

Designed by T-REX Denmark, 2017



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8
BALL
DUAL-OCTAVE



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By **T-REX Engineering** - Denmark

CONGRATULATIONS

On your purchase of the T-Rex 8-ball pedal!

Delivering 2 channels of polyphonic octave generation, you can foot-switch between two separate blends of dry signal, low octave and high octave.

For instance, you may want to add a little high octave “shimmer” to lead lines and use plenty of low octave for powerful riffing. Or maybe your music demands two levels of octave generation – a little and a lot. The 8-ball allows you to set up each channel for the exact amount of octave signal(s) and you can then easily go from one to the other.

The 8-ball uses a polyphonic, fast tracking DSP engine to generate the octave signals but your dry, unaffected signal remains analog and is buffered when the pedal is bypassed.

CONNECTIONS

Input: Connect your instrument or signal source to this jack

Output: Connect the amplifier or receiving unit to this jack

DC inlet: Connect a power supply unit to this jack (9/12 VDC, center negative, 130 mA min.)

Controls:

Mix : Controls the mix of the dry signal vs. the two octave signals. Turn this clockwise for more overall octave volume and less dry signal. Turn this counter clockwise for less octave and more dry signal.

Lo A : Controls the level of the low octave for ch. A

Hi A : Controls the level of the high octave for ch. A

Lo B : Controls the level of the low octave for ch. B

Hi B : Controls the level of the high octave for ch. B

HOW TO USE THE 8 BALL

Start by setting the mix knob to noon. This will give each octave roughly the same volume as your dry signal when the controls are set to maximum. You can then adjust the octave controls to taste for each channel.

If you need more volume from one or more of the octave signals, turn the mix knob up. This will bump up the octave volumes and attenuate the dry signal at the same time, thereby keeping the overall output more or less the same.

The trick is to play around with the levels by finding a good starting point on the mix knob, then tweak each octave level to taste and compensate on the mix knob, if needed.

Note: Although the algorithm is very precise and polyphonic, a signal coming from an electric guitar/bass contains a lot more frequency

content than just the fundamental note which can create unwanted pitch shift artifacts. Overtones, subharmonics and pitch variations when playing chords will affect how “clean” the pitch shifting is. If you hear strange artifacts when playing chords or a harsh sound when feeding an overdriven/distorted signal to the pedal, it’s simply because the pedal pitch shifts every frequency present in the signal. Hence, the cleaner this signal is (frequency-wise and distortion-wise), the cleaner the pitch shifting will be.

We recommend connecting the 8-ball directly to the instrument, or as close as possible. This will make the effect more natural and pleasing to the ear. Play simple chords or single note lines for best results.

TECHNICAL SPECS

Input impedance	500 K Ohm
Output impedance	1 K Ohm
Power supply	9/12 VDC · 2,1 mm barrel plug · ⊕ ⊖ ⊖
Current draw @ 9 VDC	130 mA
Max. input signal Vp-p	5.5 Vp-p
Battery type / Battery life	9 V battery / 1-3 hours (Alkaline)
External connectors	Input jack, Output jack, 9 VDC jack
Controls	On/Off, Mix, Hi oct A, Hi oct B, Lo oct A, Lo oct B, A/B Switch
Pedal size incl. knobs (W x H x D)	100 x 55 x 120 mm / 3.9 x 2.2 x 4.7 in
Weight (excl. battery & packaging)	0,315 kg / 11.1 oz

T-Rex warranty conditions

T-Rex offers a 2-year warranty on all our products. In the unlikely event of a malfunction, please contact our technical support at service@t-rex-effects.com before sending us the product for repair. Read more about warranty conditions at www.t-rex-effects.com/service

About T-Rex

Based in Vejle, Denmark, T-Rex Engineering makes classic and signature effects pedals for the world's best musicians. Our approach blends hi-tech innovation with old-world craftsmanship – always in the service of killer tone.

EU regulations • Environment protection

T-Rex accepts and follows the regulations and directives issued by the EU. We find these environment protecting regulations very good, and we are happy to follow them.



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