PA Mixer Amplifier + Digital Player

160W RMS / 200W Max.







MODEL No.

RSA-160DP RSA-160FXDP



^{*} Not available in RSA-160M & RSA-160FX models. ** Available in RSA-160FX, RSA-160FXDP models.

WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

CAUTIONS

Water & Moisture: To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set. Do not insert or remove the AC mains plug with wet hands.

Power Source: The voltage & frequency of the AC mains supply, and the voltage of the external battery, (if applicable) to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

Power Cord Protection: Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

Operation on Generator: When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

Ventilation: This set should be situated so that its location or position does not interfere with its proper ventilation. Do not cover the ventilation holes / slots. Do not insert or drop anything into the ventilation holes / slots.

Stability: This set must be kept in a stable and flat horizontal position, and never in a tilted position. Do not place this set on an unstable stand, tripod, bracket or mount. Do not use attachments which are not supplied or explicitly recommended by the manufacturer.

Cover Strip: The cover strip of the 100V / 70V audio output terminal strip, and of any other high voltage output terminal strip, must be replaced after making connections. Failure to do so may result in exposure to hazardous voltages.

Earthing: This set must be earthed properly before use. A wire from the Earth terminal on the rear panel must be connected to electrical earth.

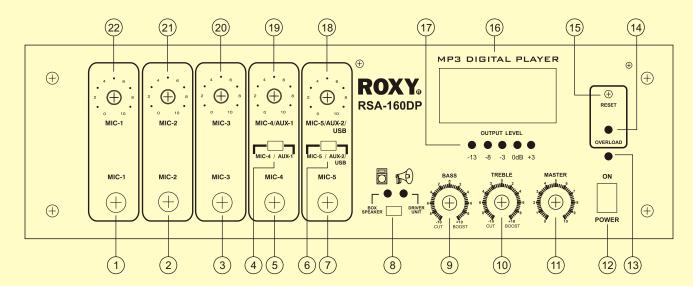
Cleaning: Disconnect this equipment from the AC mains and external battery before cleaning. Clean with a damp cloth, but do not allow any lequid to enter the set. Do not clean with liquids or aerosols.

Exposure to Heat: Do not touch the heatsinks while the set is working.

- RSA-160M/ RSA-160DP is a 160W power output Mixer Amplifier with 5-MIC & 2-AUX inputs.
- RSA-160M/ RSA-160DP has a line output for connecting to a Booster Amplifier and Pre-Amplifier output for recording purpose.
- 5-LED array display is provided to track speaker output level.
- Cut/Boost type Bass & Treble Control provided for enhanced tonal adjustment.
- Box Speaker/ Driver Unit selector switch provided for protecting Driver Unit's Diaphragm from unwanted low frequencies.
- RSA-160DP has Built-in MP3 Digital Player with USB/ BT/ FM Functions & Remote Control. It can be used to playback MP3 format songs from different sources like USB Drive or SD cards. An LED display enables users to keep a track on songs to be played.
- RSA-160FX models has Built-in ECHO with DELAY & REPEAT functions.
- Provision for automatic changeover from AC to Battery operation if batteries are connected to ensure continuity of program in case of power failure.
- Protection provided against reverse polarity Battery connections.
- Designed for a wide variety of PA applications.

02 03

FRONT PANEL CONTROLS & FEATURES



1. MIC-1 INPUT JACK SOCKET

For accepting unbalanced signal from a low impedance microphone.

- 2. MIC-2 INPUT JACK SOCKET
- 3. MIC-3 INPUT JACK SOCKET
- 4. MIC-4 / AUX-1 SELECTOR SWITCH
- 5. MIC-4 INPUT JACK SOCKET
- 6. MIC-5 / AUX-2 / USB SELECTOR SWITCH
- 7. MIC-5 INPUT JACK SOCKET
- 8. BOX SPEAKER/ DRIVER UNIT SELECTOR SWITCH
- 9. BASS CONTROL
 To Cut/Boost Bass Effect
- 10. TREBLE CONTROL
 To Cut/Boost Treble Effect
- 11. MASTER VOLUME CONTROL

 For adjusting the overall volume level from the amplifier.

12. POWER SWITCH

To Turn On/Off Amplifier

13. POWER LED

This LED glows when the Amplifier is switched ON.

14. OVERLOAD LED

This LED glows when the circuit protector trips.

15. RESET BUTTON

This button pops out when the circuit protector trips. After rectification of the cause, press the Reset button for normal operation of the Amplifier.

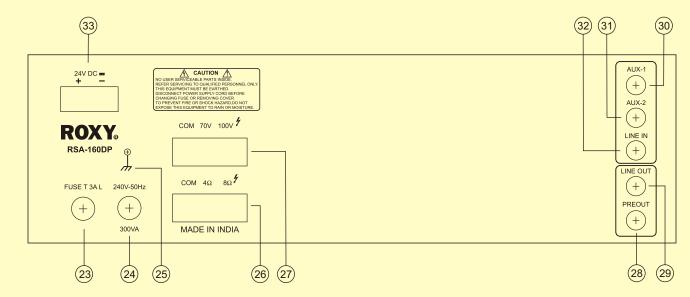
16. BUILT-IN MP3 DIGITAL PLAYERDP-79 with USB/SD/BT/FM function.

