

ERICA PICO SYSTEM III

Erica Synths Pico System III is affordable, compact, yet powerful sounding, full analogue modular system. It comes in two formats - eurorack and desktop.

Pico System III brings modular synthesis back to the basics – the system has multi functional (instead of single-function, like Pico Drums or Pico Trigger in the Pico System II) analogue modules and is intended to encourage creativity in modular patching. The system has 31 inputs and 20 outputs (master output is dublicated) +7 switches; if you have enough patch cables at your disposal, you can patch the system in 121000931215044250740178662400 or 1.21x10²⁹ variations (we ignored possibility to adjust potentiometers here). Even though only 0,0001% of all patches will sound more-less enjoyable, you and all your future generations can spend a lifetime only patching the **Pico System III**.

Voicecards with preset patches set it apart from other eurorack systems – they allow user to change patches instantly and radically, which makes the system well suited for experimental live performances. The system comes with 5 great sounding "factory preset" voicecards, and 5 DIY voicecards that are empty and user can develop his/her own patches. More voicecards are available from Erica Synths shop.

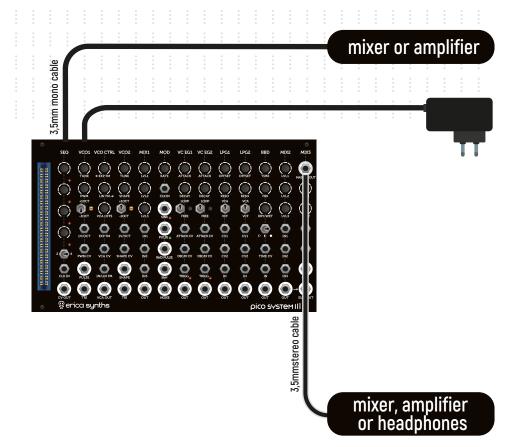
Pico System III features a set of modules for advanced sound design, experiments in modular patching and educational purposes. The system includes: 2-3-4 step sequencer, 2xVCOs, VCO controller/VCA module, several mixers that work both with CV and audio signals, Modulator (syncable LFO, random CV and noise source), 2X voltage controlled ASR envelope generators, 2x lowpass gate and BBD delay.

QUICK START - DESKTOP VERSION

The Pico System III is plug and play! Connect the power connector cable, connect the MASTER OUT to mixing console or amplifier using 3,5mm stereo cable (if you use top output connector. The system does not output actual stereo signal – the mono signal from the output is split to both left and right channels) or 3,5mm mono cable (if you use the connector on the back of the system), flip the power switch and start patching! You can also connect headphones to the MASTER OUT.

QUICK START – EURORACK VERSION

Just install the system in your eurorack case and start patching!



Pico System III eurorack version includes:



Erica Pico System III eurorack module





5 voicecards with factory preset patches





5 DIY voicecards



User manual which contains pages for your patch notes

gerica synths

Main specifications

Audio signal levels 10Vptp CV signal levels (full span) -5V - +5V Sequencer CV output range 0 - +5V VCO tune range CO - E7 LFO rate 0.21Hz - 20Hz

VC EG attack time 0...3" VC EG release time 0...4,2" Max BBD delay time 400ms Panel width 42HP

Power consumption

175mA@+12V, 112mA@-12V

Specifications and appearance are subject to change without notice for improvement.

gerica synths

Main specifications

Audio signal levels 10Vptp
CV signal levels (full span) -5V - +5V
Sequencer CV output range 0 - +5V
VCO tune range CO - E7
LFO rate 0.21Hz - 20Hz

VC EG attack time 0...3"
VC EG release time 0...4,2"
Max BBD delay time 400ms

Power supply universal 110-240VAC - 12VDC

adapter 400mA

Power consumption

Dimensions (W \times D \times H) 240 \times 140 \times 80 mm

Mass 0,95 kg (excluding PSU), 1,5 kg

full packaging

Specifications and appearance are subject to change without notice for improvement.

