



OPERATOR'S MANUAL 65/2.0

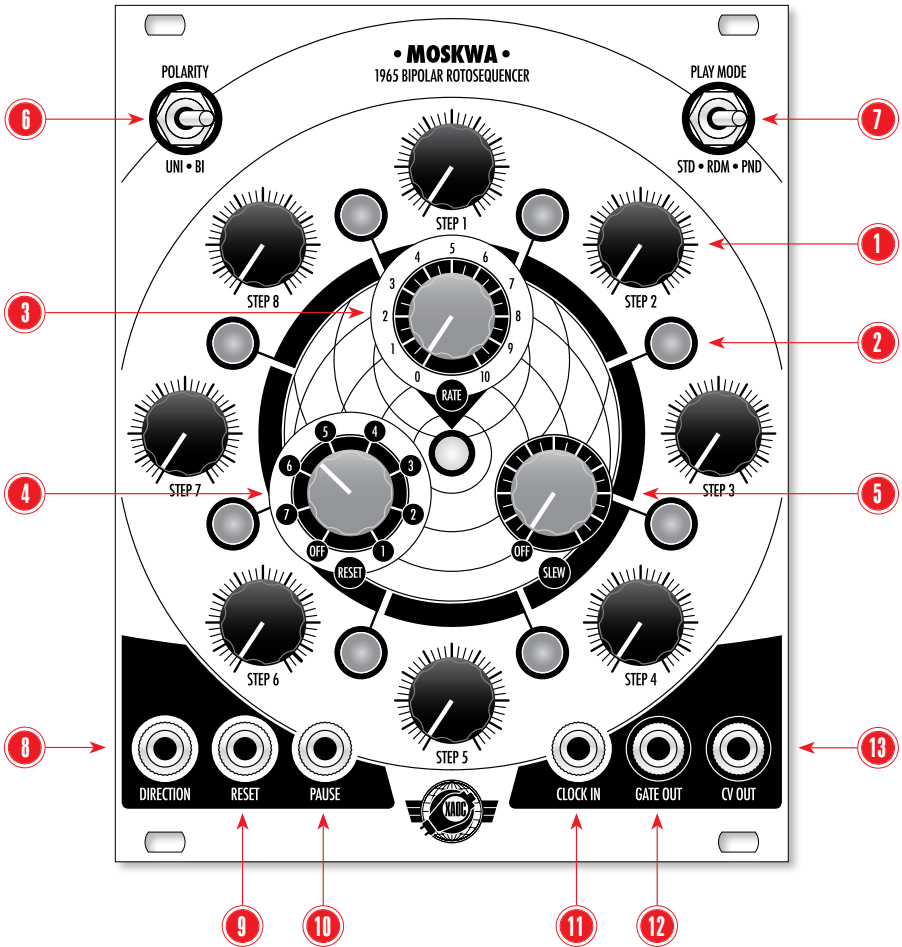
# Moskewa

BIPOLAR ROTOSEQUENCER  
SYNTHESIZER MODULE  
MODEL OF 1965

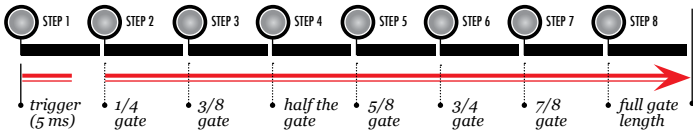


# THE MODULE EXPLAINED

## PANEL TOPOGRAPHY • read more on the next page



## GATE LENGTH ADJUSTMENT • hold the appropriate step for 3 seconds



## SALUT

*Thank you for purchasing this XAOC Devices product. We are extremely proud to introduce such a versatile module: a compact, fully self-contained step sequencer with a handy set of features. We believe it is a great addition to any system, no matter the size or purpose. We hope you enjoy this module as much as we do.*

## INSTALLATION

*Unplug your modular system from the power source first. Clear a 20 hp space in the euroack cabinet, and plug the power connector into the busboard so the red band points right towards the -12V rail (usually the lower one). The module is protected against incorrect connections such as reverse polarity but it is best to pay attention to the orientation of the power cable both at the module and the busboard. Tighten the supplied mounting screws and you're ready to go.*

*Caution—do not remove the jumper from the EXPANDER header! Instructions for connecting two Moskwa sequencer units via the Ostankino expander module are found in the Ostankino operator's manual.*

## CONTROLS & OPERATION

*Each of the 8 steps consists of a CV tune knob ❶ and a gate pushbutton ❷ that mutes/unmutes the step.*

*Also, you can set gate length by holding down corresponding pushbutton for about 3 seconds, then releasing it. While the pushbutton for STEP 1 is always set to provide a standard trigger impulse (5 ms), the others provide divisions of the gate length. For example: holding the STEP 8 button will provide a full gate, while holding STEP 4 will give you 1/2 gate, etc. On release, buttons momentarily light up to confirm your choice.*

*There are 3 red knobs in the central area of the module. The top RATE knob ❸ sets the clock speed, providing the sequence tempo. The RESET knob ❹, on the left, adjusts the sequence length; and the SLEW knob ❺ activates/adjusts a smooth portamento effect (you will probably want to turn this off when patching a quantizer).*

*The POLARITY switch ❻ in the upper-left corner of the panel converts Moskwa from a traditional sequencer (UNI mode) to a sophisticated modulator (BI mode). In unipolar mode,*

*the tune knob for each step ranges from 0V (counter-clockwise) to 10V (clockwise). Bipolar mode ranges from -5V (CCW) to 5V (CW), with 0V at high noon.*

*The PLAY MODE selector ❶ in the upper right has three options: standard (STD) mode is a traditional, clockwise looped sequence. Pendulum (PND) mode plays the sequence forwards then backwards, and random (RND) mode plays them in no particular order.*

*The sequence can be started/stopped, reset, or changed direction with the DIRECTION ❸, RESET ❹, and PAUSE ❷ control voltage inputs in the lower-left section of the panel. These expect trigger or gate signals, and can be used to produce complex melody variations very easily.*

*If you prefer to use an external clock source, simply feed it to the CLOCK IN jack ❶ to the lower-right.*

*There are two voltage output jacks. Typical patches will route the CV OUT ❶ to the oscillator and GATE OUT ❷ to some kind of envelope generator, but of course you are limited only by your imagination.*

## PRODUCT FEATURES



**WORKING  
CLASS  
ELECTRONICS**

- 8 steps of control voltage and gate impulse generation
- unipolar and bipolar voltages
- adjustable overall gate width
- mutable gates (per step)
- 3 play modes: standard, pendulum & random
- built-in slew limiter (linear)
- built-in adjustable clock source
- external clock input
- adjustable sequence length
- voltage controlled reset, pause and play direction
- backward power protection
- expandability via the upcoming Ostankino 1966 Sequence Commander module.

## TECHNICAL DETAILS

- eurorack standard synthesizer module, fully Doepfer compatible
- 20 hp wide
- +12/-12V powered
- current draw: 50 mA



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