



SOVIET SYNTHS ISO-9660 WAV CDROM

UCD-022

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Thank you for your purchase of the SoundEngine.com UCD-022 Soviet Synths Sample WAV CD-ROM set. This CD-ROM is formatted to work on both Macs and PCs. It represents a collection of sounds that have been smuggled out of the former Soviet Union. Great sacrifices have been made by our underground sampling agents to deliver these sounds to your computer or sampler that loads WAV formatted sounds. Comrade, take these sounds and deliver them to your public in your songs. Sing of socialism, collective farms, the proletariat, and our great leaders!

More than 600Mb of analog synthesizer samples are available - fat bass lines, warm pads, aggressive razor leads, smooth classic waveforms, space FX, sounds of noises and machines, percussion, original real time phrases and much more...Thanks to unique architecture and powerful resonant filters, Soviet-made synthesizers have inimitable color in their sound; you get a lot of cool stuff for creating killer patches!

This CD disk contains raw .WAV files (no EQ, FX, compress etc.) in professional format 24 bit/48 kHz. Every patch folder contains 15 to 20 detailed mono samples (for example, "Polivoks" folder> HardLead1> sample1_C 2), accuracy recorded from the every other note in the range of two or three octaves of the synthesizer. It must be noted that before sampling, the source analog synthesizer was tuned. There may be small pitch deviations in the lower or upper range of the keyboard, due to the nature of analog oscillators. Therefore, before starting to work on your patch, you should tune some of the very low or very high notes if necessary. The note length averages 1 to 6 seconds (the longer length is necessary for realistic pads). Some sets contain repeated notes, but with various filter cutoff parameters. Long individual samples with real time opening and closed filter, LFO, cross-modulation and others are also available. The disk contains the sounds of such synthesizers as Aelita, Polivoks, Altair-231, Faemi-1M, Alisa-1387, Maestro, Ritm-2 and others. The sounds of some drum machines, such as Lell PSR, Rockton, Elsit, are also available.

You can check out all of our WAV CD-ROMS by clicking [here](#).

Thanks again for your purchase, and don't hesitate to call us for technical support.

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About the synthesizers on this CDROM



AELITA is a 3-oscillator monophonic synthesizer with 44 keys, produced by the Murom radio equipment factory. The device is housed in a strong aluminum body. The synthesis control panel must be set upright before operation. Sound control is performed with handy faders and buttons of different colors. To be transported, the package is collapsed in a space-saving manner. A strong stiff case, housing the volume control pedal and the cords, is provided.

The Aelita provides impressive analog sound; it is convenient for modeling of fat basses, classic rock leads, hard razor waves, old space synths, noises/FX, etc. It is able to form both hard and soft timbres. By

activating the UNISON function, the number of simultaneously sounding voices may be 5 or 6. Because you can detune the three independent oscillators, it is possible to create "one finger chord hits".

The Aelita synthesizer consists of 5 basic synthesis sections, which are the following: TUNING, REGISTERS/TIMBRE (osc wave switch), UNISON/VOICE LEVEL, TIMBRES CONTROL (filter), VOLUME CONTROL (amplifier). A wide range of modulation functions are available, including RING MODULATION. The synthesizer provides a three oscillator voice, with the addition of unison function, which adds extra timbres to basic sound. Respectively, there are separate controls for all oscillators in all sections.

The TUNING section provides the "global tuning" and separate DETUNE 1/2/3 knob for each oscillator. Below the section, three parameter buttons are situated: RELEASE, UNISON/VOICE and STRINGS. By pressing RELEASE, the "preset released" mode is activated independently of the RELEASE slider in the AMPLIFIER section. Next the UNISON/VOICE ON/OFF button - having entered the mode UNISON ON you will get aggressive layered strings sound (see demo sample1). By pressing the STRINGS button, you actually activate the modulation function, which imitates stringed instruments vibrato; but in conjunction with the UNISON ON mode, it provides "strings" sound with a complex modulated timbre.

The REGISTERS/TIMBRES section contains the timbres range (octave registers) 2i, 4i, 8i, 16i, 32i buttons and the WAVEFORM SELECT buttons (square, triangle and saw). The MODULATION/LFO FREQ slider, also called VIBRATO/TREMOLO, is situated below; four LFO WAVEFORMS selection buttons are situated at the lowest.

