

# ASP-MG24

2 Input By 4 Output

SIGNAL PROCESSOR / MASKING GENERATOR

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ATLAS SOUND ASP-MG24
2 INPUT BY 4 OUTPUT SPEAKER SIGNAL PROCESSOR / MASKING GENERATOR

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## 1.0 INTRODUCTION

The Atlas Sound ASP-MG24 is a 2 input by 4 output digital loudspeaker management system and masking generator designed for fixed sound installation markets. The ASP-MG24 features the latest in available technology utilizing a 32-bit (40-bit extended) floating point processors and high performance 24-bit Analog Converters. Both balanced inputs are mic/line selectable along with 4 addition independent masking generator input sources. Inputs and outputs can be routed or mixed in multiple configurations to meet even the most complex system designs. Control parameters include I/O levels, delay, polarity, parametric EQ, crossover selections, 31 band EQ, White/Pink Noise, Auto Ramp, routing, mixing and compressor/limiters. The ASP-MG24 can be controlled or configured in real time with the intuitive PC GUI, accessed via the RS-232 or USB interface. Software upgrade for CPU and DSP via PC always keeps the ASP-MG24 current. Optional masking scheduler and programmable remote control is also available.

## 2.0 FEATURES

- 2 Mic/Line Inputs and 4 Outputs
- System routing and mixing flexibility
- 4 Independent Random Pink or White Noise Generators
- 8 Parametric Filters for each Input and Output
- Multiple Crossover types up to 48dB
- Full Function Compressor Limiters
- Four 1/3rd Octave Graphic Equalizers for Masking
- User set masking auto ramp
- Precise Level, Polarity and Delay
- Full 5-segment LED's on every Input and Output
- Storage of up to 30 Program Setups
- Multiple Levels of Security Locks
- Optional Advance Masking Scheduler
- Optional Programmable System Controller
- RS-232 & USB Interface for PC Control and Configuration
- CPU and DSP upgrade via PC

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### 3.0 FRONT PANEL FEATURES



**1. Power On LED**

Illuminates Blue when the external power supply is plugged into the power socket and the power supply is plugged into a AC source..

**2. Level LED**

5 LED's per channel indicates the status of the signal level: Signal, -12dB, -6dB, -3dB, Over/Limit. The Input "Over" LED references to the device's maximum headroom. The Output "Limit" LED references to the threshold of the limiter.

**3. RS232 Connector**

Standard female DB9 socket. A straight through cable is required for PC connection.

**4. USB Connector**

Standard female USB socket. A straight through cable is required for PC connection

**5. Data LED**

This LED will illuminate Green when there is connection made between the ASP-MG24 and the computer.

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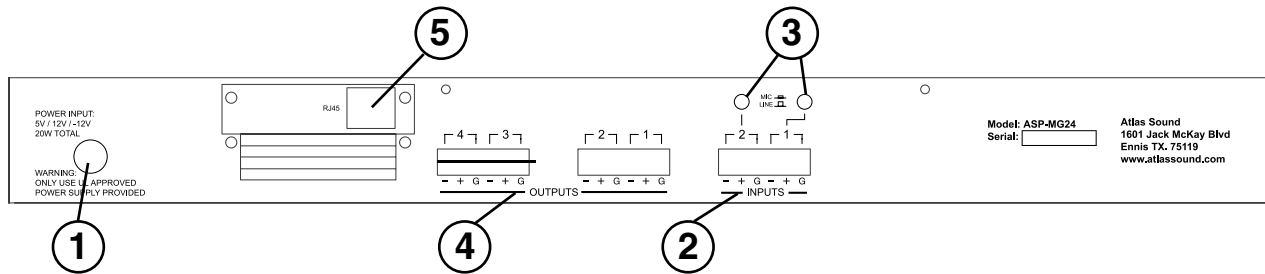


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### 4.0 REAR PANEL FEATURES



#### 1. Power Supply Socket

An external UL rated 120v AC power supply has been included with the ASP-MG24. Only use the provided power supply due to the specific DC voltages required to operate the unit.

#### 2. Input Connectors

There are two removable 3 Pin Phoenix type connectors for providing input signal to the unit. They can accept either a balanced or unbalanced signal. For balanced signals connect (Ground to GND), (Positive signal to +) and (Negative signal to -). For unbalanced signals connect the (- to the GND together) and the Positive to +).

