



## MAGELLAN 350

ULTRA LIGHTWEIGHT 350 WATT BASS AMPLIFIER



### OWNER'S MANUAL

**PRODUCT DESCRIPTION** – The **MAGELLAN® 350** represents the latest generation in lightweight, high-output, versatile bass amplification. With our years of research, design and manufacturing expertise, we developed this model utilizing stringent design parameters for form, function, fit and finish. The result is a 350 watt professional high-powered tour-class bass guitar amplifier weighing only 3.5 lbs!

Our circuitry and mechanical designs within the **MAGELLAN® 350** deliver the most powerful, feature-laden, compact bass amplifier available in its class. This is exactly what players have come to expect from the **GENZLER®** design team -- performance, versatility and reliability. From natural, pristine, transparent reproduction of the bass instrument to classic, vintage harmonic textures, the **MG-350** provides the tonal pallet needed to cover all of the bassist's amplifier requirements. All of which is housed in an aircraft-grade, aluminum chassis with a sleek custom extruded front panel.

The **MAGELLAN® 350** is equipped with a 1/4" unbalanced instrument input, preamp stage clip detector, mute switch, preamp volume, dual curve CONTOUR network, 3 band active equalization with sweepable midrange frequency, master volume control, soft-clip power management circuitry, aux. input, balanced direct out with ground lift/pre-post/mic-line switches, head phone output, and 2 Neutrik NL-4 "Speak-On"™ speaker jacks.

The power amp is a robust, lightweight Class D design and is supported by a state-of-the-art high frequency switch-mode power supply (SMPS), which does away with the weight of a traditional power transformer. The **MAGELLAN'S®** power supply is an auto-sensing universal power supply usable from 100-240 volts, lending itself very well to international touring players.



## FRONT PANEL

**INPUT** – The **MAGELLAN® 350** is equipped with a standard ¼” unbalanced input. The input stage contains an FET input amp circuit with an input impedance of 1Meg ohms, a precision high order active high pass filter, and an “RFI” filter (radio frequency interference) to eliminate unwanted noise.

**MUTE SWITCH** – With this switch, you can place the amplifier (and DIRECT OUTPUT) in MUTE mode between sets or for silent tuning without having to change any of your amp settings. A red LED indicates when the amp is in MUTE mode.

**VOLUME** – This circuitry consists of a FET feedback type variable gain circuit that provides wide range, continuously variable gain for use with a wide range of instrument pick-ups and preamps. This control sets the volume level for the FET preamp. For exceptionally “hot” basses, you may want to run this control lower to keep the preamp from clipping and then increase the MASTER VOLUME to the desired output level.

**CLIP LED** -- This LED shows the operating status of the preamp and EQ stages. When this LED flashes, clipping of the preamp or EQ is occurring or about to occur. Adjusting the preamp VOLUME control down and MASTER VOLUME up may help to correct this condition.

**CONTOUR** -- Our unique CONTOUR circuit offers continuously variable control of 2 vastly different response curves. In either CURVE position when the SHAPE control is all the way off (CCW) the response curves are completely FLAT.

### Curve A (Blue)

Provides a variable pre-shaped curve that boosts lows and highs while simultaneously cutting Mids. The slopes are fairly gentle which keep the tone shaping very musical. This curve covers a wide range of sounds from flat to classic to modern depending on the position of the SHAPE control.

### Curve B (Amber)

Provides a variable pre-shaped curve with attenuated high mids and highs, a low mid bump, and a slight roll-off of the lowest bass frequencies. Again, the slopes are fairly gentle which keep the tone shaping very musical. This curve is intended to provide sounds in the range of vintage amps and vintage cabinets that do not have tweeters.

**ACTIVE EQUALIZATION** – The **MAGELLAN® 350** contains an active 3 band equalizer with a sweepable parametric mid-range frequency control. The mid-range filter is typically (but not always) used to reduce or remove offending frequencies in the instrument, speaker cabinet, or room response; or to boost response to achieve a particular voicing. Spend some time experimenting so that the process becomes creative as well as corrective.

