

# OPFXS DIG DEEP MK1

Sub-Harmonic Octaver

[opfxs.com](http://opfxs.com)

- User manual -

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## Table of Contents

1. **Introduction**
  2. **Controls**
  3. **Function Switch Settings**
    1. Toggle Between Fast and Slow SUB ATTACK
    2. Toggle Between MONO and SPLIT Output
    3. Set TRACKING
    4. Set SUB TONE
  4. **Tips for Optimal Performance**
  5. **Internal Trimmer Adjustment**
  6. **Specifications**
  7. **Warranty Information**
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## 1. Introduction

Thank you for choosing the DIG DEEP MK1 Sub-Harmonic Octaver by OPFXS. This user manual will guide you through the operation, controls, and maintenance of your pedal. Please read this manual carefully to ensure you get the most out of your DIG DEEP MK1 experience.

## 2. Controls

### DRY

The DRY knob sets the level of the dry input signal. The DRY knob can both boost or reduce gain. DRY knob has a secondary function called TRACKING which can be accessed through FUNCTION switch.

### SUB

The SUB knob sets the level of the lower octave. SUB knob has a secondary function called SUB TONE which can be accessed through FUNCTION switch.

### FUNCTION

The FUNCTION switch is used to set various functions, including SUB ATTACK, SPLIT OUT, TRACKING, and SUB TONE.

### 3. Function Switch Settings

#### SUB ATTACK

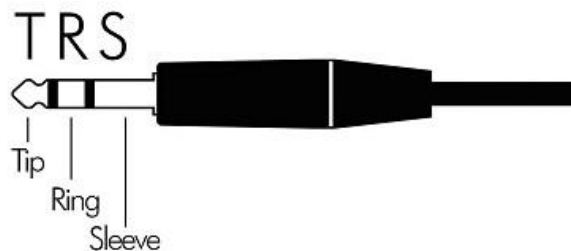
The SUB ATTACK function toggles between FAST and SLOW attack of the octave down signal.

#### *How to Toggle Between Fast and Slow SUB ATTACK:*

With the pedal bypass LED turned ON, press and hold the FUNCTION switch for 2 seconds. The LED will flash a few times to indicate a successful change.

#### SPLIT MODE

The SPLIT MODE function toggles between MONO and SPLIT output. In MONO mode, SUB and DRY signals are mixed on a single channel. In SPLIT mode, SUB and DRY are sent to different channels, requiring a Y jack or adapter to work. In SPLIT mode, the TIP of the jack carries the DRY signal, and the RING carries the SUB signal. This is useful for routing DRY and SUB to different audio paths.



#### *How to Toggle Between MONO and SPLIT Output:*

Put the pedal in bypass status by pushing the bypass footswitch. Then, press and hold the FUNCTION switch for 2 seconds. The LED will flash a few times to indicate a successful change. Note that the current absorption increases by 10mA in SPLIT mode.

#### TRACKING (8 STEPS)

The TRACKING function sets tracking for different guitars and pickup types. This setting affects the octave down response to your guitar and offers 8 different tracking options. Lower TRACKING settings (knob CCW) move the sub-octave range toward low frequencies, while higher TRACKING settings (knob CW) move it toward high frequencies.

Essentially the TRACKING function serves the purpose of adapting the Dig Deep to the frequency response of your instrument. Low settings are ideal for drop down tunings or just to give priority to low notes. For example if you hear glitches or note jumping when you play the lowest note on your instrument try to reduce TRACKING by a step and until the lowest note tracks fine.

Low settings of TRACKING may btw reduce the range on higher tracked notes.

If you don't know how to set TRACKING start with the highest setting (knob full CW), play and turn knob down one step until you find the best position.

## How to Set a New TRACKING:

Press the FUNCTION switch once. The LED will start blinking. Set the new TRACKING by moving the DRY knob and play to test which TRACKING setting works best. When done, press FUNCTION once again to exit.

## SUB TONE (12 STEPS)

The SUB TONE function sets the tone of the sub-octave, ranging from dark (CCW) to bright (CW). You have 12 different tone options to choose from.

## How to Set a New SUB TONE:

Press the FUNCTION switch once. The LED will start blinking. Set the new SUB TONE by moving the SUB knob and play to test your preferred setting. When done, press FUNCTION once again to exit.

**Note 1:** While setting TRACKING and SUB TONE, both SUB and DRY levels are held and not affected by moving the respective knobs. This allows you to set TRACKING and SUB TONE while playing with previous levels of SUB and DRY.

**Note 2:** TRACKING and SUB TONE values are changed and saved only after moving their respective knobs. If you press FUNCTION by accident or want to set TRACKING or SUB TONE only, there's less risk of performing an undesired modification.

## 4. Tips for Optimal Performance

- **Tube Amps:** Some tube amps may be easily overloaded with certain settings of the DIG DEEP MK1, resulting in unwanted distortion. To avoid this, try the following:
  - Set SUB to zero and adjust DRY to match the bypass level. Gradually raise SUB until you find the right balance between the octave down effect and the dry signal.
  - Decrease the preamp gain on your tube amp and increase the master level to compensate for volume drop if it occurs.
- DIG DEEP MK1 is engineered for use with guitars but can respond well to different types of instruments and sound sources.
- For the best and most accurate tracking, place DIG DEEP MK1 before any pedal/effect that alter the harmonic content (overdrive/distortion). While this is not a strict rule, feel free to experiment to suit your preferences.

## 5. Internal Trimmer Adjustment

The internal trimmer adjusts the input level to prevent distortion with high-level output instruments. To adjust it, follow these steps:

1. Remove the chassis bottom cover to access the internal trimmer.
2. Turn the trimmer clockwise (CW) for maximum input level.
3. Turn the trimmer counterclockwise (CCW) to decrease the input level until you achieve a clean sound.

*It's usually not required to operate the trimmer in most occasions. By default, it's set to maximum input level (full CW).*

## 6. Specifications

- Powering: 9V DC with center negative 2.1mm DC Jack (BOSS™ standard)
- Current Consumption @ 9V DC:
  - 90mA in MONO mode
  - 100mA in SPLIT mode
- Input Nominal Level: Instrument
- Input Impedance: 1M Ohm
- Output Impedance: 1K Ohm
- Bypass: True-bypass

## 7. Warranty Information

For warranty details and support, please visit our website at [www.opfxs.com/warranty](http://www.opfxs.com/warranty).

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Thank you for choosing the DIG DEEP MK1 Sub-Harmonic Octaver. We hope you enjoy exploring the wide range of sounds and creative possibilities it offers. If you have any questions or need further assistance, please don't hesitate to contact us through our website or customer support channels.