The DHA VT3-Twin-EQ-Bass-RM
"Custom Shop"

Thank you for purchasing the DHA VT3-Twin-EQ-Bass-RM overdrive and distortion effects 1U rack, we are sure you will be very happy with it. The VT3-Twin-EQ-Bass-RM uses three 12AX7 (ECC83) valves to generate classic pure valve tones. There are two separate selectable channels Red or Blue with separate 3 band active EQ on each. The VT3-Twin-EQ-Bass-RM is capable of producing a very wide range of gains to suit all types of playing. It is intended to be used in front of a valve amplifier, but will also work well with solid state amps or even recording set ups acting as a valve pre-amp. The third valve is used in the valve driven FX loop.

The VT3-Twin-EQ-Bass-RM has a built-in voltage doubler circuits; this generates 24V from the existing 12V power supply. The 24V is used to supply the anodes or plates of the valves.

The VT3-Twin-EQ-Bass-RM is fitted with 2.1mm external PSU adaptor for use with a 12v @1200mA external supply. The user should use a well regulated external supply as the better the regulation then the less the hum when at higher gain levels. If you find there is a lot of hum at high gains then the problem will be the supply is not well regulated. I have found that Switchmode supplies work well and these are standard for higher current types, so it is likely that any 12V supply over 1.25A will be a switchmode. The inner of the connector is the positive, there is reverse polarity protection so no harm will be done if you get it wrong.

Blue channel – This channel is clean to crunch using both stages of the first valve. The circuit is the same as our VT1-EQ-Bass-Drive. There common I/P pad control between the Red and Blue channels as well as the main DI out and Headphones. The Blue channel controls are I/P pad, Gain, Level, Treble, Middle, Bass pot plus a Bright and Boost switch. When the Blue channel is selected via the Red or Blue foot switch or front panel then the blue led will light. Please note that when the footswitch is connected then the front panel switch should be set to Blue.

Red channel - This channel is clean to overdrive using a shared first stage of one valve and both stages of the second valve giving 3 valve stages in all. The Red channel controls are I/P pad, Gain, Overdrive, Level, Treble, Middle, Bass pot plus a Bright and Boost switch. When the Red channel is select via the Red or Blue foot switch or front panel then the red led will light.

Red or Blue Level sets the output level of the effect to your amplifier, there is a lot of gain generated by the valves and selectable op-amp generated boost and this will overdrive the input of your guitar amplifier with ease.

Red or Blue Gain sets the level into the second stage of the valve on the selected channel and hence the level of gain. Use your volume control on your guitar to control the gain on the first stage of the valve, you will find that the VT3-Twin-EQ-Bass-RM responses very well to this and you can control the break-up distortion like this.

Red Overdrive sets the level into the second stage of the valve on the Red channel and hence the level of Overdrive on that channel.

Each channel has its own active 3-band EQ which cuts and boosts around 15dB in each band, so the 12o'clock position is a flat response.

Each channel has its own Bright and Boost switches. Bright increases the treble response and Boost switches in a clean Op-Amp boost to the signal.

The I/P pad is useful when using high output or active pickups or when using the effect in a line level loop. The I/P Pad control is common to both channels.

The XLR connectors on the back provide balanced DIs out for recording and low noise feeds to the desk or amp. There is a 3 position ground switch with each DI out with ground, float and ploat positions which are useful should a ground loop hum occur. There is DI level pot for each DI out. There are separate DI's for main out, red and blue channels, there is also a separate $\frac{1}{4}$" jack line out for out of these outputs.

There is a tuner mute and tuner jack feature which is selected via the front panel or the footswitch. Please note the front panel switch must be off in order to use the footswitch.

The valve driven FX loop has a send and return jack plus a blend control on the back panel.

The by-pass switch on the front panel and on the footswitch provides a by-pass of the red and blue channels but the main DI and the headphones remain on. The by-pass switch on the front panel must be in the off position if the footswitch is to be used.

The Headphone out socket is for quiet practice. There is Headphone level pot which is common to both channels and it and the Headphone output act upon the selected channel or by-passed signal. There is some background hiss on the headphone out socket and hence it is not intended as a line out.

The stereo Line in socket routes the line in signal to the headphones so that you can play along to CD's, MP3's, iPods, etc.

So, just plug your bass into the in jack on the back or the front your amplifier into the main out jack and you are off and running!

Your unit is covered for any parts and labour required to repair it should it go wrong within 12mths of purchase. This does not cover misuse of the product but we will be happy to repair this at cost as we will for any units which fail outside of the 12mths. The owner of a faulty pedal will pay all the postage costs. Here at DHA we take a great pride in all our effects and amplifiers and we welcome comments from our customers at davehallamps@aol.com

Once again we thank you for your purchase and we wish you luck and lots of fun with your music.

Best regards
Dave Hall Amps