17. LED ARRAY

This indicates the output level of the Amplifier.

- 18. MIC-5 / AUX-2 / USB VOLUME CONTROL
- 19. MIC-4 / AUX-1 VOLUME CONTROL

REAR PANEL CONTROLS & FEATURES



- 20. MIC-3 VOLUME CONTROL
- 21. MIC-2 VOLUME CONTROL
- 22. MIC-1 VOLUME CONTROL
- 23. AC MAINS FUSE (Rating 3 AMP)
 This protects the amplifier from excessive current flow.
- 24. 3 CORE AC MAINS CABLE PLUG
- 25. EARTH TERMINAL
- 26. SPEAKER TERMINAL BLOCK $(4\Omega, 8\Omega)$

For connecting low impedance speakers.

27. SPEAKER TERMINAL BLOCK (70V, 100V)

For connecting speakers with 100V line matching transformers.

28. PRE-AMPLIFIER OUTPUT JACK SOCKET

For connecting to the AUX Input of another Amplifier or for recording purpose.

29. LINE OUTPUT JACK SOCKET

For connecting to a booster amplifier to obtain combined higher power output.

- 30. AUX-1 INPUT JACK SOCKET
- 31. AUX-2 INPUT JACK SOCKET

32. LINE IN JACK SOCKET

For connecting an external Mixer to enhance the number of inputs or for receiving input from the LINE Output jack of another Amplifier.

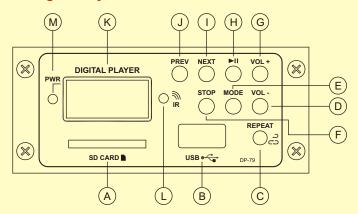
33. BATTERY TERMINAL BLOCK

For connecting 12V Car Battery as standby power source.

CAUTION

- Disconnect input to AUX-2 Socket before using Built-in MP3 Digital Player. It should be noted that a user can use either AUX-2 source or Built-in MP3 Digital Player at one given point of time.
- Do not eject USB/SD Card while playing or using Built-in MP3 Digital Player. Doing so may damage USB/SD Card or Built-in MP3 Player.
- When speakers are connected to low impedence Terminal Strip (COM-4Ω-8Ω), no speakers should be connected to COM-100V Terminal Strip & vis-a-versa doing so may damage Amplifier or Speaker or both.

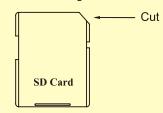
MP3 Digital Player



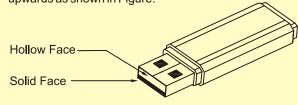
-: MP3 DIGITAL PLAYER :-

A. SD/MMC Card Connector: Insert the SD/MMC Card into its appropriate slot to play. When taking out the card, pull the card to take out.

While inserting SD/MMC card into the slot, ensure that the card is inserted in such a way that all pins are facing downward and cut is towards right as shown in figure.



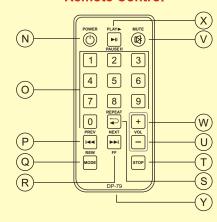
B. • USB Connector: Insert the USB drive here. While inserting USB drive into the USB connector, hold the USB drive in such a way that hollow part of the USB drive is upwards as shown in Figure.



Any forceful insertion in wrong direction will damage the connector.

- C. → REPEAT : Press once to repeat the song being played. Press again to repeat all the songs.
- D. VOL-: To decrease volume level of MP3 Player.
- E. MODE: To select SD/ USB/BT/FM.
- F. STOP: To stop the track being played.
- G. VOL+: To increase volume level of MP3 Player.
- H. ►II PLAY/PAUSE: Press PLAY/PAUSE once to Pause if music is already playing. Press PLAY/PAUSE again to resume playing. Play will resume from the same point where it had stopped.
- Next: Press NEXT to select next forward music track. Pressing NEXT repeatedly will move the system to successively next forward tracks.

Remote Control



- J. | PREV: Press PREV to Select the previous track. Pressing PREV repeatedly will move the system to successively previous tracks.
- K. LCD DISPLAY: Displays 3 digits of the track selected to play i.e. 001 to 999. During play, displays the time duration of the track played.
- L. IR Sensor: Picks up signal from the Remote control. Point the Remote control towards this sensor when using the remote control.
- M. POWER ON LED

-: REMOTE CONTROL :-

- N. POWER: Press once to switch off MP3 digital player, press again to switch ON.
- O. Number Key 0 to 9. To Choose the track number to be
- P. I◄ : To select the previous track.
- Q. MODE: To select SD/ USB/BT/FM.
- R. Press to select the next track.
- **S.** →: Press once to repeat the song being played. Press again to repeat all the songs.
- T. STOP: Press to stop the track being played.
- U. VOL: Press to decrease the volume of Digital Player.
- V. MUTE: Pres once to mute the sound, press again the resume the sound.
- W. VOL: Press to increase the volume of Digital Player.
- X. ►II PLAY/PAUSE: Press Play/Pause once to Pause when music is already playing. Press Play/Pause again to resume replaying.
- Y. BATTERY REPLACEMENT: Pull out the battery tray and replace the battery with positive electrode facing upwards as shown in figure below. Push the battery compartment back to the close position. Use CR2025 or equivalent lithium coin cell.