Pico System III desktop version includes:



Erica Pico System III in desktop enclosure



5 voicecards with factory preset patches



5 DIY voicecards



20 patch cables of different length



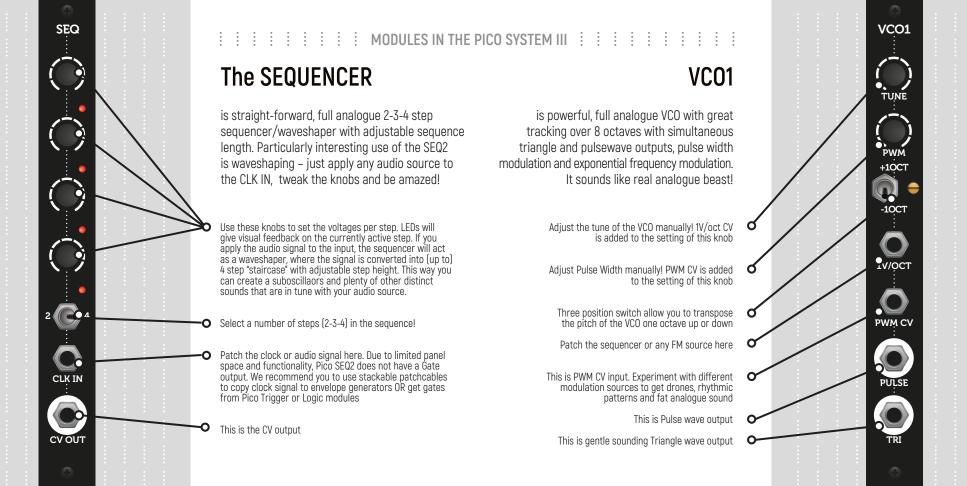
1 stackable Hosa patchcable

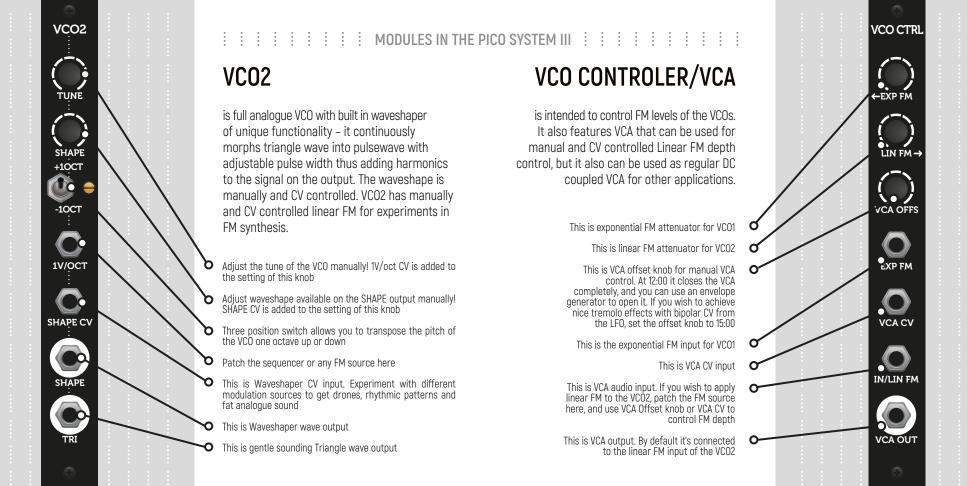


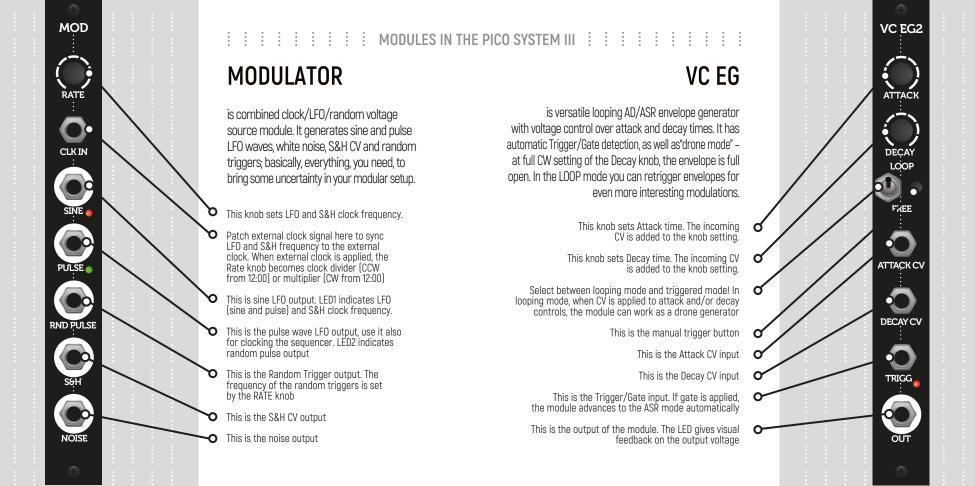
One external 12VDC wallwart PSU unit

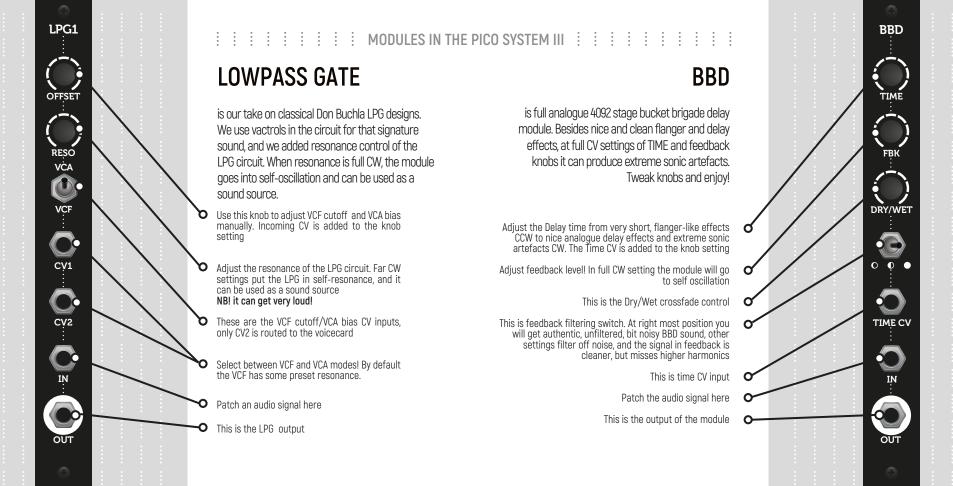


User manual which contains pages for your patch notes









MIXERS

section is straight-forward –
it features two independent DC coupled
mixers for mixing audio and CV signals
with individual outputs and shared output,
where signals from both mixers are
mixed together.

These are the signal level of attenuators for the first mixer

These are audio or CV inputs of the first mixer

This is the output of the first mixer.

If something is patched here, it's automatically disconnected from the SUM OUT

This is the master output of the mixer - oit sums both MIX2 and MIX3

MIX2 MIX3 MASTER OUT LVL1 LVL2 IŅ1 SUM OUT

MODULES IN THE PICO SYSTEM III

This is the master output of the module – it essentially duplicates the SUM OUT, but it features stereo jack socket that splits mono signal to left and right stereo channels.

NB! Use ONLY a stereo cable here! A mono cable will shorten audio to the ground and there will be no sound on the output!

These are the signal level attenuators for the second mixer

These are audio or CV inputs of the second mixer

This is the output of the second mixer. If something is patched here, it's automatically disconnected from the SUM OUT



ĖН

VOICECARDS

Erica Synths Pico System III features voicecards for "saving and recalling" complex patches. Most of the inputs and outputs of the system (noted with blue dots) are normalled to the voicecard, and, instead of making a patch with the patchcables, a user can insert a voicecard that replicates patching. If a patchcable is used together with the voicecard, patchcable has a priority and it overrides the voicecard connection. Some voicecards require extra patchcables in order to complete the patch - those are indicated on the voicecard.



pico system III

VOICECARDS

The Pico System III comes with 5 "factory preset" voicecards:

- 1) LPG Techno
- 2) Synthesizer, Synthesizer
- 3) Space Computer
- 4) Drone Master
- 5) Droid Breakdance

