

## THANK YOU FOR PURCHASING ERICA SYNTHS 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. Erica Black series consist of range of modules that are needed to put together entire synth. Enjoy!

**Erica Black VC Clock** is a beating heart of your modular system. The module generates several clock signals simultaneously and has advanced features (tap tempo, shuffle, divide) both for controlled, rhythmic music production and for experiments with high level of uncertainty. You may find interesting adjustable and even random duty circle of shuffling and random clock outputs. Bonus feature – the module can be used as a performance time stopwatch.

### FEATURES:

- Manually and CV adjustable BPM
- Clock division and multiplication
- External clock input
- 3 digit BPM indicator
- Manually and CV controllable shuffle amount
- Manual and programmable sequencer reset output
- Sequencer reset output
- Adjustable duty circle of shuffling and random clock
- Performance time stopwatch

### TECHNICAL SPECIFICATIONS:

Max input level .....	-10V - +10V
Clock signal level .....	0 - +5V
Clock rate .....	30 - 400BPM
CV input level (full sweep) .....	-5V - +5V
Power consumption .....	40mA@+12V, 5mA@-12V
Module width .....	10HP
Module depth .....	.25mm

7 segment LED indicators show BPM of Clock Out

Use Tap tempo button to set BPM. Push and hold TAP button and rotate SHFL/RND potentiometer to set clock output probability on RND OUT

Use encoder to set BPM manually! Click the encoder to access the configuration menu. Refer to the table below for configuration settings. Rotate the encoder to select desired setting. Push the encoder to confirm it, and return to the main menu. when all settings are completed push RST button to exit CONFIG menu OR module will exit it automatically in 3". Click and hold the encoder and save your default device setting!

You also may want to alter an external clock. When external clock is applied, LED indicators show external clock rate

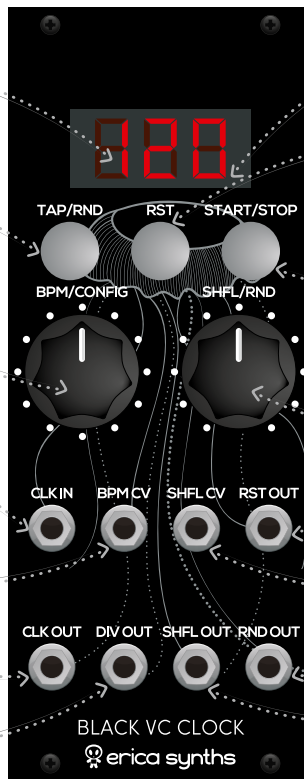
Clock rate is CV controlled – apply any CV here to alter clock rate! LED indicators will show BPM set by encoder and will not follow clock changes

This is output of the regular clock. BPM is indicated on LED indicators

Here you get divided or multiplied clock

#### Indicator Setting/configuration screen

DIV	Select clock division or multiplication rate for DIV OUT. Available values are /2, /3, /4, /8, x2, x4, x8
SHD	Select clock multiplication rate for SHFL OUT. Available values are x2, x4, x8
RND	Select clock division or multiplication rate for RND OUT. Available values are /2, /3, /4, /8, x2, x4, x8
RST	Configure RESET feature. The module send reset signal to the sequencer, and it can be sent manually (push RST button any time you wish to reset the sequencer) or it can send reset signals after certain amount of clock pulses. Available settings are MAN (manual only reset), 16, 32, 48, 64
SHG	Adjust clock duty circle for SHFL OUT output pulse. Available settings are from 10 – 90% and random. Default setting is 50%
RNG	Adjust clock duty circle for RND OUT output pulse. Available settings are from 10 – 90% and random. Default setting is 50%
PTS	Activate or deactivate Performance Time Stopwatch. Performance Time Stopwatch (PTS) allows you to monitor timing of your modular performances. If PTS is activated, after 5 seconds BPM indicator will change to timer screen that indicates minutes (two digits) passed from the moment START/STOP button is pushed and module starts to output a clock signal. Pushing START/STOP button will pause the stopwatch, pushing RST button will reset it.



Small dot next to the last digit gives visual indication of clock rate

Pushing RST button sends high pulse on RST output. Use it to reset your sequencer!

You can Start and Stop the clock on the output buy pressing this button. Stopping the clock will not send RST signal. Push and hold this knob to activate the Performance Time Stopwatch. See it's functionality description below!

Adjust shuffle level from 0 CCW to extreme 90° CW

This is sequencer reset output. Each time the RST button is pushed, high signal appears here to reset the sequencer

This is shuffle CV input

Random clock generates random clock pulses, relative frequency of which is set by BPM. You also can adjust output pulse duty circle

Here's shuffling clock output. Use it for more human feel of rhythm. Shuffling clock can be multiplied by rate set by the encoder. You also can adjust output pulse duty circle

## 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 <http://ericasynths.lv/en/terms/>

Items for return, exchange and/or warranty repair have to be sent to: Erica Synths, Andrejostas Str.12, 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 Baiba Stelle.  
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Specifications are subject to change without notice.  
In case of any questions feel free to contact us via e-mail [info@ericasynths.lv](mailto:info@ericasynths.lv)

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