



# DVY<sup>TM</sup>

## MARK

Guitar at its Best!

AH  
250

Owner's Manual



## A Word from Marco De Virgiliis

Thank you for choosing the **DV AC 101 combo**.

When I began to develop the concept of the Acoustic line in Italy several years ago, I had one objective in mind: to produce top quality acoustic amps that would meet the needs of professional musicians everywhere.

I wanted my amps to be compact and lightweight and thanks to modern technology and the availability of high-quality components like digital power supplies, neodymium speakers and so on, I was able to accomplish this.

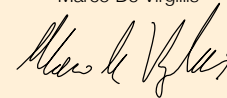
Impressive musical clarity, tonal flexibility and satisfying bottom end are the reasons why many acoustic musicians choose the Markacoustic AC 101. As for its predecessor, the new updated version **DV AC 101** is designed specifically to not color the sound, but to faithfully reproduce the unique tonal qualities of whatever instrument is played through it.

It includes 48V phantom power, feedback control and phase reverse, adding a new hi-performance compression driver, pre/post EQ switch for the XLR DI, FX send/return, tuner out and a next generation of digital reverb and chorus that are sweet-sounding, warm and natural.

We hope you will enjoy your new acoustic amp, and we invite you to contact us any time with your comments and questions at [info@dvmark.it](mailto:info@dvmark.it)

Thanks again, and good music!

Marco De Virgiliis



# FRONT PANEL

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- 1) INPUT CH1** Connect your acoustic instrument to this input using a standard ¼" shielded instrument cable.
- 2) CH1 GAIN** This controls how much signal is passed through the CH1 preamp stage of the unit, which includes equalization and the effects loop.
- 3) CH1 CLIP LED** If playing through the amp causes the blue CLIP light to turn on at all, you should turn down the GAIN control to set the optimal gain level for your instrument's signal.
- 4) CH1 LOW** This knob controls the amount of low frequencies in your sound, boosts or cuts the level of the frequencies around 40 Hz ( $\pm 16$  dB).
- 5) CH1 MID** This knob controls the level of mid frequencies, boosts or cuts the level of the frequencies around 600 Hz ( $\pm 16$  dB).
- 6) CH1 HIGH** This knob controls the level of high frequencies, boosts or cuts the level of the frequencies around 6 KHz ( $\pm 16$  dB).
- 7) CH1 EFFECT MIX** Controls the amount of effect in the channel 1.
- 8) EFFECTS** The DV AC101 features last generation of digital reverb and chorus effects, they are sweet-sounding, warm and natural. The selected effect is common for CH1 and CH2, thanks to the separate Effect MIX (7-15) you can regulate the amount of effect for each channel.
- 9) PHASE SWITCH** The Phase switch flips the polarity of your instrument signal from positive to negative, changing its relationship to the sound coming from the amplifier. Use the Phase switch in conjunction with the Anti-Feedback control knob to eliminate acoustic feedback.
- 10) ANTIFEEDBACK** The Antifeedback knob control is a variable frequency notch filter designed to isolate and eliminate feedback. Turning the knob adjusts the center frequency of the filter, ranging from 20Hz (off) to 400Hz at full clockwise.
- 11) INPUT CH2** This input accepts either a balanced XLR signal (for microphone or in case your instrument's pickup supplies a balanced output) or an unbalanced signal using a standard ¼" shielded instrument cable.
- 12) GAIN CH2** This controls how much signal is passed through the CH2 preamp stage of the unit, which includes equalization and the effects loop. In case of condenser microphone or pickup system with phantom power, pull out the CH2 GAIN knob to engage 48V phantom power on balanced XLR input.
- 13) CH2 CLIP LED** If playing through the amp causes the blue CLIP light to turn on at all, you should turn down the GAIN control to set the optimal gain level for your instrument's signal.

**14) CH2 LOW** This knob controls the amount of low frequencies in your sound, boosts or cuts the level of the frequencies around 60 Hz ( $\pm 16$  dB).

**15) CH2 HIGH** This knob controls the level of mid frequencies, boosts or cuts the level of the frequencies around 5 kHz ( $\pm 16$  dB).

**16) VPF** The VPF (Variable Preshape Filter) knob boosts lows and highs, and cuts mids around 380 Hz. It's very effective for strumming and finger picking techniques, and/or to cut mid and enhance low and high to the voice tone using a microphone connected to the XLR input of CH2.

**17) CH2 EFFECT MIX** Controls the amount of effect in the channel 2.

**18) LINE OUT** This knob controls the level of the signal from the XLR LINE OUT (29) to the mixing console in live or studio applications.