Between the REGISTERS and VOLUME CONTROL sections, the MODULATION switch buttons for all oscillators (called VIBRATO 1/2/3) and the button MOD1*3 activating frequency modulation of the first voice with the third one; actually, this is the RING MODULATION mode. Combined activation of the buttons MOD1*3 and UNISON/STRINGS makes it possible to get a uncommon compound timbre of sound.

The section UNISON/VOICE LEVEL contains three sliders 1/2/3/ and three buttons for controlling the volume level and for switching the oscillators ON and OFF. One of the sliders is designed to control the UNISON level in the range 16i. With the button UNISON/VOICE at ON, the sliders 1/2/3 perform the function of controlling the UNISON level of the registers in the ranges 2i, 4i, 8i. Below the section, the MODULATION DEPTH (vibrato) slider is located.

The TIMBRES CONTROL section has two buttons in the left part: KEY TRACKING ON/OFF and LFO (tremolo on/off).

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Near the buttons, 6 filter control sliders are situated, those are the following: FILTER CUTOFF (called RANGE), RESONANCE (SHARPNESS), MOD DEPTH, ATTACK, SUSTAIN/RELEASE, DECAY (called LEVEL). Below the section is the TREMOLO DEPTH. The VOLUME CONTROL (AMPLIFIER) section provides the following functions: ATTACK, SUSTAIN / RELEASE, DECAY (called LEVEL), MAIN VOLUME LEVEL and controlled with the respective sliders. At the rear panel, a 5 din OUT is situated for connection of the volume control pedal or an external mixer/amplifier.

ALISA 1387 is a compact monophonic melodic synthesizer, produced by the Lubertsy EMI factory. It has a 3-octave keyboard, a modulation wheel, control knobs and regulators. The process of synthesis is performed with the 2 OSCs, 1 sub oscillator, noise generator, a filter with ADSR, 1 LFO, and wide range of modulation functions. The synthesizer plays a stable keyboard pitch thanks to quartz stabilization of oscillators.



The synthesizer may be successfully used with music of various styles, as a solo instrument for live performances and as an experimental device for studio or home work as well. It provides the sound of original color, has a considerable potential and well-developed modulation functions, along with a handy modulation wheel. The synthesizer provides warm, rich analog timbres; it is ideal for creating smooth leads, fat basses, aggressive techno synths, percussion and much more (see demo samples). The ALISA-1387 is the most reliable and high-quality Soviet synthesizer.

ALISA consists of 7 main sections - OSCILLATORS (called TONE GENERATORS), MIXER, FILTER with ADSR (called FILTER CONTOUR), AMPLIFIER ADSR (SIGNAL CONTOUR), and OUTPUT section.

OSCILLATORS section has three subgroups - OSC 1-2 (called GENERATOR 1 and 2), and REGISTER (wvashape). Their parameters are the following:

- osc1: waveshape switch (pulse, saw, and square - can run simultaneously!), pulse width modulation (wave forms 1 and 2) levels;
- osc2: waveshape (saw/square), sync interval, sync on/off;
- register: 8", 16", 32" and sub-harmonic; next - portamento on/off, level and global tuning.

MIXER section - osc's 1-2 levels, noise generator level.

FILTER - cutoff, resonance, filter vibrato, key follow.

FILTER CONTOUR - attack, decay, sustain release (called amplitude) also switched on/off.

SIGNAL CONTOUR - attack, decay, sustain (only on/off), release.

OUTPUT - main volume level, power on/off.

MODULATION section(left from keyboard) - mod depth wheel, mod purpose - osc/filter, waveform switch - saw/square, rate (called tempo).



ALTAIR-231 is a monophonic 3-osc power synthesizer produced by the Estradin RIP radio plant located in the city of Zhitomir. The synthesizer has 4-oct keyboard (F-C) with velocity sensitivity assign to vibrato effect. Sound editing is performed with round knobs and switches. For live performance there is a wheel which provides pitch shift (called glissando).

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The synthesis engine is based on 3 VCO (any can work as the modulator), 1 VCF (low pass 24dB/oct) with ADSR, 1 VCA, 3 LFO, noise generator (white/pink), portamento. The front panel has 5 main sections - MODULATION, OSC'S, MIXER, FILTER and AMP (called Contour).

