



# SOUND MASKING GENERATOR/EQUALIZER WITH 2-CHANNEL DSP AND PAGE INPUT

ASP-MG24



ASP-MG24  
(Front Panel)

## SPECIFICATIONS

|                                     |  |
|-------------------------------------|--|
| <b>Computer Interface:</b>          | USB, RS-232 and Ethernet                                       |
| <b>Power Consumption:</b>           | <21watts   |
| <b>Input impedance (balanced):</b>  | Line 10kΩ, Mic 10kΩ  |
| <b>Maximum Input (balanced):</b>    | +20dBu   |
| <b>Output Impedance (balanced):</b> | 50Ω  |
| <b>Maximum Output (balanced):</b>   | +20dBu   |
| <b>Frequency Response:</b>          | ± 0.1dB (20Hz - 20kHz)   |
| <b>Dynamic Range:</b>               | 115dB (unweighted)   |
| <b>CMMR:</b>                        | >60dB (50Hz - 10kHz)   |
| <b>Crosstalk:</b>                   | <-100dB  |
| <b>Distortion:</b>                  | 0.02% (1kHz @ +4dB)  |
| <b>Processor:</b>                   | 32-bit (40-bit extended)                                       |
| <b>Sampling Rate:</b>               | 96kHz  |
| <b>Analog Converters:</b>           | High Performance 24-bit  |
| <b>Propagation Delay:</b>           | 3ms  |
| <b>Level Meters:</b>                | In/Out 5 segment LED   |
| <b>RS-232:</b>                      | Female DB-9  |
| <b>Gain:</b>                        | -40dB to +15dB in 0.25dB steps                                 |
| <b>Delay:</b>                       | Up to 200ms per I/O  |
| <b>Parametric Filters:</b>          | 8 per I/O  |
| <b>Filter Bandwidth:</b>            | 0.02 to 2.50 octaves (Q=0.5 to 72)                             |
| <b>Power:</b>                       | 115V 20W UL Rated External DC Power Supply                     |
| <b>Dimensions:</b>                  | H 1.75" (44mm) (1 rack space)<br>W 19" (483mm)<br>D 8" (203mm) |
| <b>Weight:</b>                      | 13.2 lbs. (6kg)  |

## FEATURES

- 4 White Pink-noise Generators & 2 Mic/Line inputs with 4-channel DSP processor.
- Generator spectral purity ( $\pm 0.1\text{dB}$  @ 0Hz-20kHz)
- Precision pink-noise filtering (-3dB per octave low-pass)
- Extended "non-apparent" repeat time of noise (200 minutes)
- Combined 1/3-octave & parametric equalization per channel
- Selectable high & low frequency shelving filters per channel
- HPF & LPF with variable frequency & slope per channel
- Leveling, compression, limiting, & soft-gating per channel for use with paging input
- Output delay, with distance/delay calculation, per channel
- Independent matrixes for channel-to-channel mixing
- Variable noise, input, and output levels with software metering
- Thirty non-volatile memory presets store/recall settings
- Balanced input & outputs on connectors
- Programming software included
- No manual controls on front panel, to prevent tampering
- Remote control via USB, RS-232, Ethernet & Accessory Control Panel
- Incorporates AES recommended grounding practices
- Marked and ULC/UL listed power source
- One-year warranty

## APPLICATION

The ASP-MG24 represents the latest technology in digital signal processing (DSP) engines for sound masking generator/equalizers. This model features 4 built-in digital noise generator and two analog input specifically suited for use as a paging input. 6x4 mix matrixes are provided to allow operation in the following configurations:

1. 1, 2, 3, or 4 channel masking
2. Dual Two channel masking
3. Single channel paging
4. Dual channel paging (from single page input source)
5. 1, 2, 3, or 4 channel mixed paging & masking
6. Dual channel mixed paging & masking

The ASP-MG24 offers a variety of user selectable filter options including one-third octave, parametric high/low pass, and high/low shelving filters. All set-up and operating functions of the ASP-MG24 are conducted from a PC using software provided for Windows XP. After defining and downloading the control functions through the PC, the settings will be stored within the unit in non-volatile memory (no battery required). The ASP-MG24 model features 16 program setups.

