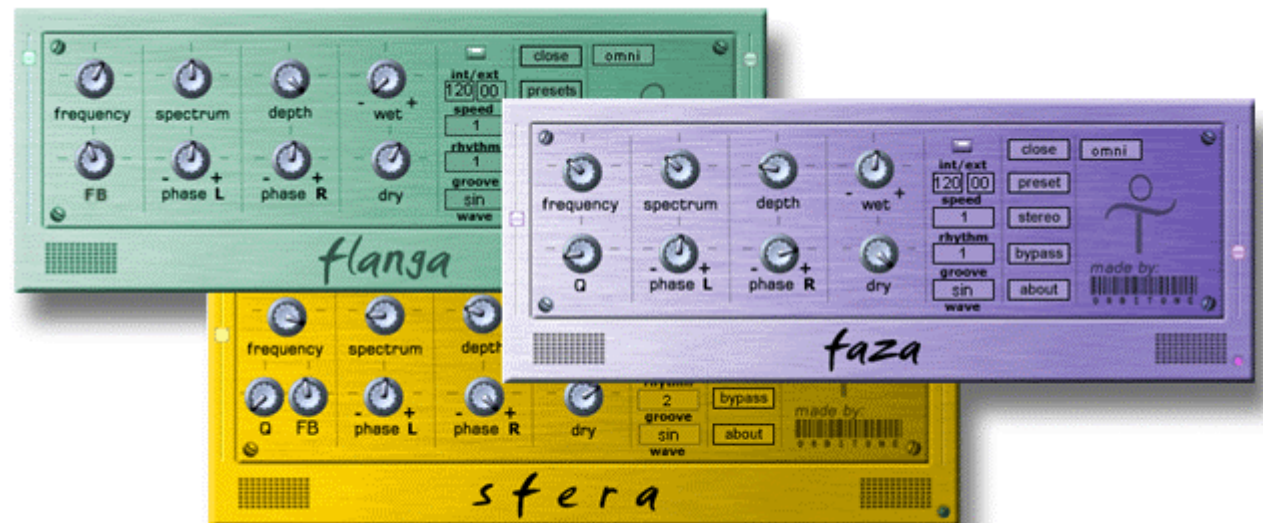


Psy-Fi

Effects

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made by



version 2



version 2

1. Introduction

The **Psy-Fi** effects package includes three effects:

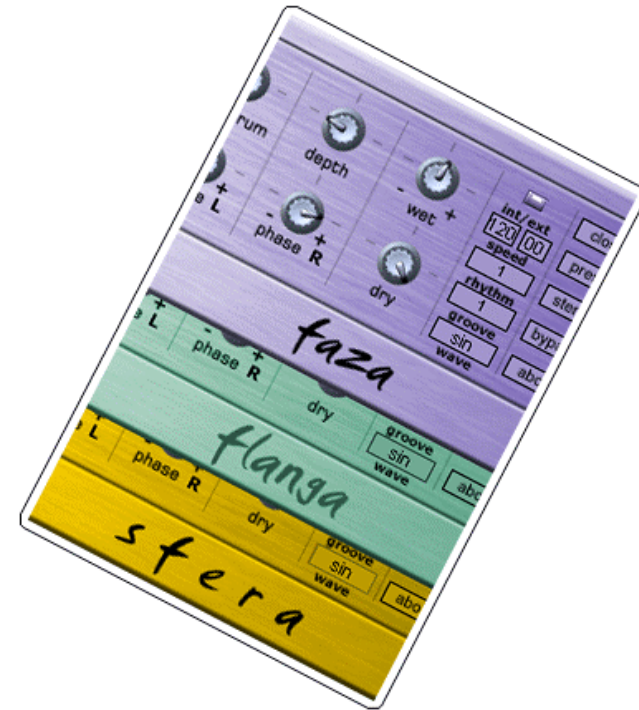
- **Faza**, a phaser effect
- **Flanga**, a flanger and chorus effect
- **Sfera**, a combination between a phaser and a flanger

All three effects share the same design but only differ in the processing method.