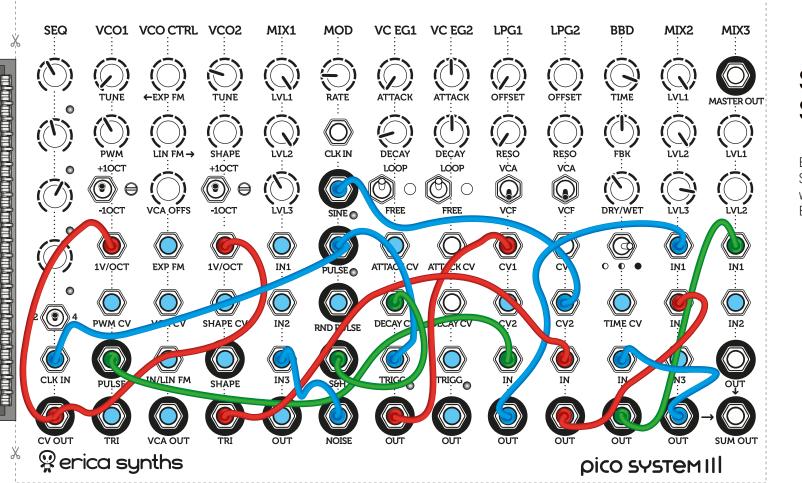
"Factory preset" voicecard internal connections and relevant positions of the potentiometers and switches are shown in the patch examples below.



DIY VOICECARD

The DIY voicecard allows user to build a custom patch by soldering small wires on the voicecard. The voicecard replicates the layout of the system, so, building a patch on the voicecard is similar to patching the system. You will need a soldering iron and small wires to build a patch on the voicecard (if you do not have soldering tools, ask a friend!). You can mimic a stackable patchcables by routing same output to several inputs on the voicecard. And don't forget to name the voicecard – invent a name of the patch and use a permanent marker to write the name on the white area of the voicecard!

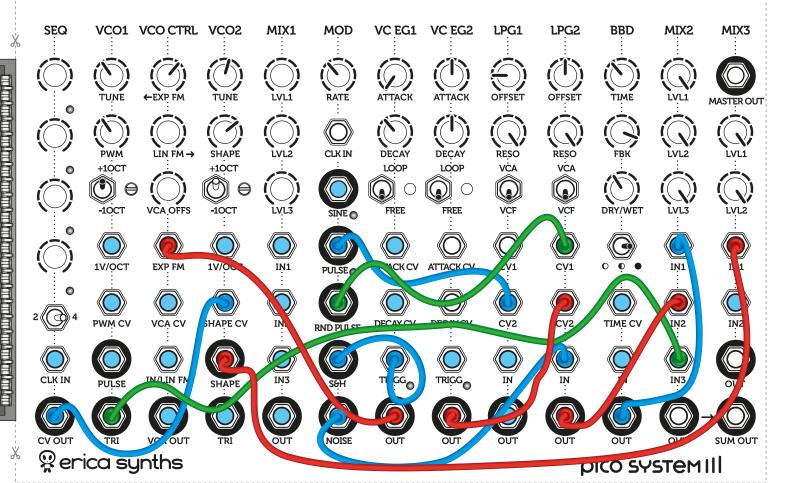




SYNTHESIZER SYNTHESISER

Both VCOs sequenced with the SEQ creates a classic synth line which is then processed with the BBD module.





DROID BREAKDANCE

More LPG drums! This time with a bit of randomness added. Play around with the VC EG1 & VC EG2 switches and VCO2 SHAPE knob and also the RATE knob on the MOD as that is the main clock source for this patch.

