

MA Series

MULTICHANNEL POWER AMPLIFIERS

MA-150.8 **MA-80.8**
MA-150.4 **MA-80.4**
MTR-150
MTR-80
RVC-1



MA Series multichannel amplifiers are designed to simplify and enhance modern distributed sound installations. Many applications from fashion shops, restaurants, gyms, etc, can benefit our new special function as bridge mode to drive SW, remote volume controller, limiter and high pass filters per channel. Great number of channels means an individual and precise SPL zone tuning. The units can drive 100V lines by using the MTR accessory.

FEATURES:

- ROBUST discrete bipolar transistor design.
- VCA CONTROL. Allowing Remote Volume Control of each channel individually.
- FULL PROTECTIONS. Including Output relays, DC and Temperature controlled fans.
- HPF switchable Subsonic Filter per channel, for ease satellite+SW applications.
- BRIDGE mode switchable per output pair of channels: 300 W at 8 Ohm each pair.
- XLR/TRS Balanced Inputs and Channel Linking facilities.
- BANANA Output connectors. Simple set-up.
- LIMITER. Allows anticlip secure operation.
- FRONT panel indicators: Signal, Clip and On/protect per channel.
- OPTIONS: RVC-1. Low cost wall mounted remote control. MTR-150 MTR-80. High bandwidth 100V PA transformers. 2U box. 4 channels per unit.



Rear panel

MODEL	# CH	OUTPUT POWER (WATTS RMS @ 1Khz, THD+N 0,1 %)		PEAK POWER	
		Per channel	Bridge Mode	Per channel	
		8Ω	4Ω	8Ω	4Ω
MA-150.8	8	80	150	300	200
MA-150.4	4	80	150	300	200
MA-80.8	8	50	80	160	100
MA-80.4	4	50	80	160	100

OPERATING MODE: ALL CHANNELS AT FULL POWER

RVC-1

Optional remote volume control



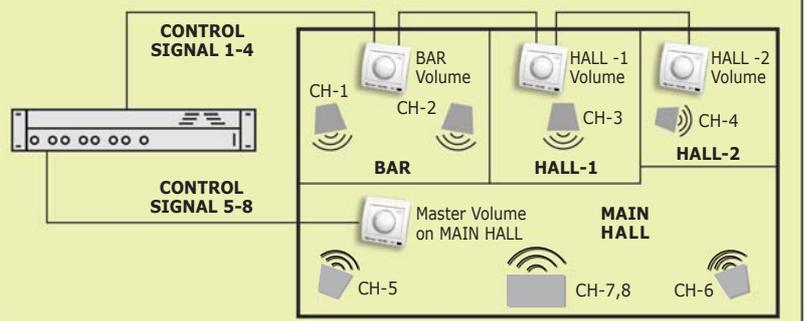
Two or more RVC-1 can be connected in cascade for individual or group remote control of any of the 8 channels as installation demands.

RVC-1 boxes are designed to be installed in electrical wall boxes with standard cat-5 cabling. Control level are normalised to enable remote control by another third party automated systems.

REMOTE VOLUME CONTROLLER. Application

RVC-1

EXAMPLE OF TYPICAL APPLICATION:
Power and Signal cabling not shown.
RVC-1 can be installed on electrical boxes with decorative mounting plates.



TOTAL HARMONIC DISTORTION (THD+N)

Less than 0,05% at full power, 4 ohm/1Khz

INTERMODULATION DISTORTION

SMPTE less than 0,08 % freq. 60Hz / 7Khz
DIM-30 less than 0,04 % at 4 Ohm.

INPUT IMPEDANCE

Balanced: 20 Kohm. Unbalanced: 10 Kohm

C.M.R.R.

Typical value: >60 dB at 1 KHz.

DAMPING FACTOR

Higher than 300 at 1 KHz / 8 Ohm.

SIGNAL to NOISE RATIO (A/W)

Better than 100 dB from 20 Hz to 20 KHz.

BANDWIDTH

20 Hz to 20 KHz (0, -0.5 dB)

SLEW RATE

20 V/us.

CROSSTALK

Better than 60 dB at 1 KHz.

INPUT CHANNEL CONNECTION

XLR and 1/4 Jack electronically balanced.
Selectable 100 Hz HPF per channel. User freq. select.

OUTPUT CHANNEL CONNECTION

Two Binding posts per channel.

FRONT PANEL INDICATORS

CLIP/LIMIT led per channel.
SIGNAL (signal presence) per channel.
BRIDGE led. One per channel pair.
ON/PROTECT led. One per channel pair.

THERMAL MANAGEMENT

Front/rear low noise servo-assisted fan.

PROTECTIONS

Short circuit and thermal protection.
Limiter on each output.
D.C. on the outputs protection.
Inrush and transient protection.

MAINS POWER

115/230 VAC +10, -30 %. 50/60 Hz. Internal switch.

NETT/SHIPPING WEIGHT

MA-80.8	13 Kg/16 Kg
MA-80.4	12 Kg/15 Kg
MA-150.8 1	5 Kg/18 Kg
MA-150.4	14 Kg/17 Kg

DIMENSIONS

483x89x370 m/m (19"x2U)

ACCESSORIES

RVC- 1

- Master-Slave connection by Cat-5 8 wire / RJ-45
- Maximum length : 300 m.
- To be mounted on standard 80x80x40 wall boxes.

MTR-150/MTR-80

- 100V and 70 V outputs for PA systems.
- Power 4 x 150 watts (4x80 watts MTR-80)
- Dimensions: 2U rack, 210 mm deep.

MA Series
MTR-80/MTR-150

MA Series
FOUR CHANNEL
LINE TRANSFORMER UNIT

MTR 150/80 boxes are ideally suited as an accessory option for the Altair MA series multichannel amplifiers in 70 or 100 Volts P.A. line distributed audio applications.

Each box contains four high quality, low LF distortion transformers. Special wound technics and high grade core materials ensures an extended low frequency operation down to 50 Hz at full power. Transient response is excellent, allowing the use in high performance music and speech applications.



Rear panel



TECHNICAL SPECIFICATIONS

BANDWIDTH

50 Hz to 20 KHz (0, -1 dB)

THD + N

<0,05% from 45 Hz to 20 KHz

CROSSTALK

Better than 90 dB at 1 KHz

CONNECTIONS

Heavy Duty dual binding posts.

INPUT/OUTPUT (x4)

MTR-80: IN 18 V // OUTS: 70 and 100V line 80 WATT
MTR-150: IN 25 V // OUTS: 70 and 100V line 150 WATT

DIMENSIONS

483x89x220 m/m (19"x2U), including connectors.

NETT/SHIPPING WEIGHT

MTR-80 /MTR-150 11 Kg/14 Kg

Specifications subject to change without notice.

FEATURES:

- Special ears design allows front or rear rack banana panel position.
- Passive, stand alone construction.
- High bandwidth music quality, transformer design.
- BANANA Output connectors. Simple and visual set-up.
- 4 CHANNELS compact unit.

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