

# EQ-AMP350

350W Mixer Amplifier

Instruction Manual



✉ 4091 AMTC Center Drive • Clearwater, FL 33764-6976  
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## Features

1. MIC 1 input with front- and rear-panel connectors
2. Rear-panel MIC 2 and 3 inputs
3. Rear-panel AUX 1 and AUX 2 inputs
4. Line-level outputs allow connection to another amplifier
5. Monitor/MOH output allows connection of a monitor speaker or connection to music on hold input of a telephone system – output volume is controlled separately from main output
6. 100V and 70V constant-voltage speaker outputs and 4-16 ohm constant-resistance speaker output
7. Commercial-grade toroidal transformers produce high performance audio on a wide range of frequencies with minimal noise and high fidelity, even at high volume
8. Intelligent limiter can reduce excess signal
9. Reliable protection against overload, short circuit, and power fluctuation for optimum reliability
10. Oversized heat sinks and fan protect against overheating, protecting the amplifier's working life
11. Interrupt feature mutes AUX inputs when signal is detected on the MIC 1 input - speed of restoration of AUX inputs may be adjusted from sharp to gradual
12. Phantom power available on MIC 1 Input for condenser-type microphones

## Specifications

Pre Amp Out: 150 mV / 15k Ohms

Total Harmonic Distortion: < 1%

Line Level Output: -10dBV / 3k Ohms

Operating Temperature: 14° F (-10° C) – 104° F (40° C)

Cooling Mode: Air Cooling

Power Source: 100-120 VAC / 60 Hz

Amplifier Section (Amp in @ 1 KHz, 8 ohm load output):

Rated Continuous Output Power (THD 1%): 350 W

Rated Peak Output Power (THD 1%): 400 W

Input Sensitivity/Impedance: 1V / 20 kOhms

S/N: Better Than 90 dB

Frequency Response (+-3dB): 50 Hz-15 kHz

MIC1-3 Input Section (Ch. 1-3 In @ 1 kHz, Preamp Out):

Input Sensitivity/Impedance: 5 mV / 600 ohms

S/N: Better than 66 dB

Frequency Response (+-3dB): 50 Hz-15 kHz

Tone Control (Bass: 100 Hz, Treble: 10 kHz): +-10dB

Phantom Power: 0/6/12/24/48VDC

AUX1-2 Input Section (Aux In @ 1 kHz, Preamp Out):

Input Sensitivity/Impedance: 250 mV / 15k Ohms

S/N: Better than 80 dB

Frequency Response (+-3dB): 50 Hz-15 kHz

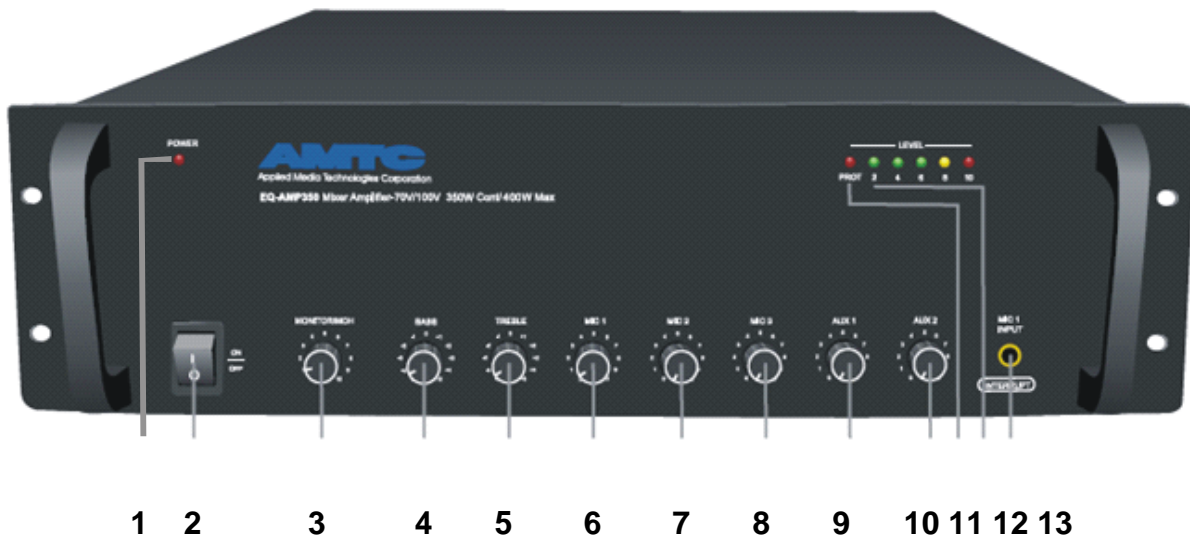
Tone Control (Bass: 100 Hz, Treble: 10 kHz): +-10 dB