MOD section:

- portamento on/off, rate;
- mod mixer knob: balance between modulated by OSC3 and noise, depth amount;
- vibrato on/off, octave shift to 1/2
- pitch wheel (glissando)

OSCILLATORS section:

- osc 1,2,3 registers - 2", 4", 8", 16", 32", LF
- osc 1,2,3 waveshape select - triangle, saw, square, pulse, sine
- osc frequency - freq 1..3, freq 2, freq 3 -linked to keyboard pitch on/off
- modulation on/off switch

MIXER:

- osc 1,2,3 on/off, level
- ext input level, on/off
- noise generator level, on/off
- noise mode switch: white/pink

FILTER:

- mod on/off
- cutoff, resonance, brightness
- attack, decay, sustain
- keytrack on/off

AMPLIFIER:

- attack, decay, sustain
- key hold memory on/off

Global section: main volume, phones volume, phones out (5din), A-440Hz tone on/off, power.

Connection 1/4" jacks: input, output, pedal input (5din), ground.

Power supply: 220V/50Hz, fuse 0,125A

The synthesizer has a label of the Soviet "State Sign of Quality".

RMIF Elsitá is an analog drum module. It contains pads for live playing on the uprights. There are 4 percussion sections in the instrument (from bass drum, snare, to high-hat). Control on the front panel: gain, tone, release, filter, balance, tone/noise, level, channels on (1-4), metronome.



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FAEMI-1M is a compact polyphonic analog synthesizer produced by the Katchkanar radio equipment factory "Formanta", which is the manufacturer of such well-known makes of synthesizers as Polivoks, Formanta, Manual, Maestro etc. Faemi-1M is the "younger brother" of a very popular Polivoks. It bears the same logo on the package and retains some of its most impressive capabilities, for example the powerful resonance filter, which, by expert estimation, outperforms the famous Minimoog! The handy keyboard of the synthesizer has also remained unchanged. But unlike Polivoks, this synthesizer is entirely polyphonic (a so called

"organ-synthesizer"), which makes it possible to merge several timbres with the addition of a timbre passed through the filter.

The FAEMI-1M is housed in a compact metal body with plastic sides. It has a 4-octave keyboard (from F to E; or from "Fa" to "Mi" in Russian; their combination gives "FaeMi"). Parameter editing is performed with handy potentiometers labeled from 1 to 10. The synthesizer consists of four main sections: OSCILLATOR, TIMBRE, FILTER and AMPLIFIER. The units involved in the process of synthesis are 1 VCO, 1 LFO, the lowpass filter with ADSR and VCA.

The OSCILLATOR section provides the following functions: RELEASE, FINE TUNING, GLISSANDO. The TIMBRE section (waveshape select) has four timbre volume controls: PIANO, STRING, CLAVECIN, and BRASS.

The VIBRATO (LFO) group includes the controls of vibrato RATE, vibrato DEPTH and time of vibrato DELAY. The vibrato RATE is displayed on a red-LED indicator.

The FILTER section includes the envelope group: ATTACK, DECAY, SUSTAIN, RELEASE. The parameters of the filter are CUTOFF, RESONANCE, and FILTER MODULATION. The device has a red button which passes the BRASS timbre immediately through the filter (for the other timbres it is impossible).

The AMPLIFIER section includes only one parameter which controls global VOLUME.

On the front connection panel, the following connectors are present: PEDAL input for filter control, PHONE, main OUTPUT and input for SUSTAIN pedal. All connectors are constructed in standard 5-din plugs. Next the POWER connector, power ON/OFF, the FUSE are located nearby.

The synthesizer bears a factory serial number, the year of manufacture, and the price in Soviet roubles (in 1982, 450 roubles were equal to 600 USD). An important feature of the device is to be noted: it bears the Soviet "Quality Mark", which means that the device falls under the highest quality category.

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MAESTRO this is a polyphonic compact instrument and the first Russian microprocessor controlled synthesizer.

It has 20 preset voices of main groups of the traditional instruments, chorus, arpeggiator with memory, and a joystick for pitch and modulation depth.

