

REDSEVEN

AMPLIFICATION

D100PRE



model: D100PRE

User Manual

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INTRODUCTION

D100PRE is a three channels guitar all tube based preamplifier. Thought as ultimate tone weapon, featuring rich clean crispy sound, a tridimensional multi stage overdriven channel and a third "over the top" modern gain lead channel.

Full MIDI implementation (CC and PC), tube based gain and volume boosts makes your life as guitarist easier than ever before.

Additional info and audio/video demos can be found at www.redseven-amplification.com or you can contact us any time at info@redseven-amplification.com

POWER SUPPLY

D100PRE is shipped with multi tap IEC socket, and input voltage can be choose between 100-120-230 and 240VAC.

You must need a flat screwdriver to open IEC socket and rotate internal selector. It's very important you do this with power cord NOT CONNECTED to IEC socket, and with D100PRE rack totally closed, since there's not need to open the case.

If you're not sure of what you're doing, please bring it to a qualified person, you're messing with potentially lethal voltages, who can hurt you and D100PRE.

NOTE: IMPORTANT...NOT TO DO!

- This preamplifier is powered by potentially death voltages. It's very dangerous to power it during any inspections or just to open top case. We highly suggest you to not even plug power cord if you're going to perform a maintenance.
- Keep D100PRE away from water or any liquid.
- Keep D100PRE in a controlled temperature and humidity place.
- Keep 100PRE away from children, animals or people who do not understand the potentiality of wrong usage of this object.

THESE OPERATIONS CAN LEAD TO FINAL BREAK OF THIS AMPLIFIER. IN THESE PARTICULAR CASES REDSEVEN AMPLIFICATION WILL NO BE RESPONSIBLE FOR DAMAGES TO AMPLIFIER ITSELF OR PEOPLE/THINGS/ANIMAL. PLEASE KEEP IN MIND YOU ARE HANDLING A DEVICE WITH POTENTIALLY LETHAL VOLTAGE. PLEASE CAREFULLY READ THIS MANUAL BEFORE TURING ON THE AMPLIFIER. RED SEVEN AMPLIFICATION ARE NOT RESPONSABLE FOR ANY PARTS SUBJECT TO WEAR (LIKE TUBES, POTS, CAPACITORS, ETC).

WARNING!!

This preamplifier uses potential lethal voltage, it must be inspected only by expert people!

WARNING!!

Before insert power cord inside D100PRE, check the voltage plate under IEC socket and be sure to match your country's wall voltage.

PREMISE

D100PRE is based and it's the natural evolution of our flagship amplifier, Duality100. With the idea of 1:1 porting of preamplifier section into a standard 2U rack case, we took the time to develop some new ideas and concepts, by keeping Duality series signature sound intact and unmodified.

As any guitar preamplifier in the world, also D100PRE is needed of a power amplifier, so take this into account.

We developed D100PRE using D100 power amplifier section, to be 100% faithful to the legacy, but of course it can be used with any PA available, with any sort of tubes, or solid state too.

VERSIONS

D100PRE can be ordered in "Standard" and "RS (Red Stealth) version, as our Duality series.

- Standard version is the original Duality sound, EL34 based and optimized for this type of tubes.
- RS (Red Stealth) version is a modified version of the original sound, featuring an overall higher saturation level and a tad brighter and aggressive sound, only in dirty channels. Clean channel still remains the same on both version. This mod was specifically designed to be run with 6L6s tubes.

SOUND DESCRIPTION

- **CH1 (Clean channel)** is something between an old '50s Fender and late '60 Marshall SL Plexi. Sparkly, rich, 3D clean sound, something hard to find in today's modern multichannel amps. It can crunch with aggressive pickups but it's almost clean with any guitar below gain set at 4. Tonestack is way more effective than the vintage '50/'60 mono channel amplifiers, you can obtain quite a lot different sounds from this channel. Bright switch also adds some flexibility to it.
- **CH2 (VINTAGE):** Vintage channel is where you probably want to spend most of your time and also our signature sound. Gain can be set from a crunchy Marshall-esque type tone (think of early AC/DC) to '80s VH. Not a super huge gain quantity and no over-saturated gain in the low end. With guitar's volume control you can still have a very good clean sound, even with gain dimed. With "LEAD" mode engaged you are in late hard rock '80s territory. Quite a lot of gain available now, consistent bass response, dynamics is always at maximum. Eq is shared with MODERN channel and it's way more effective than your usual eq and probably a bit different.
- **CH3 (MODERN):** The Modern channel starts where the Vintage channel ends but with a little more gain and bass frequencies on top. This is a lot tighter, gainy, compressed and saturated sounds than the previous channel. It has right amount of gain to play solos even without using "LEAD" mode. Engaging "LEAD" mode you'll have a huge quantity of gain, you can be ready for any hard rock / classic metal tones.