#### 3. Mic / Line Level Selection

Each Input has the capability to accept either a microphone or line level signal. Prior to connecting the inputs make sure the software input gain that apply to the channel routing are set to -10dB. Also the limiters are set to +20dB for gain setup. Prior to applying signal to the input you must set the analog gain switch to match the type of input you are using. The Line position gain is calibrated for 0dBu or unity gain within the DSP software. The Mic position is calibrated for -30dBu when the DSP gain is set for unity or 0dB. If more gain is needed carefully turn the up the appropriate channel DSP gain in the software. If you will be using a microphone it is recommended when starting to turn the input gain to -40dB and slowly bring up the input gain to the desired level.

#### 4. Output Connectors

There are four removable 3 Pin Phoenix type connectors for providing output signal. They can deliver either a balanced or unbalanced signal. For balanced signals connect (Ground to GND), (Positive signal to +) and (Negative signal to -). For unbalanced signals connect the (- to the GND together) and the Positive to +).

#### 5. RJ45 Port

This port is used for remote system controllers. For Ethernet connection an optional card is required. Call Atlas for more details.

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## 5.0 GETTING TO KNOW THE SOFTWARE

### 5.1. Loading the software

1. Load the software onto your computer by following the Quick Star Guide and Software Installation Guide.
2. **Note: It is important to have your computer screen resolution set to the highest viewing setting or a minimal setting of 1280 x 1240 pixels.** Failure to do may cause the dialog boxes to appear out the viewing area. To find a window that should appear use the master screen cursor Up/Down arrows to find the three boxes. All screens can be moved by clicking and holding the selected screen for personal viewing preferences.
3. After the software is loaded and the proper screen resolution is set. Open the software and follow the steps below: Note: It is not necessary to have the computer connected to the ASP-MG24 viewing and program purposes.

### 5.2. Opening the Software

1. Your screen should look like the view below. If not, close the software and restart.
2. If you have the ASP-MG24 connected to your computer click "Yes " to connect or you can work in Off Line Mode by clicking "NO".
3. After you have the screen above, click on (1) Start, (2) Log On and then (3) Enter. Do not put anything into the pass word box at this time. Later you will assign one if needed. If a pass word has been assigned, you will need to enter it.



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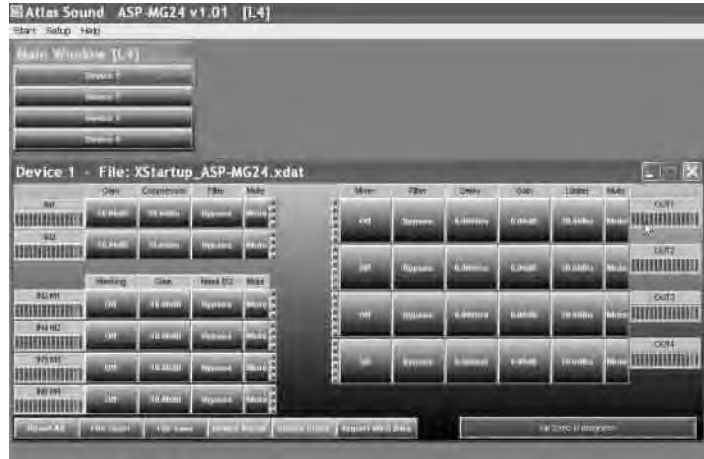


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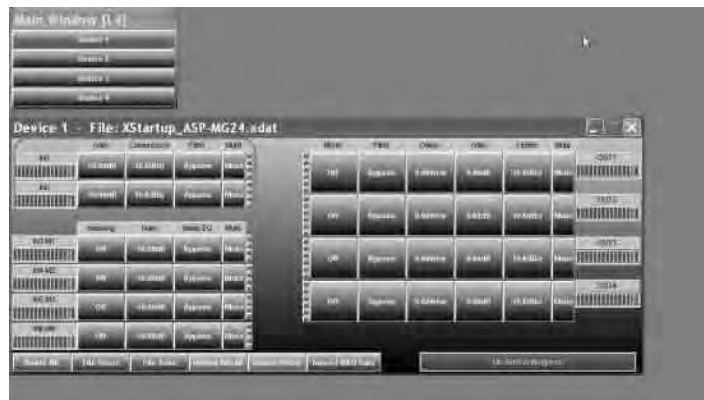
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You are now ready to open the Device panel by clicking on Device 1. Note: An ASP-MG24 is also known as a "Device". Multiple ASP-MG24's can be controlled via one GUI interface. If only one ASP unit is connected to the computer click on Device 1 and the main control window will appear.