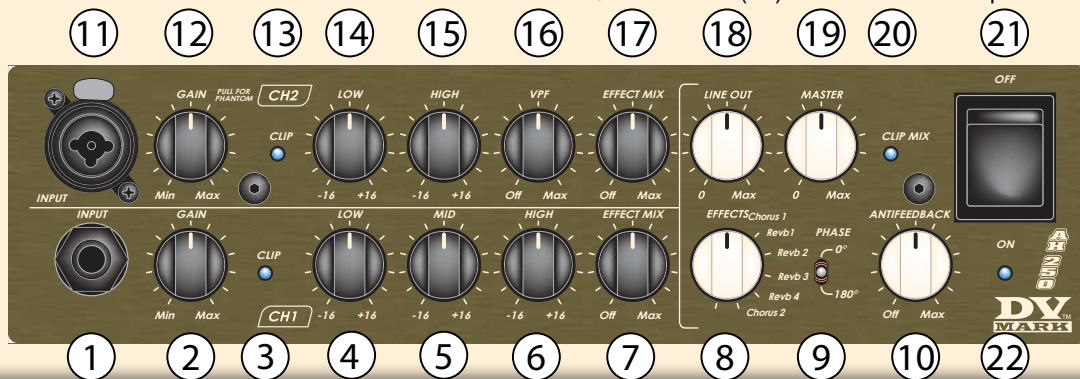
**19) MASTER** This control is the master feed from the end of the two preamp channels to the power stage section.

**20) MIX CLIP LED** If the MIX CLIP light to turn on at all, you'd turn down the EFFECT MIX level control to set the optimal effect level avoiding its clip

**21) MAIN ON/OFF SWITCH** This switch delivers AC power to the amp. Make sure the unit is grounded; all three terminals of the AC power plug must be connected to avoid any injury to the user or damage to the unit.

DV Mark amps and combos are manufactured to be used in the country where they have been sold, and are factory preset to that country's voltage. So make sure you're sending the correct voltage to your amp before you connect it to AC power

**22) ON LED** A blue indicator LED is illuminated whenever the main on/off switch (19) is on and the amplifier is receiving power



# REAR PANEL

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**23) AC POWER SOCKET** Make sure the unit is grounded; all three terminals of the AC power plug must be connected to avoid any injury to the user or damage to the unit.

**WARNING:** The DV AC 101 is manufactured to be used in the country where they have been sold, and it is factory preset to that country's voltage. So make sure you're sending the correct voltage to your amp before you connect it to AC power.

**24-25) SPEAKER OUTS** The DV AC 101 combo head features two speaker outputs, the high-quality SPEAKON COMBO output is connected by default to the internal speaker, may you like to use a SPEAKON speaker cable to connect an 8ohm extension cabinet you can disconnect the cable from internal speaker from the SPEAKON COMBO output and connect it to the JACK output.

The amp delivers 150W of power @ 4 ohm, or 250W @ 8 ohm (adding a 8ohm extension cabinet), speaker outputs are in parallel and minimum impedance load for the amp is 4 ohm.

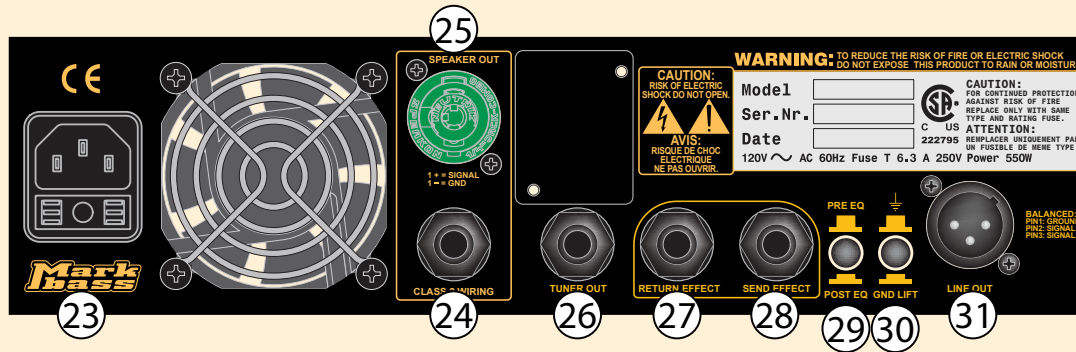
**26) TUNER OUT** Is an unbalanced signal that can be sent to a tuner, allowing you to tune as you play without passing your signal through pedals, which can degrade the quality of your signal. You can also use this output to send your signal on to another amp, or any kind of recording unit that doesn't require a balanced signal.

**27-28) SEND/RETURN** If you use effect pedals or rack gear, you can route them through the SEND EFFECT (26) and RETURN EFFECT (25). The effects loop is wired in parallel.

**29) PRE/POST SWITCH** It determines whether the signal that leaves the LINE OUT XLR (29) is affected by your amplifier's EQ settings or not. In most cases, you will find that sound engineers prefer to receive a pre-EQ signal. Note that the line out signal includes whatever effects you've connected through the effects loop.

**30) GROUND LIFT SWITCH** Occasionally when you're playing live and using the LINE OUT XLR (29), the soundman will detect a hum from your amp's signal. This is almost always due to a grounding problem related to your power source; you will likely eliminate this hum simply by flipping the GROUND LIFT switch.

