



**MICROTUBES B7K ULTRA v2**  
USER MANUAL

## **Darkglass Suite**

Download the free Darkglass Suite software from [www.darkglass.com/suite](http://www.darkglass.com/suite) to configure the pedal, load new impulses and download firmware updates.

Darkglass Suite comes with a selection of cabinet IRs made by some of our artists. It also allows you to load your own IRs in WAV and AIFF formats and organize your IR files. See the online manual of Darkglass Suite for more information.

## **Disclaimer**

In the interest of continuous improvement, specifications are subject to change without notice. If you have any questions, please don't hesitate to contact us at [www.darkglass.com](http://www.darkglass.com)

The manufacturer claims that the above product fulfills the requirements as set by EN55013, EN55020, EN60555-2, EN60555-3, RoHS, WEEE.

# Microtubes B7K Ultra v2

Absolute Control.

The new version of the Microtubes B7K Ultra features all the versatility and sonic possibilities of the first version plus: (1) Single user loadable cabinet simulation impulse response. (2) Micro-USB B port to connect to PC/Mac to load a different Virtual Cabinet through the Darkglass Suite. (3) 3.5mm headphone output with cabinet simulation. (4) Balanced XLR output with switchable cabinet simulation.

## Warning

The Microtubes B7K Ultra v2 has a current draw of 30mA. Only use a regulated 9V DC adapter with a center-negative plug. Due to ecological reasons it does not accept batteries. Unregulated power supplies and/or higher voltages may result in suboptimal noise performance and even damage your unit, voiding the warranty.

## Warranty

To activate the warranty, we encourage you to register your product on: <http://mypedal.darkglass.com> and enter the serial number on the back of your pedal.

## Controls

**Master:** Whereas the Level Knob controls the output of the overdrive section the Master volume adjusts the overall volume of the unit. Ideal for fine tuning the output on clean mode. It also serves as a DI level control.

**Blend:** Mixes the clean and processed signals. The clean signal remains at unity gain while the volume of the overdriven signal is set by the Level knob, allowing for fine mix tuning.

**Level:** Sets the volume of the overdriven signal.

**Drive:** Sets the amount of gain in the overdriven signal.

**Attack Switch:** Sets the amount of treble content to saturate: The "Boost" setting emphasizes the treble content extra clarity and presence. The "Flat" position leaves this register untouched while the "Cut" position will reduce the amount of high frequencies being saturated.

**Grunt Switch:** Sets the amount of low frequency content to saturate by selecting between three different bass boost levels before the clipping stage.

**Bass:** +-12dB @ 100Hz | **Lo Mids:** +-12dB switchable 250Hz, 500Hz and 1kHz | **Hi Mids:** +-12dB switchable 750Hz, 1.5KHz and 3kHz | **Treble:** +-12dB @ 5kHz.

**Direct Output:** Balanced XLR output for connecting the pedal to a microphone preamp, PA system etc.

**Ground lift:** Disconnects the signal ground on the Direct Output to break any ground loops. Set this switch to either position that has less noise. The switch does not affect the ¼" output.

**Cab Sim:** Toggle the cabinet simulation on/off on the Direct Output. This switch completely bypasses all digital circuits and allows you to get a zero latency signal when needed.

**Headphones:** B7K Ultra has an internal stereo headphone amplifier capable of driving a minimum load of 16 ohms from the 3.5mm stereo jack. Use the Master volume control to adjust the level.

**WARNING:** When the pedal is on bypass the master volume does not affect the headphone volume. In this case the total volume is adjustable in Darkglass Suite. With sensitive headphones the bypass volume can be very loud if not adjusted.

**USB:** A Micro USB B connector allows you to connect the pedal to PC/Mac to load cabinet simulation impulse responses to the pedal and control various other settings.

## Technical Specifications

Single user loadable cabinet simulation impulse response

- 48 kHz, 16 bit internal processing
- 1.6 ms latency
- 88dB signal to noise ratio

Micro-USB B port to connect to PC/Mac to load cabinet simulation IR

3.5mm headphone output with cabinet simulation:

- 16 ohm minimum load,
- 50mW output power at 16 ohms,
- 30mW output power at 32 ohms

Balanced XLR output with switchable cabinet simulation and switchable ground lift

**Input impedance:** 1M ohm

**Output impedance:** 1k ohm

**Power supply:** 9V DC center negative

DC current consumption 110 mA

### Dimensions

Width 125 mm (4.92 in)

Height 96 mm (3.77 in)

Depth 57 mm (2.24 in)

Weight 430 g (0.94 lb)

## **EMC / EMI**

This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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