### 6.0 MIC / LINE INPUT SECTION



**6.1 Input Meter** - The bar graph meter illustrates the level of the input signal POST the channels gain control and is PRE input filters and compressor settings.



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**6.2 Gain** – For your convenience both Mic / Line Inputs and the four masking generators levels are shown. Controlling the gain can be accomplished by dragging the fader, using the up down buttons or by typing in the number viewing text box. Channel Mute can be accomplished by clicking on the Mute tab and will illumination Red indicating the channel is in Mute. Input Polarity can be set by clicking on the Polarity tab.



**6.3 Compressor** – Inputs 1 & 2 have fully adjustable compressor limiters. When clicking on the compressor tab, two sub viewing screens will appear. Note: All control boxes can be dragged for desired positioning of the screen. Screen 1 is an indicator screen showing the compressor / limiter operation. The second is the settings screen. In that screen you have control over Threshold, Attack, Release and Ratio. Adjustment can be made using the Up / Down arrows or by typing into the data viewing text box.



- **THRESHOLD** - Limit Threshold. Ranges from -20 to +20dBu in 0.5dB steps.
- **ATTACK** - Attack time. Ranges from 0.3 to 1ms in 0.1ms steps, and ranges from 1 to 100ms in 1ms steps.
- **RELEASE** - Release time. Can be set at 2X, 4X, 8X, 16X or 32X the attack time.
- **RATIO** – The Ratio control allows adjustment to the amount of Input vs. Output level with signals exceeding the set threshold limit.

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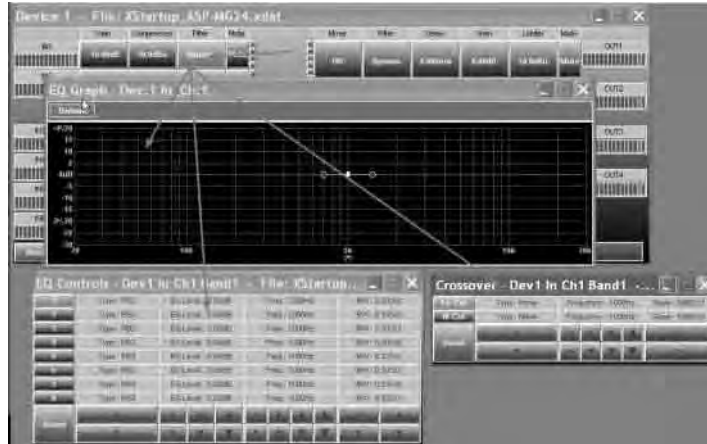


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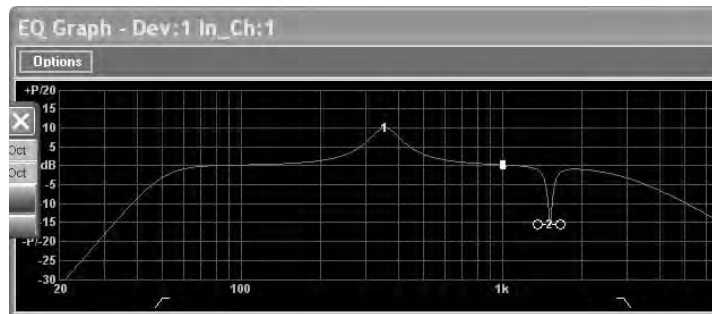
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**6.4 Filter** - When clicking on the filter screen 3 sub viewing screens appear. Note: If the screens do not appear you may have to change your screen resolution. Also use the screen curser Up/Down arrows to find the three boxes. All three screens can be moved by clicking and holding the selected screen for personal viewing preferences.