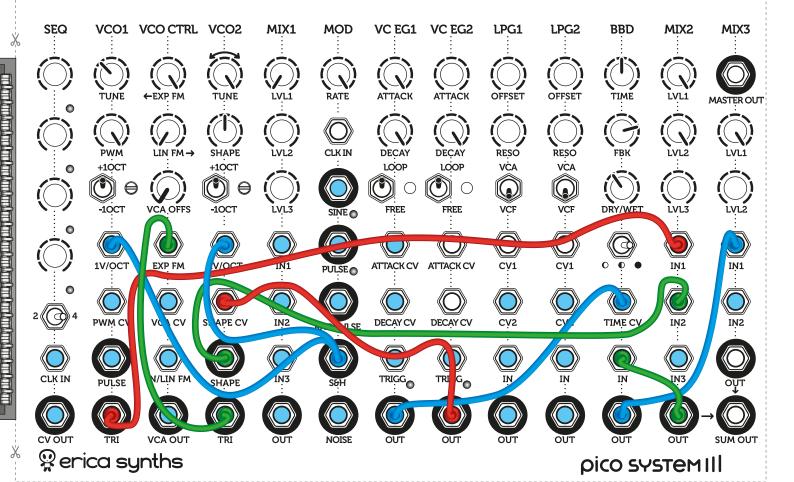


SEQ VCO1 VCO CTRL VCO₂ LPG1 LPG2 **BBD** MIX2 MIX3 MIX1 MOD VC EG1 VC EG2 OFFSET ←EXP FM TUNE LVL1 RATE ATTACK **ATTACK** OFFSET TIME LVL1 MASTER OUT PWM SHAPE LVL2 **CLK IN** DECAY DEÇAY RESO RESO FBK LVL2 LVL1 LIN FM → VĊA VĊA +10CT LOOP LOOP +10CT 795 797 Θ -1OCT VCA OFFS LVL3 FREE FREE VCF VCF DRY/WET LVL3 1V/OCT EXP I 1V/OCT IN1 ATTACK CV ATTACK CV CV1 CV1 0 IN1 IN1 VCA CV SHAPE CV TIME CV PWM CV DECAY CV DECAY CV2 IŅ2 CV RND PULS iGG **CLK IN** IN/LIN FM IN3 TRIGG IN IN3 SHAPE CVOUT VCA OUT TRI OUT OUT OUT OUT SUM OUT Rerica synths pico system III

DRONE MASTER

This card turns the Pico System into a drone machine. Play around with the tuning of both VCOs and LPG offsets! Also everything is sent through the BBD unit.

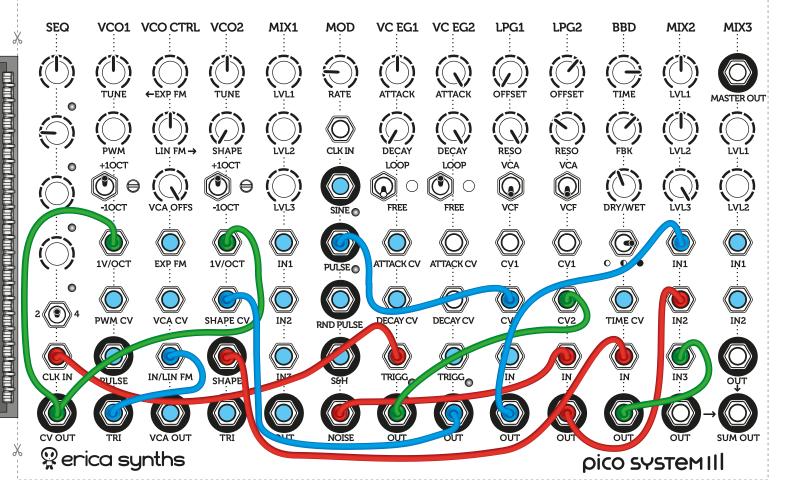




SPACE COMPUTER

Sample and hold everything! Use this card to connect to outer space and use the system as 70s Sci-Fii super computer.
Play around with the RATE on the MOD and also explore the space with the BBD unit.





LPG TECHNO PATCH

In this patch one of the LPG modules is used to create bassdrum and second LPG is used to emulate open hihat and SEQ with both VCOs and BBD to create simple lead sound. MOD is the master clock and trigger source for the LPGs and Sequencer.































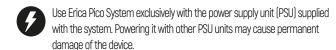
THE ERICA SYNTHS PICO SYSTEM II

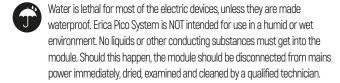
is the world's smallest modular synthesizer of its functionality. It contains wisely selected modules so that beginners are introduced with basics of modular synthesizers and advanced users can play hours long live gigs.

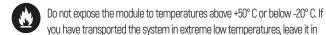


SAFETY INSTRUCTIONS

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







room temperature for an hour before plugging it in.



The system has to be shipped in the original packaging only. Any system 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. 43 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.

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

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 through www.ericasynths.lv or via e-mail info@ericasynths.lv.