The **Faza** uses bandpass filters and notches varying in frequency. The **Flanga** uses delays varying in length. The **Sfera** uses both bandpass filters and delays.

The **Psy-Fi** effects are using new algorithms developed by **Orbitone** and have their own smooth and lush character which will add a lot to your Pulsar / Scope tonal spectrum.

In short, the **Psy-Fi** effects are very flexible effect units which allow you to reach a wide variety of sound, feel and groove. These are not like the standard filter phaser effects, these will go a lot further!



2. Features

New sound character:

- New algorithms which brings a new character to your sound

Enhanced stereo handling:

- Design the effects stereo image

Tempo based rate:

- Extensive control on beat dividing

Modulation:

- Several modulation waveforms to choose from

Frequency Visualisation:

- See what you hear, tuning the effects is easy!

Midi control:

- Full midi control of all parameters, sync to midiclock

Stereo / Mono / Mono-S switch:

- Lowering DSP usage in mono mode

Two Faza versions:

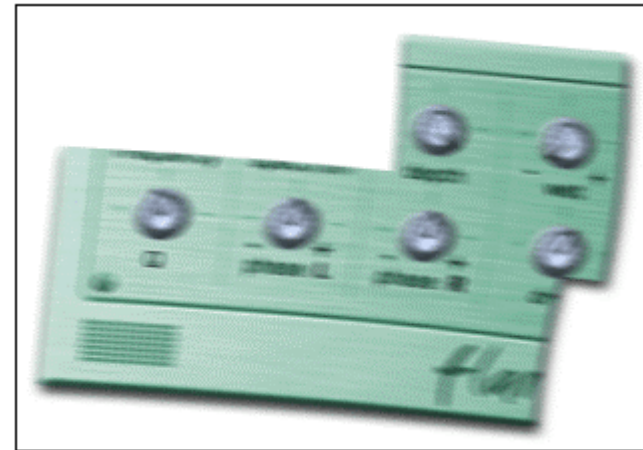
- Hi-Fi version and a Lo-Fi version which takes less DSP and has a different sound character

Insert / Standalone:

- Can be used as an insert effect in the mixers or insert racks

Presets:

- Lots of exciting presets



3. Controls

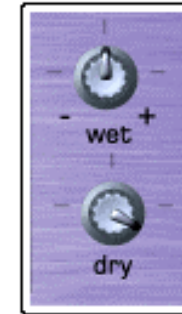
Effects Level Section

1. Wet

- The effect level. This knob is set to 0 when centered. Turning it to the right side(+) amplifies the effects signal. Turning it to the left side(-) it will amplify an inverted version of the signal. The two modes differ in sound. When adding the original effect, it will be added to the sound. When adding the inverted version, it will be subtracted from it.

2. Dry

- Sets the dry signal level from $-\infty$ dB to 0 dB.



Coloring Section

1. Frequency

- Emphasized frequency can be controlled here. The knob is set to allow smooth midi control. If the depth knob is set to *Min*, then this knob will be the only one controlling the frequency.

2. Q(Faza / Sfera only!)

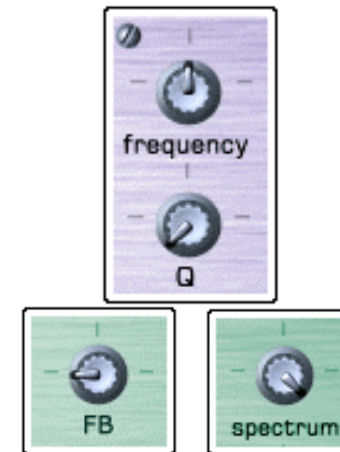
- Adjusting the bandwidth of the bandpass filters. Known to some as resonance. The higher the knob is set the more emphasized the center frequencies of the filters will be.

3. FB(Sfera / Flanga only!)

- Adjusting the feedback of the delay circuit. The higher the knob is set the more emphasized the delay frequency will be.