<b>Bass</b>	+/- 15dB boost/cut shelving curve with a corner frequency of 75Hz
<b>Mid</b>	+/- 15dB boost/cut of the variable mid frequency selected
<b>Freq.</b>	Variable mid frequency from 150Hz-3kHz
<b>Treble</b>	+/- 15dB boost/cut shelving curve with a corner frequency of 6kHz

**MASTER VOLUME** – This control adjusts the overall volume of the amplifier. Typically, best results are obtained when this control is operated between the 9:00 and 3:00 positions.

## MASTER SECTION STATUS LED --

**BLUE** -- Indicates that the low voltage power supplies are active and that the amplifier is ON and ready to operate.

**RED** -- Indicates that the amp is in either “standby” or “protect” mode. The RED light will illuminate during power turn-on and turn-off to indicate “standby” mode. This is normal. It will also illuminate temporarily to indicate “protect” mode during any fault condition such as overheating or a short on the speaker outputs. If the MASTER LED does not eventually switch to BLUE but remains RED continuously, turn the amp off and consult a repair technician.



## REAR PANEL

**DIRECT OUTPUT** – An XLR balanced direct output is provided for connection to a PA system or directly into a recording studio console or A/D converter. The DIRECT OUTPUT signal may be switched between mic and line level, pre and post EQ, and the audio signal ground may be connected or lifted from pin 1 to eliminate hum due to ground loops. This output is fully protected against 48 volt phantom power and may be used for driving microphone lines of up to 300 feet without problems.

**AUX IN** – A 1/4" stereo line level auxiliary input is provided that sums directly to the main output bus controlled by the MASTER VOLUME control. This input is ideal for practicing with recorded tracks from a CD player, IPOD, or MP-3 player. This input is a tip-ring-sleeve type jack with built-in summing resistors that sum left and right signals when used with a stereo cable. This input will also work with a mono tip-sleeve plug. Adjust the level of the playback source to balance with the bass guitar's volume.

**PHONES** – A 1/4" TRS jack is provided for connection to headphones for silent practice use. A speaker load is not required. Do not connect this output to anything but headphones.

**POWER AMPLIFIER** – The **MAGELLAN® 350** uses a state of the art, class D power amplifier design and a high frequency auto-sensing universal switch-mode power supply (SMPS) to achieve unprecedented high performance and lightweight packaging. There are no Voltage Switches to change or jumpers to move. This SMPS senses the line voltage from 100-240 Volts and automatically configures itself. The correct detachable mains IEC power cable with the proper plug configuration for the voltage source and country of operation is required.

**FAN COOLING** – The chassis is cooled via a thermal sensing fan design. The fan is normally ON and will increase in speed as demand on the amp increases. **Do not obstruct the left or right chassis vents.**

**SPEAKER OUTPUTS** – The **MAGELLAN® 350** provides two Neutrik Speak-On™ connectors (wired 1+/1-). The speaker jacks are paralleled. The minimum speaker load is 2.67 ohms. **Do not ground either the “+” or the “-” outputs.**

**IMPEDANCE SELECTOR SWITCH** -- The design of the **MAGELLAN® 350** incorporates a robust power section along with exceptional thermal management allowing for operation down to 2.67 ohms. This gives greater versatility when connecting different speaker cabinet configurations. Set this switch as follows:

IMPEDANCE OPTIONS

- 4 / 8 OHM selection: 1 x 8 ohm cabinet, **OR** 2 x 8 ohm cabinets, **OR** 1 x 4 ohm cabinet.
- 2.67 OHM selection: 3 x 8 ohm cabinets, **OR** 1 x 8 ohm cabinet + 1 x 4 ohm cabinet.

**IMPORTANT** – The **IMPEDANCE SELECTOR SWITCH** position must match the total speaker impedance used.

**POWER INLET CONNECTOR AND POWER SWITCH** -- The **MAGELLAN® 350** utilizes a rear panel power switch and power inlet connector. Use the correct mains IEC power cord required for the country where the amp is to be used. The power supply auto-senses the correct voltage from 100V to 240 volts, 50 to 60 Hz for worldwide use.

NOTE -- There is no externally accessible AC mains (line) fuse. The internal fuse is integral to the SMPS power supply and is not user serviceable. This fuse will not fail except under very unlikely fault conditions to the SMPS. If this occurs a qualified service technician is required to correct the problem.



**MAGELLAN® 350/BA10 Combo**

The MG-350 amplifier is also available in a COMBO configuration -- mated with our Bass Array10-2 speaker cabinet.