Polyphony - 4 voices

Oscillator - 1

Preset sounds - 20 (sorted on category), registers 2',4',8',16'

Filter - 2-pole resonant lowpass 12dB/oct

Pitch - tuning, chorus

Modulation - vibrato depth, frequency

Amplifier - release, volume

Arpeggiator/tremolo - rate, up/down, single/double, note memory

Control - joystick pitch/modulation depth (X-Y)

Outs - line, phones(jack)

Weight - 15kg (with case)



POLIVOKS is a legendary polyphonic 2 OSC analog synthesizer; it was among the first synthesizers produced in the USSR. Polivoks had been produced since 1982 by Formanta electronic factory (one of the biggest at the time); it was sold exclusively in the USSR. Polivoks has its own particular electronic parts, reliable keyboard (49 notes F-E) made in magnetically controlled contacts; synthesis modules consisted of independent boards, which was convenient for maintenance. The synthesizer has 2-voice polyphony; each oscillator works with a keyboard note independently; two types of filters: bandpass/lowpass and external input for cutoff control. In addition, Polivoks is housed in an original body of uncommon design with handy

controls. Being closed with a cover, the synthesizer turns into a strong aluminum case.

Polivoks is the most popular vintage Russian synthesizer ever. It has inimitable peculiar sound and very powerful aggressive filters outperforming the famous Minimoog! A fat, lush and very analogue sound is achieved through instability and thanks to unique architecture of the Soviet-era components; in addition, highly reliable military technologies were applied in the process of production. The synthesizer may be used for hard electronic music, or for soft ambient/old school projects and for modelling various effects as well.

Sound synthesis control consists of 8 sections: MODULATOR, MASTER, OSC TUNING (under the cover with the label "Polivoks"), OSC 1, OSC 2, MIXER, FILTER, AMPLIFIER.

LFO Section consists of LFO speed and modulation waveforms (triangle, saw, square, random).

MASTER section is designed to control global parameters of the synthesizer: phones, master tuning, glissando, 1 or 2 voices mode switch, master volume, signal output on/off.

Oscillators tuning (the cover with the "Polivoks" label must be taken off) has the following adjustment parameters: registers, pitch and shift (for each of the oscillators).

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VCO 1: registers from 2" to 32", oscillators waveforms (triangle, saw, square, sine), LFO level, crossfade modulation amount.

VCO 2: registers, waveforms, LFO level, osc pitch.

MIXER section: VCO 1, VCO 2 level, noise generator, external input level.

VCF(Filter): ADSR knobs, ADSR mode (\wedge or $\wedge\wedge$, switched to auto-trigger), cutoff, resonance, BPF/LPF mode, filter LFO level, envelope level.

VCA (Amplifier): ADSR knobs, ADSR mode (\wedge or $\wedge\wedge$, switched to auto-trigger), mod level, keyb memory.

Ritm-2 this is portable solo synthesizer, it has 1-osc (plus sub osc), 1LFO, 2 adsr and more.

First section – portamento / glissando;

Modulation section: modulation frequency knob (LFO); osc section: tuning knob from - to + ; modulation switch from saw, tri and random; tone switch from 32', 16', 8' or 4' ; modulation amount knob from 10 till 2; modulation on/off switch (linked to amount knob);

Mixer section: noise amount knob; saw wave amount knob; tri wave/rising tri wave switch; amount of tri/rising wave;

Filter section: cutoff freq knob; resonance; modulation switch ... choose envelope, tri wave or random; modulation amount knob; keytrack button (between 1/1 keytrack or 1/2); 4 x faders for ADSR envelope;

Output section: output volume knob; phones volume knob;

Amp section: switch between single-triggered envelope and repeating envelope; memory knob; 4 x faders for ADSR envelope.



Rokton is a drum module that is the only "brain" of an electronic percussion kit (complete set incl. trigger pads, stands, cables, pedals). It has 5 independent channels with a complete spectrum of synthesis (sensitivity, filter, pitch, balance tone/noise, decay etc) and two channels for cymbals. There is a built-in auto-rhythm machine with 16 preset patterns, basic control functions and various styles, which can use any edited or factory sounds. It can also produce preset styles and live triggered sounds simultaneously. The module has standard $\frac{1}{4}$ " jacks for connecting to trigger inputs, pedal inputs and line-outs.



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