**6.5 Graphic Screen** – This screen will view all the all filter chacteristics that are set.



**6.6 Filter Adjust Window** – Each input has 8 adjustable filter selections. Choices are Parametric, Hi-shelf and Lo-shelf. Adjustments can be made via the up / down arrows, text window and by dragging the curser on the Graphics Screen. After any adjustment made they should appear on the Graphic Screen.

| 1     | Type: PEQ | EQ Level: 10.00dB  | Freq: 353Hz  | BW: 0.64Oct |
|-------|-----------|--------------------|--------------|-------------|
| 2     | Type: PEQ | EQ Level: -15.50dB | Freq: 1512Hz | BW: 0.08Oct |
| 3     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| 4     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| 5     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| 6     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| 7     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| 8     | Type: PEQ | EQ Level: 0.00dB   | Freq: 1000Hz | BW: 0.33Oct |
| Reset |           |                    |              |             |

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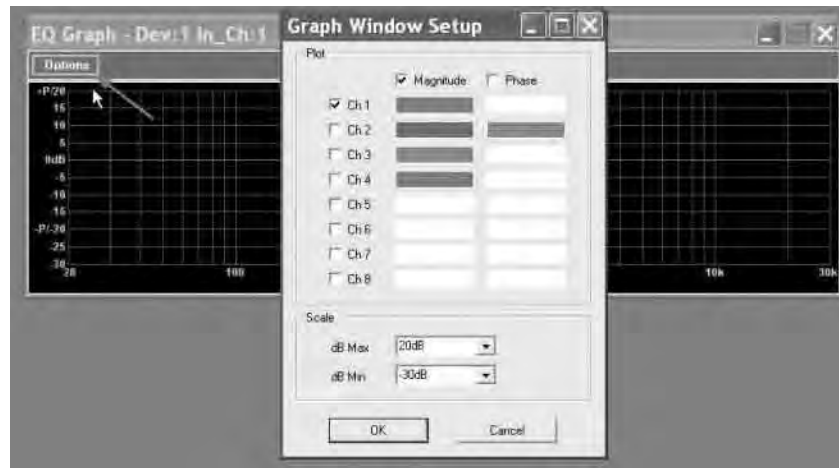
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**6.7 Crossover Window** – The Crossover Window allows the adjustment of Filter type, Frequency, and slope. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings.



**6.8 Graph Sub Screen Window** – Advance Viewing Feature - In the top right corner of the window there is option button. This window allows you to view multiple channels of filters. Re set the viewing scale. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings



**6.9 Mute** – This button when depressed turns Red and mutes the signal at the input of the channel.



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### 7.0 MASKING GENERATOR INPUTS



**7.1 Meter** – There are four bar graph meters that illustrates the level of the output signal of the generator, it is POST the channels gain control and PRE input filters.



**7.2 Masking** – When the Masking window a small window will open. This window also to the selection of the filter either White or Pink noise.

**7.3 Ramp Time** - The Power Ramp button allows you set the desired turn on signal ramp time during power up. The Time buttons allows you to adjust the amount of preset time you need. The amount of steps is a formula of gain divided by time. The ramp interval voltage change will occur every 6 seconds. The amount of dB steps will vary depending on the total ramp time you select and the amount of gain from change from -40dB. Example: If you choose 2 minute of ramp time and the channels gain is set for -10dB, use the following is the formula to calculate dB rate of change (Gain = -40dB minus -10dB = -30dB) and (Time = 120 seconds / 6 seconds = 20 steps) Gain Steps = 30dB / 20 steps = 1.5 dB change per second.