Each cabinet is pre-drilled to accept the optional MG350-CRADLE. This “hidden” bracket attaches to the cabinet and holds the MG-350 in place with thumb screws.

The cabinet design features a slanted front baffle for better projection and a slanted top panel which allows the amplifier controls to be more easily accessed. The entire combo can be easily lifted with one hand, by the cabinet’s top/rear edge-lift handle.



## MG350-CRADLE

Attaches to the top of the BA10-2 bass cabinet using the pre-drilled mounting screws installed in every cabinet. This allows for the attachment of the MG-350 amplifier. Each CRADLE comes with two thumb screws and a short Speakon® cable. The MG-350 and CRADLE can also be attached to other cabinets using regular wood screws.



## MG350-COMBO-BAG

A heavy-duty, thick-padded carry bag is offered to easily transport the MG350/BA10 combo in full protection from the elements and abuses of gigging. The bag includes a front zippered pocket and a detachable cushioned shoulder strap.

## SPECIFICATIONS

### MAGELLAN® 350 AMPLIFIER

Rated Power: 175W/8ohms; 350W/4ohms; 350W/2.67 ohms.

Minimum Impedance: 2.67 ohms

Dimensions: 2.63"H X 9"W X 9.83"D (67mm H x 228.6mm W x 249.8mm D)

Weight: 3.5 LBS (1.75Kg)

### MAGELLAN® 350/BA10 COMBO

Rated Power: 175W/8 ohms; 350W/4 ohms; 350W/2.67 ohms.

Combo Impedance: 8 ohms

Dimensions: 16"H x 15.5"W x 15"D

Weight: 25 LBS (11.3 Kg)

Product Type:	Audio Amplifier
Product Name:	<b>MAGELLAN® 350</b>
Model Number:	MG-350 (all versions)
Operating Power Condition:	100~240V, 50/60 Hz
Effective Date:	12/15/2016

### **SAFE OPERATING REQUIREMENTS:**

- Never set an amplifier on anything that will tip over or collapse under its weight.
- Provide a minimum distance of 1 inch (25.4mm) around all sides of the amplifier for sufficient ventilation. The ventilation should not be impeded by covering the amplifier's vent openings with items such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the **MAGELLAN® 350** amplifier.
- This amplifier should not be exposed to dripping or splashing and no objects filled with liquids, such as vases or drinks, should be placed on this product.
- To clean the aluminum chassis, unplug the amplifier and use only a damp cloth with some mild glass cleaner applied.
- The **MAGELLAN® 350** amplifier should be connected to a mains outlet (power receptacle) with a protective earth (ground) connection at all times.
- The amplifier's mains plug (power plug) is considered the disconnect device and the connection must remain accessible at all times.
- This amplifier is capable of producing sound pressure levels that may cause hearing loss.
- There are no user serviceable parts and hazardous operating voltages are present inside this unit. Always consult a qualified repair facility for service.

### **WARNING!**

- The use and operation of this device constitutes an agreement of full release of any and all liability connected with its use. Only persons familiar with the operation of high-powered professional audio equipment should attempt to operate this device.
- In addition, by use of this device, the user agrees to hold **GENZLER® AMPLIFICATION** and its designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage, or loss resulting from such use.
- Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal operating conditions for a period of 3 years.

### **WARRANTY:**

- **GENZLER® AMPLIFICATION** warrants the model **MAGELLAN® 350** to be free from defects in materials and workmanship for a period of 3 years from the date of purchase, when purchased from an authorized **GENZLER® AMPLIFICATION** dealer.
- This warranty does not cover normal wear and tear incurred from the normal designed use of the product.
- This warranty is effective only if a copy of the original sales receipt is presented at the time of warranty service.
- All warranty service must be performed by a **GENZLER® AMPLIFICATION** authorized service center.
- Before returning any unit for service, a returned merchandise authorization number (RMA#) must be obtained by emailing [support@genzleramps.com](mailto:support@genzleramps.com).
- This warranty is valid in the US & Canada only. For all products sold outside the USA, warranty is handled through our international dealer or distributor for each country. All warranty registration should be completed on our website. For complete warranty information visit: [www.GENZLERAMPLIFICATION.com](http://www.GENZLERAMPLIFICATION.com).

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Form: MG350-OM-REV1