ПОЛИВОКС-M

INTRODUCTION

The idea of the Polivoks Mini analog synthesizer came into mind in 1990, as the junior version of its older brother well known Polivoks full synth. The aim was to develop a way simpler and lighter device that has less components, offers the same broad capabilities, and removes possible flaws of the Polivoks full synth. As the result of this research a new minimalistic schematic appeared. It has fewer controls that are compensated by greater functionality.

The overall design of the Polivoks Mini is made in collaboration with Ms. Olympiada Kuzmina, Polivoks full synth concept designer.

Vladimir Kuzmin.

LFO

WAVE - LFO waveform. Triangle wave in the center, and tilt waveform left or right. When you use square wave output from LFO on the "OUTPUTS" panel, this knob adjust PWM of the LFO.
RATE - LFO speed

OSCILLATOR

RANGE (OCTAVE) - VCO octave switch
SUB GENERATOR - SUB VCO octave/waveform switch.
  -1 ⊓⌐ -1 octave square
  -2 ⊓⌐ -2 octaves square
  -2 ⊓⌐ -2 octaves pulse
WAVE - VCO waveform
  ∧ -triangle
  ⊼ -SAW
  ⊓⌐ -Square
DEPTH - pulse width of square wave VCO or pulse width modulation via LFO, depending on the PW/PWM switch.
PW/PWM - Pulse width modulation mode. Manual «PW» or by LFO «PWM»

FILTER

CUTOFF - Filter cutoff frequency
*you can control/automate filter cutoff via MIDI using MIDI CC#1 (mod wheel)
RESONANCE - Filter resonance
BP/LP - Filter mode switch
  ⊬ BP - band pass
  ⊱ LP - low pass
ENVELOPE - bipolar depth of envelope modulation to filter cutoff
LFO - depth of LFO modulation to the filter cutoff

ENVELOPE

ATTACK - note attack time
DECAY - note decay time
SUSTAIN - note sustain level
Release - note release time
ADSR MODE -
  ∧⌐ Normal mode
  ᴍ Autogeneration

AMPLIFIER

ADSR/GATE - VCA ADSR modulatoin ∧⌐ or gate ⊓.
GATE ON - manual gate on (only in gate mode

OUT

VOLUME - audio out level
HEADPHONES - headphone level

MIXER

OSCILLATOR - oscillator level
SUB OSC - sub generaor level
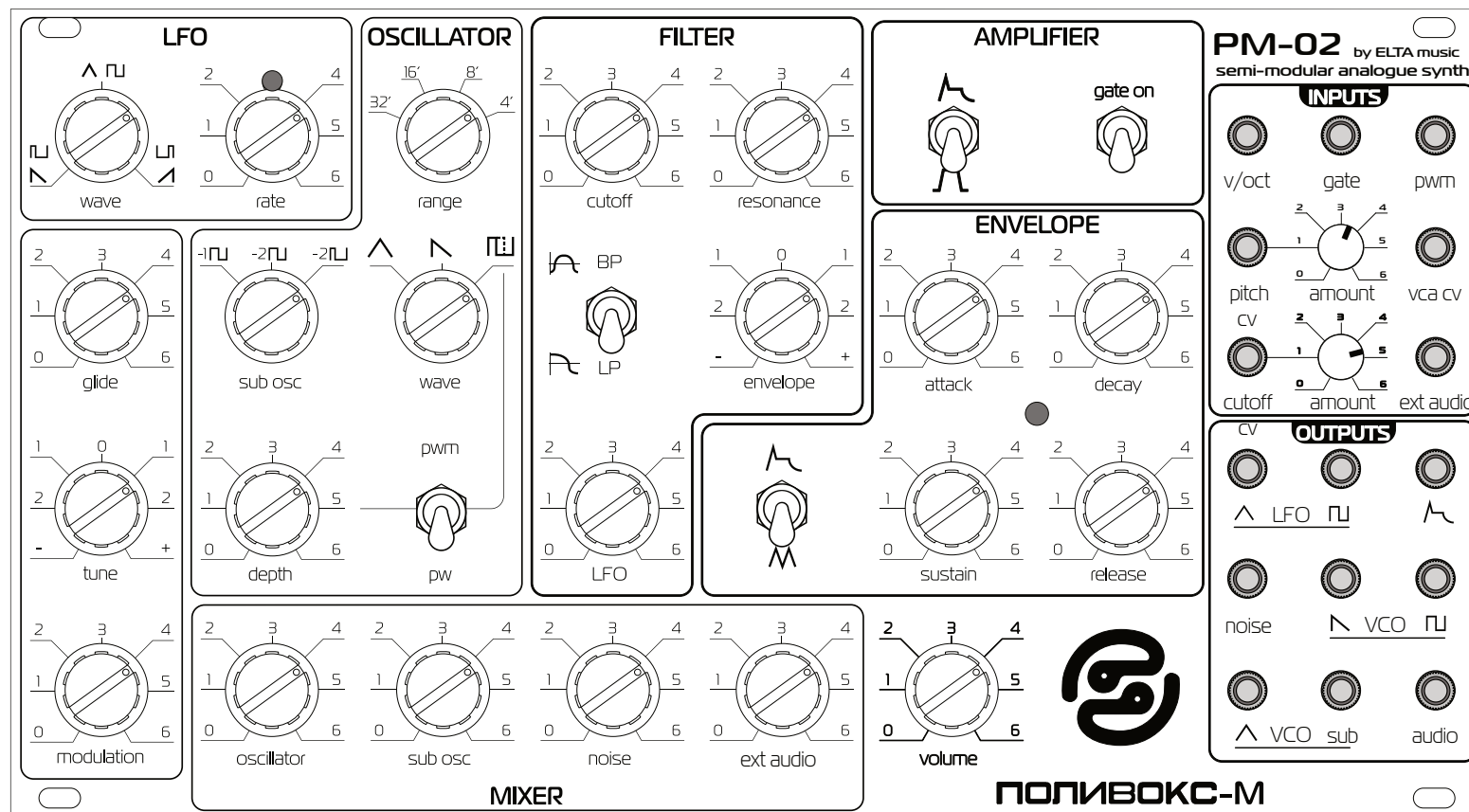**NOISE** - noise generator level
AUDIO IN - external audio input level

GLOBAL SETTINGS

GLIDE - glide time
TUNE - instrument tuning
MODULATION - depth of LFO modulation to VCO pitch.

PM-02 by ELTA music
semi-modular analogue synth

INPUTS

V/OCT - Volt per octave CV input.
GATE - +5V Gate input.
PWM - Pulse width modulation CV input (+/- 5V).
PITCH + AMOUNT - pitch CV modulation input (+/- 5V) + amount knob.
VCA CV - Amplifier modulation CV input (0 to +5V)
CUTOFF+ AMOUNT - Filter Cutoff CV input (0 to +5V)
EXT.AUDIO - external audio in

OUTPUTS

LFO triangle- triangle output from LFO (+/- 2V)
LFO square- square output from LFO (0 to +5V)
ADSR - envelope generator out (0 to +6V)
NOISE - noise generator output (-0,5/+0,5V)
VCO saw - Sawtooth output from VCO (-1/+1V)
VCO square - Squarewave output from VCO (-1/+1V)
VCO triangle - Triangle output from VCO (-1/+1V)
VCO SUB - Subgenerator output from VCO (-0/+7V)

Audio - Main audio output (-0,5/+0,5V)

POWER
Standard Eurorack power socket.

Power consumption + 60ma, - 45ma

ПОЛИВОКС-М™ Modular