**7.4 Ramp Bypass** - If the Power UP Ramp button is Green the ramp feature is engaged, if grey the feature is bypassed.

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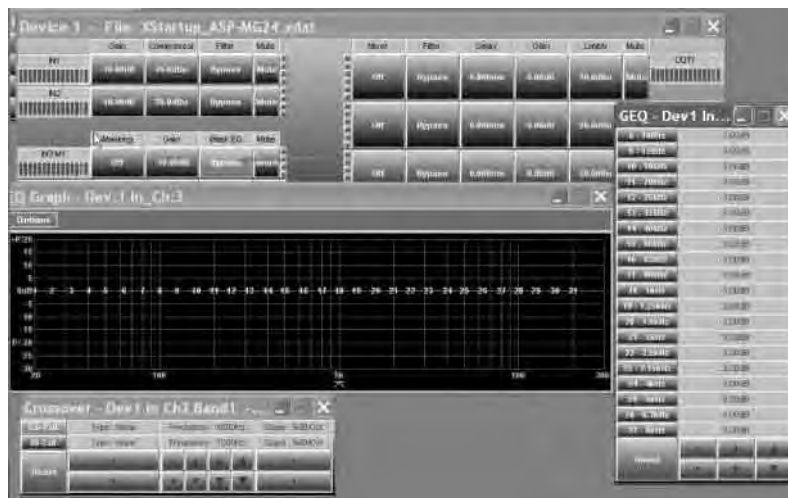
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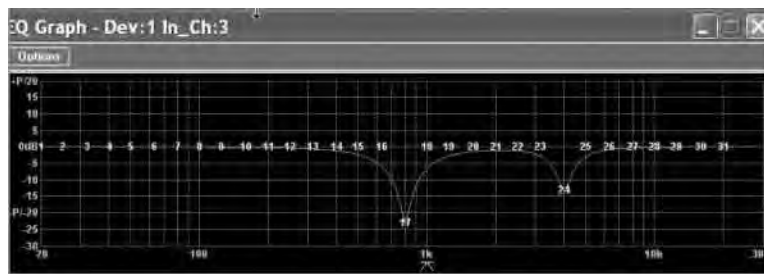
7.5 Gain - For you convenience both Mic / Line Inputs and the four masking generators levels are shown. Controlling the gain can be accomplished by dragging the fader or by using the up down buttons or by typing in number viewing text box. Channel Mute can be accomplished by clicking on the Mute tab and will illumination Red indicating the channel is in Mute.



7.6 Masking EQ - When clicking on the filter screen, 3 sub viewing screens appear. Note: All three screens can be moved for personal viewing preferences.



7.7 Graphic Screen – This screen will view all the all filter characteristics that are set. There 31 filter select points on the screen. By dragging your cursor over the number and left clicking the mouse and holding you can drag the filter to the amount of boost or cut for a specified 1/3 octave frequency.



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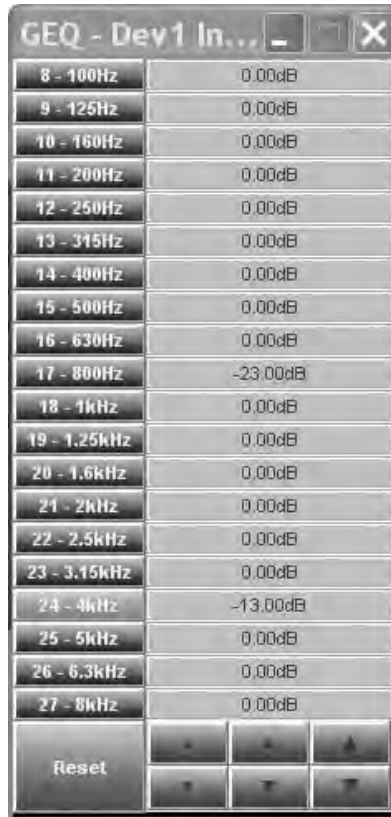


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7.8 1/3<sup>rd</sup> Octave Graphic Screen – This screen corresponds with the Graph screen. There are 20 filters that appear in this window. That is because the masking operating range is from 100Hz to 8KHz..Adjustments to the filters can be made dragging the filter number on the screen or by typing the number into the window or by using the UP / Down arrows. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings.



7.9 Crossover Window – The Crossover Window allows the adjustment of Filter type, Frequency, and slope. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings



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7.10 Mute - This button when depressed turns Red and mutes the signal at the input of the channel.



### 8.0 OUTPUT WINDOWS



8.1 Mixer – This button allows you to route or mix any of the inputs to this output. When clicking on this button a window will appear that shows all six inputs. Each input channels gain operates from OFF to 0dB. Controlling the mixed gain can be accomplished by dragging the fader or by using the up down buttons or by typing in number viewing text box. Note: The signal feeding into the mixer will not be effect by other output channel mixes. When you have completed you routing or mix you can view the route by channel indicator lines or by the number of channels indicated in the mixer viewing window.



