## THANK YOU FOR PURCHASING ERICA SYNTHS BLACK SERIES MODULE!

Erica Black Series include high-end, unique functionality and superior quality modules. Only the best, highest quality components are used, all inputs and outputs are protected against undesired overvoltage. When designing Black Series, we did not economy on module width, we put design and usability superior. Big knobs are assigned to functions that make difference in sound. Erica Black series consist of range of modules that are needed to put together entire synth. Enjoy!

Erica Synths Black Wavetable VCO is great, fat sounding wavetable VCO that features 16+ banks of selected waves: classical synths, FM synths, Erica modular, vowels and others. The VCO has separate -1 and -2 octaves suboscillator output, built in VCA and wave morphing feature for more pleasant sound. Additional ROM chips (sold seperately) with extra wavetables are available to adapt the module to your style of making music.

## FEATURES:

16 wavetables of 16 waves
Additional ROM chips with extra waves
VC wavesurf
VC bank surf
Manual and VC bitcrush
Built in VCA
Wave morphing
Suboscillator output
3 suboscillator waves (-1 and -2 octaves)

## SPECS:

Output level..........................................-5V - +5V
Frequency range..........................30Hz – 5kHz
CV input level....................................-10V - +10V
Power consumption................. +48mA, -12mA
Module width............................................12HP
Module depth...........................................25mm

Use this button to select wavetables! LEDs will indicate currently active wavetable in binary code (8+8 for the first two ROM chips). If you use the third ROM chip, bank LEDs will blink.To configure CV IN push and hold a button for 2" until one of LEDs will start to blink. Push button promptly to move through LEDs and select CV IN configuration:
LED1 blinks - CV IN is Bitcrush CV
LED2 blinks - CV IN is Bank surf CV (in this mode bank selection via button is disabled)
LED3 blinks -CV IN is FM CV
LED4 blinks - CV IN controls VCA
If no selection is done within 5" the module goes back to bank select feature. The module will recall CV IN configuration on power off.

Use this knob to manually move throughwaves within the wavetable.
This knob adjusts wavesurf CV level.

This is 1V/octave input. It's quantized by default.

This is wavesurf CV input.
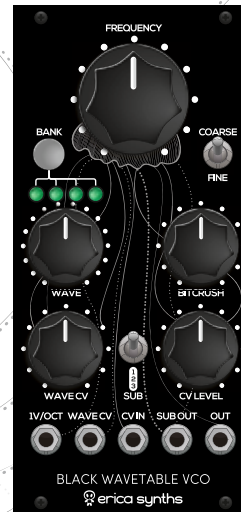
Set the VCO frequency with this knob.

Select range of the Frequency knob! Coarse – 10 octaves. Fine -+-2 semitones. If you power on the module in Fine setting, it will generate C4 note.

Use this knob to adjust bitcrush level manually. Full CCW setting gives you no bitcrush, full CW setting – maximum bitcrush.

Select one of three suboscillator waves! The first is -1oct, the second is -2oct same as the main wave, the third is -1oct transistor suboscillator wave from Varishape VCO.

This knob adjusts configurable CV input level.

And this is VCO output.

This is configurable CV Input. Default setting is bitcrush.

This is suboscillator output.



You can activate suboscillator PHASE LOCK. This will eliminate slight drifting of suboscillator phase that emulates lightly detuned analogue VCO. To do so push and hold BANK SELECT button for 10" till all bank select LEDs will blink once. To deactivate phase lock, push and hold BANK SELECT button for 10" till all bank select LEDs will blink three times.

You can SAVE SELECTED BANK. If you power off your modular synth, and on next power on you wish to have same bank initiated, flip COARSE/FINE SWITCH 4 times. The bank setting will be saved.

## erica synths

## SAFETY INSTRUCTIONS

Please follow the instructions for use of this 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. 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.

Transport the instrument with modules installed 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.

You will find Erica Synths terms of warranty at www.ericasynths.lv.

Items for return, exchange and/or warranty repair have to be sent to: Erica Synths Andrejostas Str. 4a, room T8-C, Riga, Latvia, LV-1045

## DISPOSAL

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

Designed and made in Latvia.
User manual by Girts Ozolins@Erica Synths.
Design by Ieva Andrupe.
Copying, distribution or any commercial use in any way is prohibited and needs the written permission by Erica Synths.
Specifications are subject to change without notice.
In case of any questions feel free to contact us via e-mail **info@ericasynths.lv**

Check out other Erica Synths modules & devices at **http://www.ericasynths.lv**