

MSR-604/602



MSR-604/602 II

The MSR-604 II is a 4-channel one by four, active microphone/line level distribution system, capable of supplying 4, 8, 12, or 16 outputs from a single input. Each channel features an electronically balanced input with transformer option, MIC/LINE switching, GAIN switching, LISTEN facility for monitoring via the MSR-602 II PSU, phantom power, active outputs for main FOH and monitor consoles, and two transformer-coupled feeds giving 2500V isolation for any application requiring isolation from the main PA system. The system requires an MSR-602 II power supply, and is compatible with existing MSR-604 units (adapter cables required).

Options:
MSR-TIXII
Input balancing kit

MSR-TOXII
Output balancing for FOH and monitor outputs

604-II-ADK
PSU adapter cable for use with MSR-604 type 1 units

The MSR-602 II is the power supply for the MSR-604 II and will run 10 MSR-604 II units. The unit also provides the headphone monitor output and signal metering. Two MSR-602 II units may be linked for fail-safe operation.

Channels: Four, independent or internally interconnected

TECHNICAL SPECIFICATION

Input Section

IMPEDANCE
Mic: 2k Ω Line: 10k Ω , electronically balanced

MAX. INPUT LEVEL
Mic: +13dBu Line: +33dBu

INPUT CMRR
>90dB @1kHz >75dB 50Hz to 10kHz

CONNECTOR
XLR3-31 or equivalent

PHANTOM POWER
48V DC via panel switch and LED indicator

Outputs

OUTPUTS
Main (F.O.H) & Mon, electronically balanced

IMPEDANCE
+3 out: <23 Ω , +13 out: <71 Ω ,
+23 out: <100 Ω

CONNECTORS
XLR3-32 or equivalent

MAX. OUTPUT LEVEL
+3dBm, +13dBm, +23dBu, internally preset

See your local dealer or contact: BSS Audio, Linkside House, Summit Road, Potters Bar, Hertfordshire EN6 3JB. United Kingdom.

*Tel: +44(0)1707 660667 Fax: +44(0)1707 660755
<http://www.bss.co.uk>*

*USA Distribution: Harman Pro North America, 1449 Donelson Pike, Nashville TN 37217, USA.
Tel: (615) 399 2199 Fax: (615) 367 9046*

MSR-604/602



MAX. LOAD
+3 out: 200Ω +13, +23 out: 600Ω

OUTPUTS
Feeds, One & Two, Transformer balanced

IMPEDANCE
<50Ω

MAX. OUTPUT LEVEL
+3dBm

MAX. LOAD
600Ω

ISOLATION
2.5kV AC rms

Gain Functions

GAIN
-40dB to +50dB

GAIN SWITCH
-10, 0, 10, 20, 30 via panel

MIC/LINE PAD
0 / -20dB via panel

REMOTE PAD
0 / -10dB via F.O.H phantom

OUTPUT SCALING
+20/+10/0dB via internal jumper blocks

(Main & Mon only)

System Performance

FREQUENCY RESPONSE
<+/-0.5dB 20Hz to 20kHz

NOISE (E.I.N)
-10dB gain: <-114dBu
0dB gain: <-121dBu
10dB gain: <-124dBu
20dB gain: <-125dBu
30dB gain: <-126dBu

DISTORTION
(T.H.D) <0.1% 20Hz to 20kHz @ 10dB below clip

Level metering and monitoring

CHANNEL
Clip LED @ 1dB below clip

HEADROOM METER
On MSR-602 II PSU: Six point LED meter:).
-1, -3, -6, -12, -26dB via LISTEN switch
(momentary)

HEADPHONE MONITOR
On MSR-602 II PSU: via LISTEN switch
(momentary)

Stereo/Mono 1/4" Jack socket

Load Impedance: 4Ω to 600Ω

Maximum Output: 1Ω rms

Level control: -90dB to 0dB

General

POWER REQUIREMENTS
+/-27V DC, +48V DC from MSR-602 II PSU
only

Connectors: 9 pin 'D', with lock jackscrews

WEIGHT
3.8kg net, 8.4 lbs

DIMENSIONS
44mm x 482mm x 293mm, 1.75" x 19" x 11.6"

MSR-602 II POWER SUPPLY FOR MSR-604 II

AC INPUT
90-130/180-260 V AC 50/60Hz @ 150VA

CONNECTOR
3 pin IEC with locking clip

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VOLTAGE SELECTOR

Rear panel: 120/240 V

SWITCH

Rear panel: High-inrush

FUSE

Rear panel: F6.3A (120V)/F5A (240V)

DC OUTPUTS

+27V unregulated @ 4A max: low ripple

-27V unregulated @ 4A max: low ripple

48V +/-5% regulated @ 500mA max

FUSES

Rear panel: F5A (+27V); F5A (-27V);
F500mA (+48V)

CONNECTORS

9 pin 'D' female: Loop out

9 pin 'D' male: Loop return

SYSTEM GROUND LIFT

Rear panel: Slide switch

INDICATORS

3 LED's, post-fuse, on +27, -27 and +48V
outputs

HEADROOM METER

Via LISTEN bus and MSR-604 II

LISTEN switch (momentary)

Six point LED meter: 0, -1, 3, -6, -12, -26dB
ref clip Input: via DC loop out connector

HEADPHONE METER

Via LISTEN bus and MSR-604 II

LISTEN switch

Input : via DC Loop out connector

Connector: Stereo/Mono 1/4" Jack socket

Load Impedance: 4 Ω to 600 Ω

Maximum Output: 4 Ω : 860m Ω rms

200 Ω : 750m Ω rms

Level control:

Continuously variable -90dB to 0dB

Headroom: >MSR-604 II channel clip

WEIGHT

7.0kg net, 15.4 lbs

DIMENSIONS

44mm x 482mm x 293mm, 1.75" x 19" x 11.6"

In keeping with our policy of continued improvement, BSS Audio, reserves the right to alter specifications without further notice. This product was designed developed and produced by BSS Audio, Hertfordshire, England.

A Harman International Company.

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