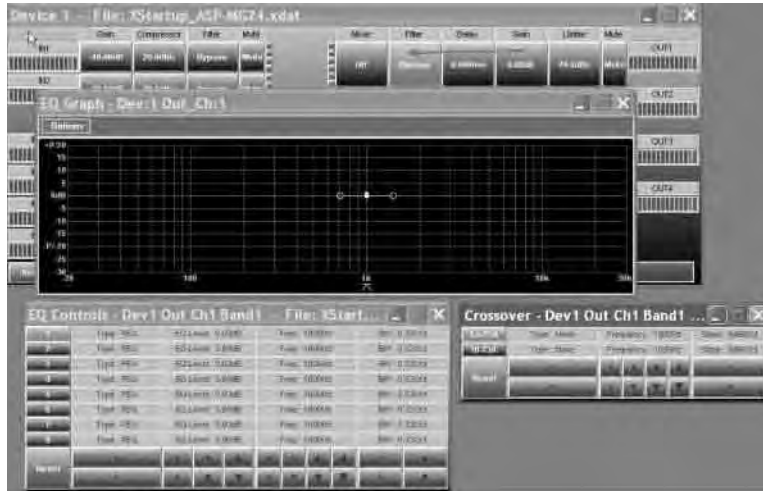
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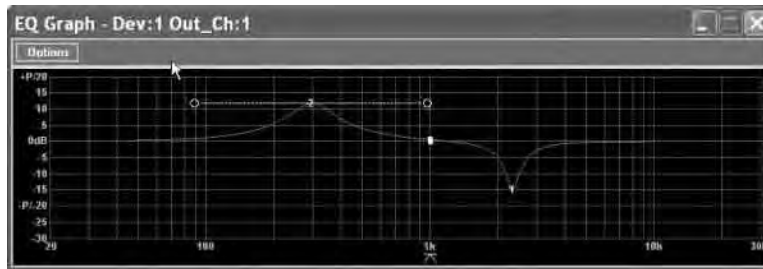
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**8.2 Filter** - When clicking on the filter screen 3 sub viewing screens appear. Note: All three screens can be moved for personal viewing preferences.



**8.3 Graphic Screen** – This screen will view all the all filter characteristics that are set.



**8.4 Filter Window** – Each input has 8 adjustable filter selections. Choices are Parametric, Hi-shelf and Lo-shelf. Adjustments can be made via the up / down arrows, text window and by dragging the cursor on the Graphics Screen. After any adjustment made they should appear on the Graphic Screen.

| Band | Type | EQ Level | Freq   | BW      |
|------|------|----------|--------|---------|
| 1    | PEQ  | -15.00dB | 2322Hz | 0.33Oct |
| 2    | PEQ  | 11.75dB  | 295Hz  | 1.06Oct |
| 3    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |
| 4    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |
| 5    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |
| 6    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |
| 7    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |
| 8    | PEQ  | 0.00dB   | 1000Hz | 0.33Oct |

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**8.5 Crossover Window** – The Crossover Window allows the adjustment of Filter type, Frequency, and slope. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings.



**8.6 Delay Window** – The delay window allows you adjust the channels delay from 0ms to 200ms per output. Controlling the mixed gain can be accomplished by using the up down buttons or by typing in number viewing text box.



**8.7 Gain** - The four output gain levels are shown when clicking on this window. Controlling the gain can be accomplished by dragging the fader or by using the up down buttons or by typing in number viewing text box. Channel Mute can be accomplished by clicking on the Mute tab and will illumination Red indicating the channel is in Mute. Input Polarity can be set by clicking on the tab.