IMPORTANT NOTE: while VINTAGE and MODERN channel shares same eq controls they are two completely separated channels. This allows us to have two different flavors of same sound. Pure magic.

TECHNICAL FEATURES

FRONT PANEL:



Top row (from left to right)

- **CHANNEL 1** (clean channel): Gain, Bass, Middle, Treble, Volume controls.
- **SOLO BOOST**: Level (0 is unity gain), Bite (top end), Focus (bottom end)

Bottom row (from left to right):

- **FRONT INPUT JACK**: plug your guitar here (parallel to rear input: use one input only at same time)
- **CHANNEL 2** (vintage channel): Gain Vintage, Volume Vintage & Treble, Middle, Bass shared with CH 3.
- **CHANNEL 3** (modern channel): Gain Modern, Volume Modern & Treble, Middle, Bass shared with CH 2.

PUSHBUTTONS:

- **CLEAN:** activates clean channel;
- **VINTAGE:** activates vintage channel;
- **MODERN:** activates modern channel;
- **LEAD:** activates lead boost on both vintage and modern channels;
- **BRIGHT:** activates bright cap, different value for each channel;
- **SOLO:** activates solo boost (it works in each channel);
- **BT:** activation for internal Bluetooth receiver. Used for remote channel switching (to be developed);
- **STORE:** store button, to save sound combinations inside D100PRE memory.

REAR PANEL

(from left to right)

- **IEC SOCKET:** connect your power cable here.
- **HT FUSE:** (1A slo blow) high current fuse. Replace **ONLY** with same type.
- **MIDI IN & MIDI THRU:** sockets for midi communications. Midi IN receive midi signal, Midi THRU left midi signal pass thru without modify original messages.
- **OUTPUT (+4dB):** Preamplifier main output.
- **OUTPUT (-10dB):** Preamplifier attenuated output. Very useful in case you want to use instrument level pedals avoiding clipping.
- **REAR INPUT JACK:** plug your guitar here (parallel to front input: use one input only at same time)

FIRST USAGE

Before plugging in the power cord, make sure to check input voltage of D100PRE and be sure to match it with your wall voltage. Then insert power chord.

Now you are ready to put the front power switch in "1 (ON)" position. Give tubes at least thirty seconds to warm up. Plug your signal cable into input jack then you are ready to rock!

CHANNEL SWITCHES

Switches for Ch1, 2 and 3 or Clean, Vintage and Modern channels.

LEAD BOOST

As its big brother Duality 100, D100PRE featured a tube based gain boost for CH2 and CH3. This boost basically adds a gain stage somewhere in the signal path by not afflicting your overall volume. Very useful if you're looking for an "hot rod" version of current channel you're using.

Lead boost do not apply to CH1 (clean channel)

BRIGHT CAP

For the first time ever, bright cap is now remotely activable in one of our amplifiers. You could now have choice of a darker/brighter version of the same sound.

Remote bright cap applies to all three channels (Clean, Vintage and Modern).

SOLO BOOST

Another big first time in a RedSeven amplifier, SOLO boost! It acts in the opposite way to LEAD boost, by only increasing volume and not gain. Perfect for solos or just to have a second step of volume, no matter in which channel you are in (yes, it acts on all three channels).

Thanks to added eq section of SOLO boost, it can be used in couple modes:

1. Volume boost (with level > 0). It adds volume up to +15db for your solo parts. Add or subtract highs and lows, if you need it. In flat position (center) it's flat.

2. Main EQ. (with level = 0). SOLO boost can be used also as global eq or in guitar words terms, like a global “presence” and “depth” controls. These controls of course do not act exactly like presence/depth controls like in a full amplifier (we do not have any power amp here), but you could think at them like them. Fine tune your poweamp or guitar!

BLUETOOTH

Bluetooth chip is present inside D100PRE, for future development. Thought as an extension for possible mobile apps for managing sounds. In can only be turn on/off. At current release, it's not doing anything.