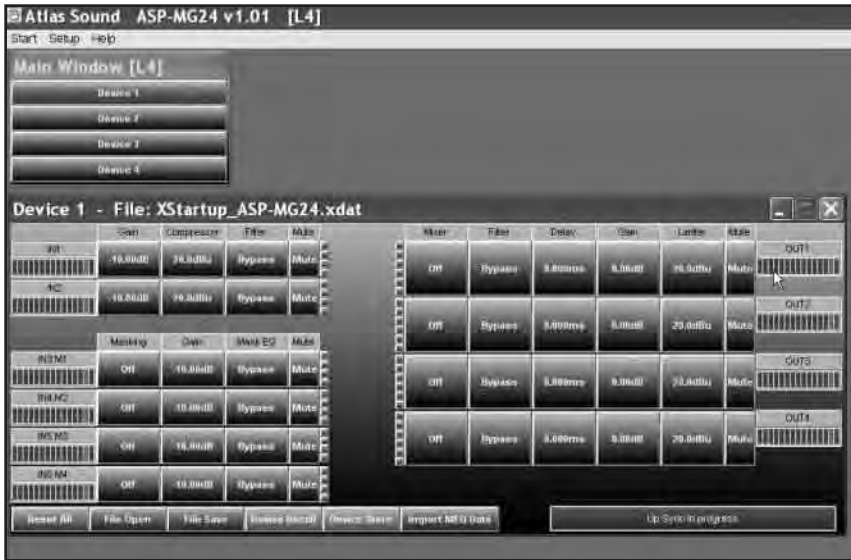
NINE

Specifications subject to change without notice

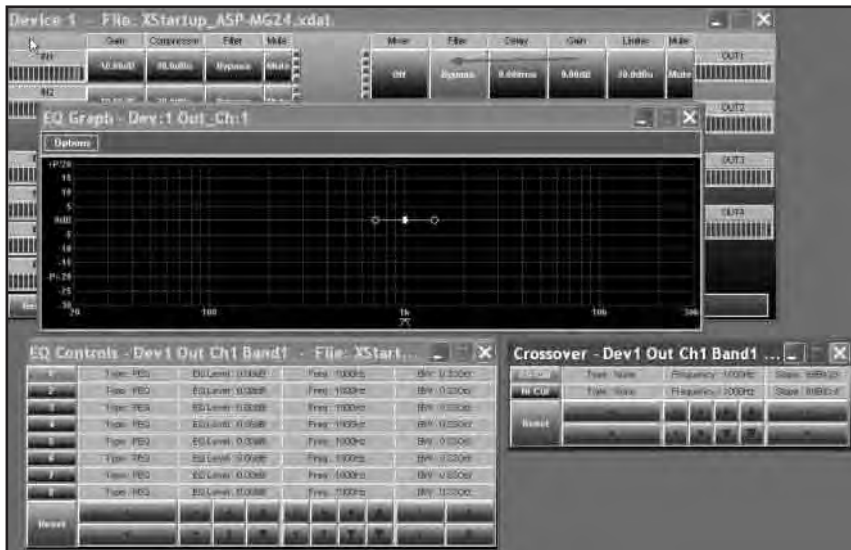


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ASP-MG24 Main Screen



Equalizer Screen

## ARCHITECT AND ENGINEER SPECIFICATIONS

The Atlas Sound ASP-MG24 shall be a 1RU DSP 40 bit 96 KHz 2x4 signal processor with internal masking generators. The ASP-MG24 shall provide two balanced audio Mic/Line-level inputs along with four independent internal digital white/pink noise generators inputs. The mic/line inputs shall provide 30dB of gain. Each of the Mic/Line inputs shall have independent gain control, parametric filter, compressor limiter and mute function. All inputs and outputs shall be provided on plug-in Euro / Phoenix type dockable connectors. The four independent assignable white/pink noise generators shall have a spectral purity of  $\pm 0.1$ dB from 0Hz to 20 kHz, precision low-pass filtering of  $\pm 3$ dB per octave, and an extended "non-apparent" repeat time of 200 minutes. The DSP processor shall provide four independent output channels with gain management, parametric equalization, delay, limiting, mute and mixing matrix. The ASP-MG24 shall have four differentially balanced outputs. Equalization shall be combined 1/3 octave & parametric, fixed high/low shelving filters, and variable high pass-low pass filters. Delay time shall be adjustable for each output, with automatic distance/delay calculation (at STP.) The masking generators shall provide power failure programmable ramp function. The ASP-MG24 shall include an internal socket for an optional advanced masking scheduler card. The ASP-MG24 software shall provide an intuitive GUI interface with level metering capability. All processor controls shall be provided via software graphic interface. Sixteen nonvolatile memory presets shall be available to store/recall processor settings. Serial ports shall allow RS-232 or USB control, with Windows® programming software. The ASP-MG24 shall provide front panel LED monitoring of input and output levels. Optional remote control is available. Frequency Response shall be  $\pm 0.5$ dB (20Hz-20kHz @ +4dBu). THD+N shall be less than 0.002% (20Hz-20kHz @ +4dBu). Dynamic Range shall be greater than 100dB (20Hz-20kHz @ unity gain). Power Consumption shall be less than 21 watts. Dimensions shall be 1.75" high, 19" wide, & 8" deep. Weight shall be 13.2 lbs. Warranty coverage shall be 1-year. The noise masking processor shall be CE marked, include a ULC/UL Listed power source. The processor shall be an Atlas Sound ASP-MG24.

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