

MP-A3B

40W Power Amplifier



Class-D Constant-Voltage Power Amplifier

A compact 40 W amplifier with switchable 70 V / 100 V output, two stereo inputs, digital fiber input and balanced microphone input.

Rated Output
40 W @ 8 Ω

Output Type
Constant voltage 70 V / 100 V

Control
Front buttons, RS232; optional IR remote and TCP/IP via PTNET

KEY FEATURES

- 40 W mono audio output with selectable 70 V or 100 V constant-voltage operation.
- Two stereo audio inputs plus one digital fiber audio input.
- Three-level MIC input supporting condenser, dynamic and wireless microphones.
- Balanced/unbalanced MIC input with effective external-noise suppression.
- Ducking function, EQ control and MIC mixer functionality.
- Volume, bass and treble control via front buttons, IR remote and RS232.
- 16 ID codes for controlling multiple MP-A3B amplifiers.
- Fast input switching and fanless convection cooling.
- LED indication for power and working status; antistatic case design.

AUDIO INPUT / OUTPUT

Audio Inputs	2 stereo audio; 1 MIC; 1 digital fiber audio
Input Connectors	2 $\times$ RCA; 1 $\times$ 3.5 mm jack; 1 $\times$ 3-pole 3.81 mm captive-screw connector; 1 $\times$ S/PDIF fiber connector
Input Impedance	>10 k Ω
Audio Output	1 mono amplifier output
Output Connector	1 $\times$ 3-pole 3.81 mm captive-screw connector
Output Type	Constant voltage 70 V or 100 V
Rated Power Output	40 W @ 8 Ω

AUDIO PERFORMANCE

Frequency Response	120 Hz – 20 kHz
Bandwidth	120 Hz – 20 kHz
SNR	80 dB (Max)
CMRR	>70 dB @ 20 Hz – 20 kHz
THD + Noise	1% @ 1 kHz; 0.3% @ 20 kHz at nominal level
Voltage Gain	26 dB

CONTROL & GENERAL

RS232 Control	1 $\times$ 3-pole 3.81 mm captive-screw connector
Front Panel	Control buttons
ID Code	16 ID codes for control

Optional Control	IR remote and TCP/IP via PTNET programmable interface
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MP-A3B — SYSTEM & INSTALLATION

Typical system connection reproduced from the supplied user manual.

3.2 System Diagram

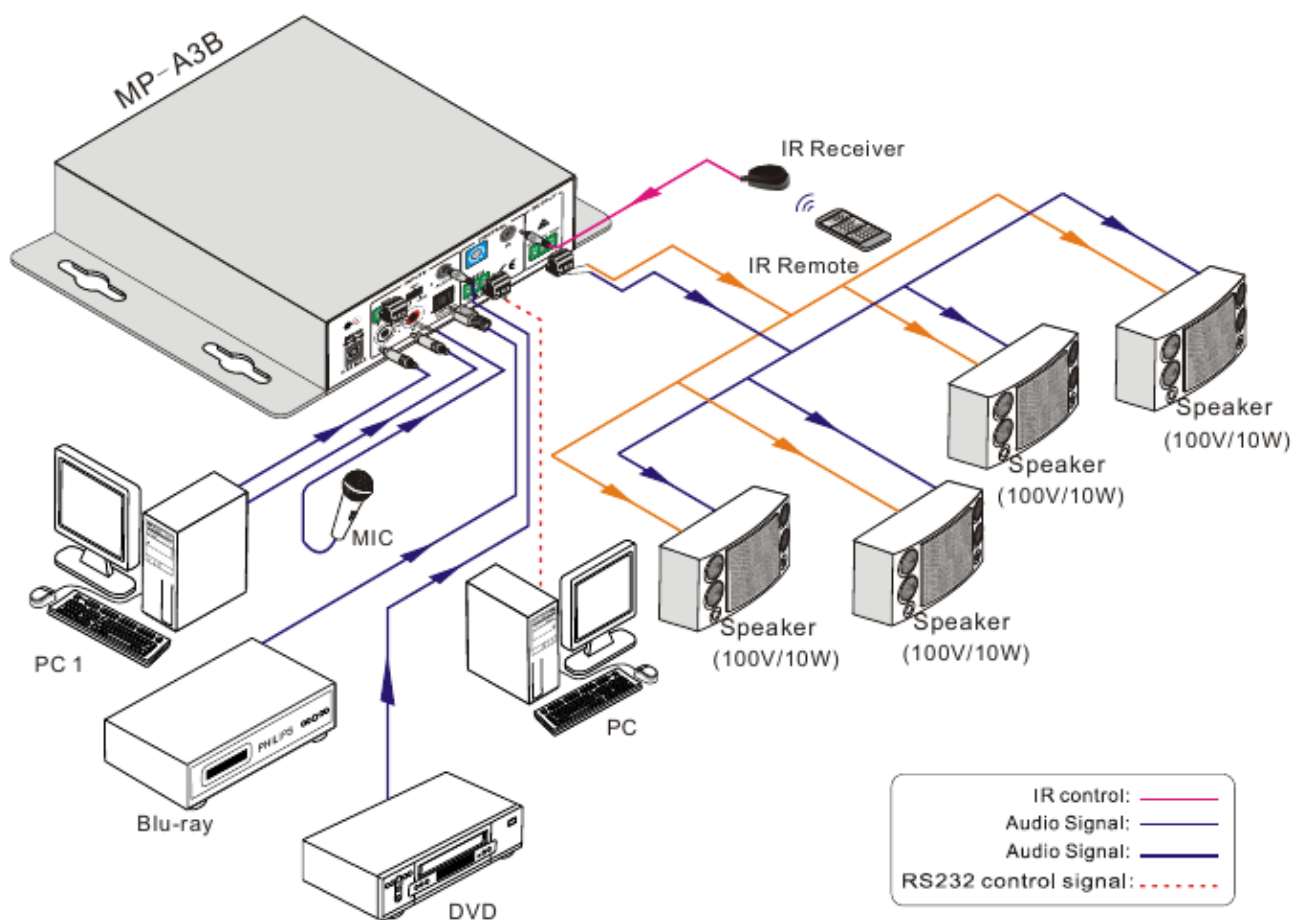


Figure 3 System Diagram

3.3 Audio Signal Connection

System diagram: PC, Blu-ray/DVD, microphone and IR control feeding the MP-A3B, with 100 V/10 W speakers connected in parallel.

SYSTEM APPLICATION

- Suitable for classrooms, small meeting rooms, lecture halls, bars and hotels.
- Mono 70 V / 100 V output can drive multiple speakers in parallel.
- Total connected speaker power must not exceed 40 W.
- Speakers must be connected before powering on; operation with an empty load is not allowed.

GENERAL SPECIFICATIONS

Power Supply	DC 24 V power adapter
Standby Power Consumption	5 W
Operating Temperature	−10 °C to +40 °C
Relative Humidity	10% – 90%
Dimensions (W × H × D)	130 × 44 × 144 mm (1U high)
Product Weight	0.86 kg

PACKAGE CONTENTS

1 × MP-A3B; 2 × mounting ears; 4 × screws; 1 × pluggable terminal block; 1 × RS232 cable; 1 × DC 24 V power adapter; 1 × power cord; 4 × plastic cushions; 1 × user manual.

Source: MP-A3B 40W Power Amplifier User Manual, Version MP-A3B_2016V1.0. Product photographs are from the manual cover (page 1); the system diagram is from the System Connection section (page 4). Specifications are taken from the manual's Specification section (page 12).