**31) LINE OUT** The balanced XLR output allows you to connect your amplifier directly to a mixing console (either in live situations or in a recording studio) without the need of a DI box. Simply connect a standard XLR cable from this output to the soundboard/mixing console, or a snake connected to the board/console.



# TECHNICAL SPECS

**INPUTS:CHANNEL 1** Imp. 500 Kohm / max Vpp: 30  
**CHANNEL 2** Imp. 500 Kohm / max Vpp: 30  
**BALANCED CH2** Imp. 500 Kohm / max Vpp: 30  
**RETURN** Imp. 33 Kohm / Max 10Vpp

**CONTROLS CH1:GAIN** -45dB ÷ 28 dB  
**EFFECT MIX** Internal Effect only  
**EQUALIZER** LOW: Level ±16 dB (40 Hz)  
MID: Level ±16 dB (600Hz)  
HIGH: Level ±16 dB min (6 KHz)  
**CONTROLS CH2:GAIN** -43dB ÷ 26 dB  
**PHANTOM** 48VDC  
**EFFECT MIX** Internal Effect only  
**EQUALIZER** VPF: Center Freq. (380 Hz=  
LOW: Level ±16 dB (60 Hz)  
HIGH: Level ±16 dB min @ (5 KHz)

**OTHER CONTROLS:** **PHASE** 0°, 180°  
**ANTIFEEDBACK** 20Hz (off), 400 Hz

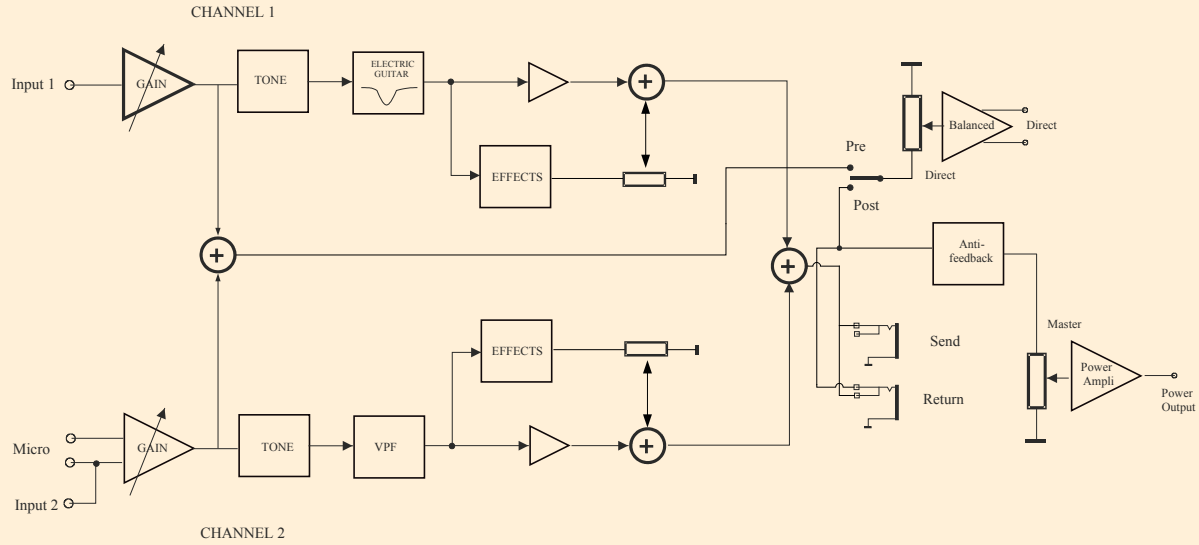
**OUTPUTS** **SEND** unbalanced, Max Voltage 20Vpp (Pre Eq)  
**TUNER OUT** unbalanced, Max Voltage 2Vpp  
**SEND MIX** balanced, Max Output: 20 Vpp  
**POWER OUT** 150W/8 ohm - 250W/4 ohm  
**SUPPLY** 100/120V/230V/240V 50/60Hz  
(Version set inside the equipment)

**Effects Description**  
1) Chorus + Reverb  
2) Hall – Reverb time Medium High  
3) Hall – Reverb time Medium  
4) Room – Reverb time Medium High  
5) Room – Reverb time Medium  
6) Chorus

**SPEAKER** 1x10"  
**TWEETER** 1" HF compression driver  
**BASS PORT** rear  
**IMPEDANCE** 8 ohms  
**SENSITIVITY** 101 dB SPL  
**SPEAKER POWER HANDLING** 200W RMS (AES Standard)  
**AMP OUTPUT POWER** (analog) 250W @ 4 ohm / 150W @ 8 ohm  
**FREQUENCY RESPONSE** 45 Hz to 20 kHz  
**CROSSOVER FREQUENCY** 3.5 kHz



# BLOCK DIAGRAM



# NOTES

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Product specifications are subject to change without notice

# DV<sup>TM</sup> MARK

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**Mark  
Bass**<sup>TM</sup>  
www.markbass.it



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