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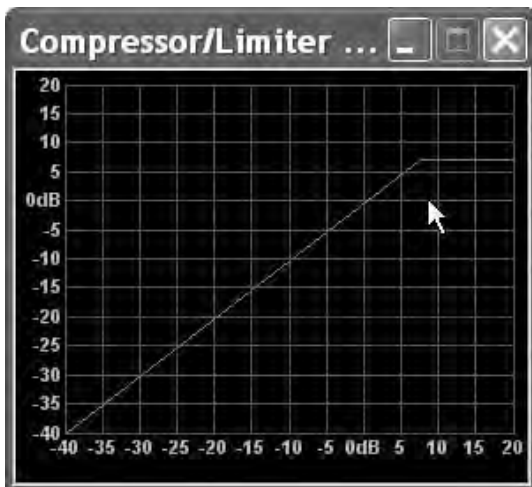
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**8.8 Limiter** – All four outputs have fully adjustable limiters. When clicking on the compressor tab, two sub viewing screens will appear. Note: All control boxes can be dragged for desired positioning of the screen. Screen 1 is an indicator screen showing the compressor / limiter operation. The second is the settings screen. In that screen you have control over Threshold, Attack, Release and Ratio. Adjustment can be made using the Up / Down arrows or by typing into the data viewing text box.



- THRESHOLD - Limit Threshold. Ranges from -20 to +20dBu in 0.5dB steps.
- ATTACK - Attack time. Ranges from 0.3 to 1ms in 0.1ms steps, and ranges from 1 to 100ms in 1ms steps.
- RELEASE - Release time. Can be set at 2X, 4X, 8X, 16X or 32X the attack time.
- RATIO – The Ratio control allows adjustment to the amount of Input vs. Output level with signals exceeding the set threshold limit.



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**8.9 Mute** - Channel Mute can be accomplished by clicking on the Mute tab and will illumination Red indicating the channel is in Mute.



**8.10 Output Meter** - The bar graph meter illustrates the level of the output signal **POST** the channels gain control and filters but is **PRE** Limiter settings.



### 9.0 FILE IMPORT AND EXPORT



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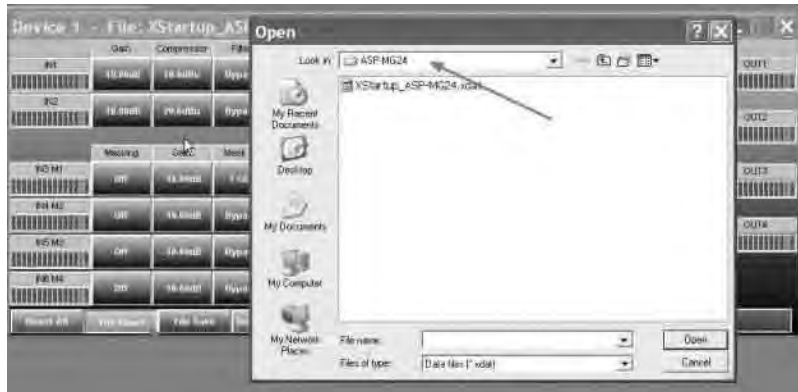
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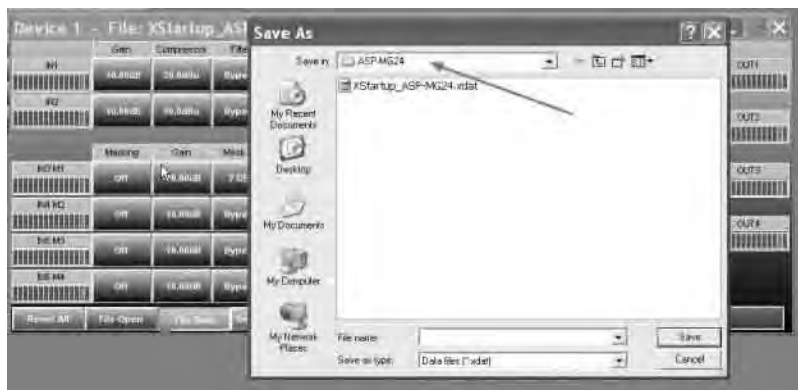
**9.1 Master Reset All** – This button is the master rest button and will override all settings. Note: It will ask you if you are sure.



**9.2 File Open** – Program files can be recalled from your PC or Laptop. It operates like any other window files storing device. For your convenience you can preprogram a file in demo mode, save the file and loaded later into the device.



**9.3 File Save** - Program files can be saved to your PC or Laptop. It operates like any other window files storing device. For your convenience you can preprogram a file in demo mode, save the file and loaded later into the device.