Net Weight: 45 lbs. (20.41 kg)

Shipping Weight: 47 lbs. (21.32 kg)

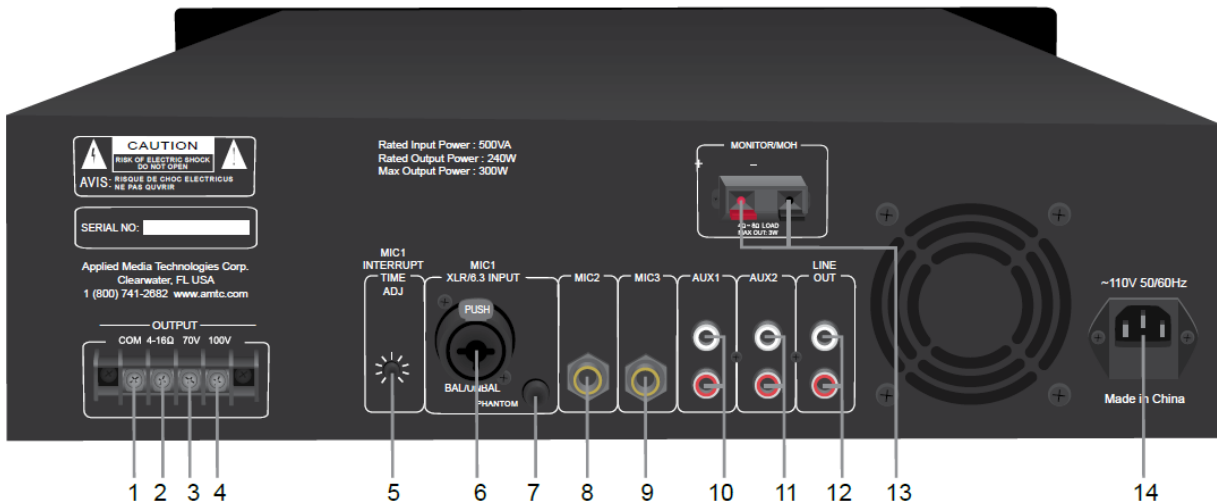
Dimensions: 19.1" (48.5 cm) W x 17.09" (43.4 cm) D x 5.2" (13.2 cm) H

## Front Panel



1. Power Indicator
2. Power Switch
3. Monitor/MOH Volume Control Knob
4. Bass Tone Control Knob
5. Treble Tone Control Knob
6. MIC1 Input Level Control Knob
7. MIC2 Input Level Control Knob
8. MIC3 Input Level Control Knob
9. AUX1 Input Level Control Knob
10. AUX2 Input Level Control Knob
11. Protection Indicator LED (Indicates protection mode. Turn off amplifier, and check for short circuit in speaker wiring or excessive speaker load.)
12. LED Level Indicator
13. MIC 1 Input (Do not use if rear panel MIC 1 jack is used.)

## Rear Panel



1. Common Speaker Output
2. 4-16 ohm Speaker Output (select only one connection from 2, 3, and 4)
3. 70V Speaker Output (select only one connection from 2, 3, and 4)
4. 100V Speaker Output (select only one connection from 2, 3, and 4)
5. MIC 1 Interrupt Time Adjustment (adjusts from sharp to gradual the restoration of AUX inputs after interruption by MIC1 input)
6. MIC 1 Dual Input (XLR & 1/4"/6.3mm)(do not use if front panel MIC 1 jack is used)
7. Phantom Power On/Off (for use with condenser-type microphones requiring amplifier power)
8. MIC 2 Input (1/4"/6.3mm)
9. MIC 3 Input (1/4"/6.3mm)
10. AUX 1 Input (RCA) Note: although dual input jacks allow stereo input, the left and right channels are summed into a single mono amplified channel
11. AUX 2 Input (RCA) Note: although dual input jacks allow stereo input, the left and right channels are summed into a single mono amplified channel