4. Spectrum

- Enlarges the range of which the frequencies are emphasized. When set to *Min* it will emphasize only 1 central frequency. When turned towards *Max* the range between the first emphasized frequency and the last one grows.



Modulation Section

1. Phase L & Phase R

- Lets you change the modulator's cycle phase, one for left and one for right for stereo image designing*. The phase can only be set in internal clock mode, but once set it will be applied to external mode aswell.

2. Depth

- Determines the depth(range) of the modulating LFO.

3. Int/Ext switch

- When the light is off the clock source is internal, when illuminated the clock source is external, through the Midi in port.

4. Speed

- Adjusts the rate / speed and tempo of the LFO. It is set to BPM*.

5. Rhythm

- Divides the tempo into beats.

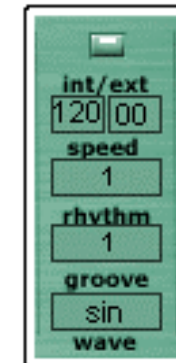
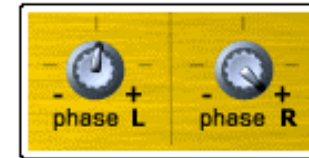
6. Groove

- Retrigger division, allowing you to retrigger the LFO before it has finished its cycle to get interesting modulation forms.

7. Wave

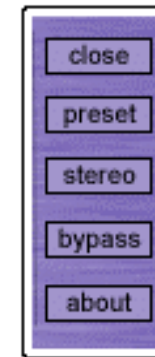
Wave selector for the modulating LFO. Selects between, sin(Sine), squ(Square), sa-u(Saw Up), sa-d(Saw Down), tri(Triangle), ran(Random).

* You must wait for a cycle to finish its course before the phase is updated.



General Controls

1. **Close**
 - Closes the effects surface.
2. **Preset**
 - Opens the preset list.
3. **Stereo / Mono / Mono-S**
 - Allows you to switch from a full stereo mode to a mono mode(only left side working) which uses less dsp, or a mono input(Left) to stereo output. Stereo=Full Stereo, Mono=Only left side working with less dsp usage, Mono-S=mono input(Left) to stereo input.
4. **Bypass**
 - Switches between effected mode and bypassed mode.
5. **About**
 - Opens an about box with information about Orbitone and the product.



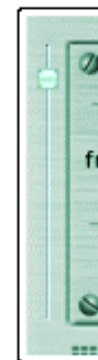
4. Midi

To use an external MIDI controller to control the knobs, select a MIDI channel in the midi channel selector, and then right click on the knob you wish to control; then just move the desired controller so that Pulsar/Scope recognizes it, and you're all set, for more information on configuring midi controllers see the *Pulsar manual*.



5. Frequency Visualisation

Visual aid to see the phase of the emphasized frequency on both sides!

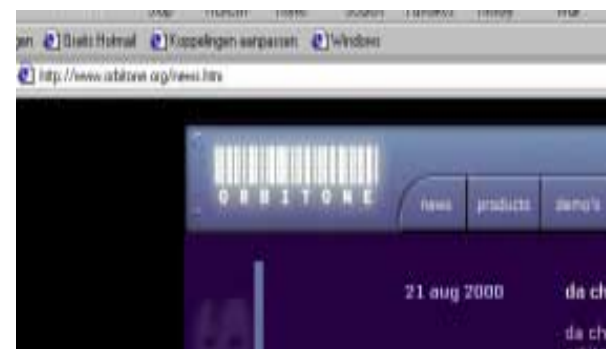


6. Presets & Audio Examples

Several example audio files can be downloaded from our website to assist you in experimenting and exploring some of Psy-Fi's features. The presets should be a good starting point for you to use with your own audio material.

We made a special page at our website for the "extra" files of all our products, the location of this page is:

<http://www.orbitone.org/users/>



6. Enjoy!

We know this effects package will add rich textures, overtones, colors and interest to your music. The effects are easy to use and sound great!
The only thing you need to do is drag them to the Pulsar / Scope project window and **GO!**