erica synths

BLACK K-PHASER

THANK YOU FOR PURCHASING THIS ERICA SYNTHS BLACK SERIES MODULE!

The Erica Black Series includes high-end modules with unique functionality and superior build quality. Only the best, highest quality components are used, all inputs and outputs are protected against undesired overvoltage. When designing the Black Series, we placed an emphasis on usability with the goal of providing an enjoyable user experience. Big knobs are assigned to functions that make differences in sound. The Erica Black Series consists of a range of modules that are needed to put together an entire synth. Enjoy!

The **Erica Synths Black K-Phaser** is our take on a classical, genre defining FX unit – the Krautrock Phaser. It retains the original concept of 8 all-pass filters with photoresistors, but we redesigned the filters and modulation circuit and added several unique features. A dip switch allows for selecting the number of filter stages involved in the resonance path, while the resonance attenuverter brings in never-heard-before feedback artefacts, and most importantly – the SPREAD mode detunes the all-pass filters for even more distinct behavior. A built-in voltage controlled LFO with selectable waveforms expands the modulation possibilities of the phaser and can be used as an independent modulation source for your modular system as well. The Black K-Phaser is our tribute to the German electronic music pioneers that largely shaped the sound of electronic music worldwide.

FEATURES:

8 all-pass filters with photoresistor control
Classic and Spread (filter detune) modes
Resonance attenuverter
Selectable resonance path
Built in VC LFO with a dedicated output
Wet output

SPECS:

Audio level	10Vptp
CV level (full span)	-5V - +5V
Max power consumption	88mA@+12V, 78mA@-12V
Module width	10HP
Module depth	35mm

PHASE

This is the manual phase shift control. An external CV is added to the knob position

MODE

Choose between CLASSIC filter configuration, where all all-pass filters are tuned the same, or SPREAD configuration, where the filters are detuned. The difference is particularly distinctive with the resonance added

CV LEVEL

This is the CV attenuverter. At 12:00, no CV is applied, turning a knob clockwise increases CV amount, turning it counter-clockwise, the incoming CV is inverted

LFO SHAPE

Select a built in LFO waveform

LFO CV IN

The built in LFO has CV control over frequency – patch external modulation sources here to add variation to the modulation

LFO OUT

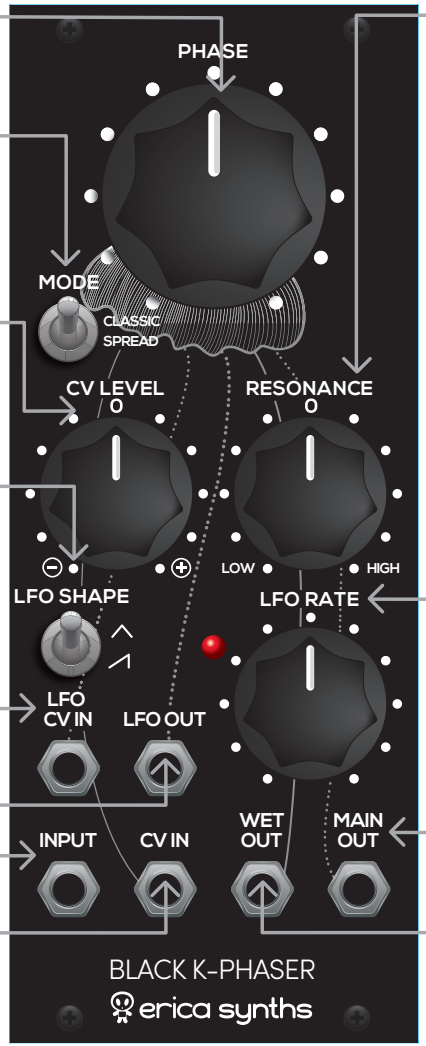
This is the dedicated LFO output – it can be used as an independent "module" to control other modules in your system

INPUT

This is the audio input of the module

CV IN

This is the phase shift CV input. If nothing is patched here, the internal LFO is routed to the CV attenuverter



RESONANCE

A unique feature of the K-Phaser is the resonance attenuverter. Clockwise and counter-clockwise settings yield different results sonically. The DIP switch on the back of the module allows for selecting the amount of filters in the resonance loop.

LFO RATE

This is the manual LFO rate control. An external CV is added to the knob setting. The LED gives a visual reference of the LFO rate

MAIN OUT

This is the main output of the module

WET OUT

This is the WET output of the phaser – it outputs the phase shifted signal only, not mixed with the original signal

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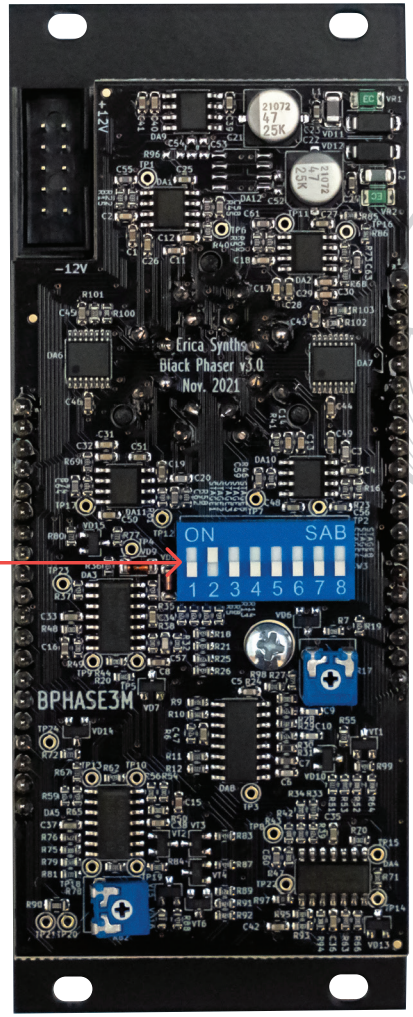

THE DIP SWITH

The DIP switch on the back of the module allows for selecting the amount of all-pass filters in the resonance path. A classic Krautrock Phaser had two filters in a feedback loop as shown here, but you can select any amount of filters that will result in specific resonance behaviour. Normally you would set only one switch to the ON position, but feel free to experiment with several feedback loops

SAFETY INSTRUCTIONS

Please follow the instructions for use of the Erica Synths module below, 'cause only this will guarantee proper operation of the module and ensure warranty from Erica Synths.

Water is lethal for most of the electric devices, unless they are made waterproof. This Erica Synths module is NOT intended for use in a humid or wet environment. No liquids or other conducting substances must get into the module. Should this happen, the module should be disconnected from mains power immediately, dried, examined and cleaned by a qualified technician.

Do not expose the module to temperatures above +50° C or below -20° C. If you have transported module in extreme low temperatures, leave it in room temperature for an hour before plugging it in.

Transport the instrument carefully, never let it drop or fall over. Warranty does not apply to modules with visual damages.

The module has to be shipped in the original packaging only. Any module shipped to us for return, exchange and/or warranty repair has to be in its original packaging. All other deliveries will be rejected and returned to you. Make sure you keep the original packaging and technical documentation.

This device complies to the EU guidelines and is manufactured RoHS conforming without use of lead, mercury, cadmium and chrome. Nevertheless, this device is special waste and disposal in household waste is not recommended.

User manual by Girts Ozolins@Erica Synths.
Design by Ineta Briede@Black8.

Specifications are subject to change without notice.In case of any questions, feel free to contact us through www.erica-synths.lv.

You will find Erica Synths terms of warranty at
www.ericasynths.lv
Items for return, exchange and/or warranty repair have to be registered at SUPPORT on www.ericasynths.lv and send back to us according to instructions in the support page.