12. Line Level Output (RCA) Note: if AUX inputs are stereo, the left and right channels are passed to these output jacks
13. Monitor/MOH Output (for use with monitor speaker or telephone music on hold input)
14. 100-120 VAC / 60 Hz Power Input

## Usage Notes

1. Do not power on the amplifier until all input sources and speakers are securely connected. Turn the volume knob to its minimum setting before powering on the amplifier to prevent speaker damage.
2. The total power consumption rating of the speakers must not exceed the amplifier's continuous power rating. The 4-16 ohm connector should not be used for 70V or 100V speakers. When using this connection, the total speaker impedance should be 4-16 ohms.
3. If the amplifier detects a surge or irregular signal input (including power surges, excess signal or other interference), a short-circuit condition in the speaker wiring or an excessive speaker load, the amplifier will shut down for self-protection. If this occurs, please turn the amplifier off, check for these problems and take corrective action before turning the amplifier on again.

## Safety and Operation

Please read before operating your unit!

1. **Read Instructions:** This manual should be read thoroughly prior to operating the unit.
2. **Retain Instructions:** This manual should be retained in a safe place for future reference.
3. **Heed Warnings:** All warnings on the unit and in this manual should be adhered to.
4. **Follow Instructions:** All operating and use of instructions should be followed.
5. **Water and Moisture:** The unit should not be used near water (washtubs, sinks, in a wet basement or near a swimming pool, etc.).
6. **Ventilation:** Overheating caused by improper ventilation is one of the primary causes of premature failure of electronics. The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should never be situated on a bed, sofa, rug, or similar surface that may block ventilation openings; or placed in a built-in installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings.
7. **Heat:** The unit should not be situated in any excessively hot area.
8. **Dust:** The unit should not be situated in any excessively dusty area.
9. **Grounding or Polarization:** Do not attempt to defeat the grounding and polarization protection provided by the design of the power adapter plug.
10. **Power Cord Protection:** Power supply cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.
11. **Object and Liquid Entry:** Care should be taken so that objects do not fall and liquids are not spilled into the unit enclosure through openings.
12. **Damage Requiring Service:** The unit should be returned to AMTC when:
  - a. The power supply cord or the plug has been damaged; or
  - b. Objects have fallen, or liquid has spilled, into the unit; or
  - c. The unit has been exposed to rain; or
  - d. The unit does not appear to operate normally or exhibits a marked change in performance; or
  - e. The unit has been dropped or the enclosure has been damaged.



13. Servicing: The user should never attempt to service the unit except as described in this manual. All other servicing should be referred to AMTC.

### **Limited Warranty**

Applied Media Technologies Corporation ("AMTC") warrants this product against defective material and workmanship for a period of one year from the date of purchase. Except as specified below, this warrant covers parts and labor. The following are not covered by this warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:

- a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
- b) Improper installation, removal or maintenance, or failure to follow the instructions contained in the manual.
- c) Repair or attempted repair by anyone other than AMTC, or its network of authorized installers.
- d) Any shipment of this product (claims must be presented to the carrier)
- e) Any cause other than a product defect.

2. Cleaning, initial setup, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.

3. Any product on which the serial number has been defaced, modified or removed.

4. Accessories, including but not limited to, cables, mounting shelves or stands, detachable power cords, antenna and timer units.

5. Any product purchased outside the U.S.A, Its possessions or territories.

6. Compatibility of this product with any particular interface.

This warranty may be enforced by the original purchaser. In the event this product needs service, contact AMTC at 1.800.741.AMTC (2682). We will advise you of proper procedure. Please do not return the product to AMTC without prior authorization. Whenever warranty service is required, you may be required to present original proof of purchase. All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty. Liability for any defect is limited to repair or replacement of this product at the option of AMTC. AMTC shall not be liable for damage to other products caused by defects in this product, damages based on inconvenience or loss of use of this product, or any other

damages, whether incidental, consequential or otherwise. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is enforceable only inside the U.S.A, its possessions and territories.