MIDI

D100PRE, despite the full tube audio signal path, is equipped with digital memory and can save combinations (presets) of functions inside D100PRE.

D100PRE is shipped on midi channel #1. You can't change midi channel on the fly after bought it, but you can ask for a different midi channel at order time.

All functions are recallable on the fly via midi CC. This is the full CC list:

- Clean channel: CC #100
- Vintage Channel: CC #101
- Modern Channel: CC#102
- Lead Boost: CC#103
- Bright: CC#104
- Solo Boost: CC#105

All CCs can be changed with custom numbers, but only at order time.

SAVING A PRESET

Saving a preset is quite easy with D100PRE, it takes only few steps:

- Choose the desired combination of functions (channel, loop, solo, etc);
- Keep "STORE" button pressed for three seconds, until corresponding led turn on, than release it;
- By using a MIDI devices able to send Program Change, send the desired PC you want to memorize this particular combination;
- Store led will blink couple time for confirmation;
- Your preset is now created.

You can save and re-save a preset infinite time. With this procedure you can use different midi pedalboards or interface for recall preset without losing data, because all presets are stored inside the amp. You only need to send the exact PC and it will recall the same combination of functions every time forever.

You can exit the saving routing in anytime by pressing "STORE" switch three seconds until the corresponding led turn off.

OUTPUTS

There're two outputs on D100PRE's back panel. Your "to go" output is the one named "+4dB output", and it's the direct output from last tube of D100PRE. It's a full line level output signal, with enough headroom to drive any external line level effect processor or any power amplifier.

The alternative one, is named "-10db output" and it's an attenuate output to be use only if you'd like to place instrument level pedals AFTER preamp and to avoid clipping. While we highly discourage to do this, we thought this safe exit for you. Missing volume from D100PRE must be recovered from power amp.

IEC SOCKET

We wanted D100PRE to be a valid a choice for world travelling professional guitarists. Main IEC power socket has a special voltage selector, to easily change input voltage, from 100-120-230 to 240VAC, without opening rack case nor the use of a solder machine.

While this is an easier procedure than de-soldering and soldering wires, opening the case, etc, it can still partially dangerous.

We highly recommend the help of a medium flat screwdriver for this operation AND a proper tech if you're not 100% sure of what you're doing.

Procedure is self-explicatory, you just need to remove voltage selection from little window under IEC power socket, take out voltage selector and put it back in place on setting (voltage) you desire. It's done.

TROUBLESHOOTING

- D100PRE IS NOT TURNING ON
Check the power cord, sometimes it will be loose and cannot make good contact with IEC socket. Replace it. If this doesn't work check MAIN fuse, if it's blown replace with SAME type and try again to turn on again. If fuse continue to blown, turn off the amp and contact RedSeven Amplificaton.
- D100PRE IS TURNING ON (RED LIGHT IS ON) BUT WITH NO SOUND
Be sure you turned on you power amplifier;
Be sure to connect D100PRE to you power amplifier;
Be sure to connect speaker cable properly, both power amplifier and cabinet. Check the input signal from guitar too. If this doesn't work check HT fuse, if it's blown replace with SAME type and try again to turn on again. If fuse continue to blown, turn off the amp and contact RedSeven Amplificaton.
- D100PRE IS MAKE NO SOUND
If everything works properly be sure to have selected channel volume not at 0.
- I'M NOT ABLE TO SAVE A PRESET
Read "SAVING A PRESET" chapter and do meticulously what it's wrote. You have to follow any step and not swap them. Check midi cable and try to replace it. Be sure to connect your sending devices via MIDI OUT socket and D100PRE MIDI in socket and not vice-versa.
If for some reason this doesn't work contact RedSeven Amplificaton.
- I'M NOT ABLE TO RECALL A PRESET
Be sure to set up your midi board or midi interface on midi channel 1. Any other channel will not work and you will not able to recall a preset. Check midi cable and try to replace it. Be sure to connect your sending devices via MIDI OUT socket and D100PRE MIDI in socket and not vice-versa.

For any problem and in any moment you can contact a qualified tech at:
info@redseven-amplification.com
We will replay to you as soon as possible.

WARRANTY DESCLAMER

Please, do not try to open this preamplifier in any case. For any problem contact your seller or write to us. This amplifier runs at very high voltage that can lead to death. Any inexpert person should not even think of do anything inside this amplifier. RedSeven Amplification offer a standard two year fully warranty for any component (except to wear subjects).

Revision 1.0
January 2022