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**9.4 Device Recall** - The ASP-MG24 has a built in non-volatile memory that can store up to 30 different program setups. A program can be recalled from the device. When doing so, only one program can be open on the desktop GUI. Once recalled, the program name and number will be at the top of the main screen.



**9.5 Device Store** - The ASP-MG24 has a built in non-volatile memory that can store up to 30 different program setups. A program can be stored using this menu. The old program with the same program number will be replaced. Once the program is stored in the flash memory, it can be recalled at a later time, even after power down.



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**9.6 Import MEQ Data** – This window allow you to directly import files from the Atlas Sound room measurement software called MEQ. This is an advanced feature, contact support for more details.



**9.7 Sync Process** – This window indicates the status of the connection between the GUI software and the devices. This window corresponds with Setup/ Port Connection window at the top of the page.



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## 10.0 SPECIFICATIONS

- Type; DSP Controller 2x4 Speaker Processor / Masking Generator
- Input Impedance: Line 10k Ohms, Mic
- Output Impedance: 50 Ohms
- Maximum Input & Output Level: +20dBu
- Frequency Response: +/- 0.1dB (20 to 20kHz)
- Dynamic Range: 115dB (unweighted)
- CMMR: > 60dB (50 to 10kHz)
- Crosstalk: < -100dB
- Distortion: 0.02% (1kHz @ +4dBu)
- Processor: 32-bit (40-bit extended)
- Sampling Rate: 96kHz
- Analog Converters: High Performance 24-bit
- Propagation Delay: 3ms

### Front Panel

- Level Meters: In/Out 5 segment LED
- RS-232: Female DB-9
- Power LED
- Data Status LED
- USB Interface

### Rear Panel

- 2 selectable Mic / Line Inputs, 3-pin balanced Phoenix
- 2 Mic / line Switches
- 4 Outputs, 3-pin balanced Phoenix
- DC Power Receptacle

### General

- Power: 115V 20W UL Rated External DC Power Supply
- Dimensions: 19"x1.75"x8" (483x44x203 mm)
- Weight: 13.2 lbs / 6 kg

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**Audio Control Parameters**

- Gain: -40dB to +15dB in 0.25dB steps
- Polarity: +/-
- Delay: Up to 200ms per I/O
- Parametric Filters (8 per I/O)
- Hi-shelf, Lo-shelf Filters
- Filter Bandwidth: 0.02 to 2.50 octaves (Q=0.5 to 72)
- Masking Inputs
  - o 4 Independent generators
  - o White or Pink Noise
  - o 31 Band EQ per output
  - o Parametric Filters, Crossover, Gain per output
  - o Turn on Auto ramp 0:00 – 10:00 min
- Crossover Filters (2 per Output)
  - o Filter Types: Butterworth, Bessel, Linkwitz Riley
  - o Slopes: 6 to 48dB/oct
- Compressor / Limiters
  - o Threshold: -20 to +20dBu
  - o Ratio: 1:40
  - o Attack: 0.3 to 100ms
  - o Release: 2 to 32X the attack time

**System Parameters**

- No. of Programs: 30
- Program Names: 12 character length
- Delay Units: ms, ft, m
- Security Locks: System

**PASSWORD** – The password of the ASP-MG24 is 4 characters in length. The user can change it via the PC application software. The factory default of a new unit does not require a password

**Option Graph Sub Screen Window** – In the top right corner of the window there is Option button. This window allows you to view multiple channels of filters. Graph viewing scale. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings

**Graph Sub Screen Window** – In the top right corner of the window there is option button. This window allows you to view multiple channels of filters. Graph viewing scale. The Reset button will set all filters back to factory settings. This Reset button only effects this screen settings

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*Specifications are subject to change without notice*



**Atlas  
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## Limited Warranty

All products manufactured by Atlas Sound are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of one year on all Atlas Sound products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. Atlas Sound will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to Atlas Sound do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLAS SOUND SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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## SERVICE

Should your PA601 amplifier require service, please contact the Atlas Sound warranty department at 1-877-689-8055, ext. 277 to obtain an RA number.

Atlas Sound Tech Support can be reached at 1-800-876-3333.

Visit our website at [www.AtlasSound.com](http://www.AtlasSound.com) to see other Atlas products.

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