



AVP Synthesizers

QUADWAVE

Multi-effects

User Manual

QUADWAVE MULTI FX consists of three separate effects – phaser and two stereo delays, which can be connected either separately from each other or in series: phaser → delay.

On the back of the unit there are five 6.3 mm connectors - three inputs: one common and two for 1st and 2nd delays, as well as a stereo output. The input signals to each of the effects are linear.

Also, on the back panel there is a socket for connecting a 9VAC adapter, a power button and a 3.5 mm jack for connecting CV control of the MANUAL regulator in the phaser.

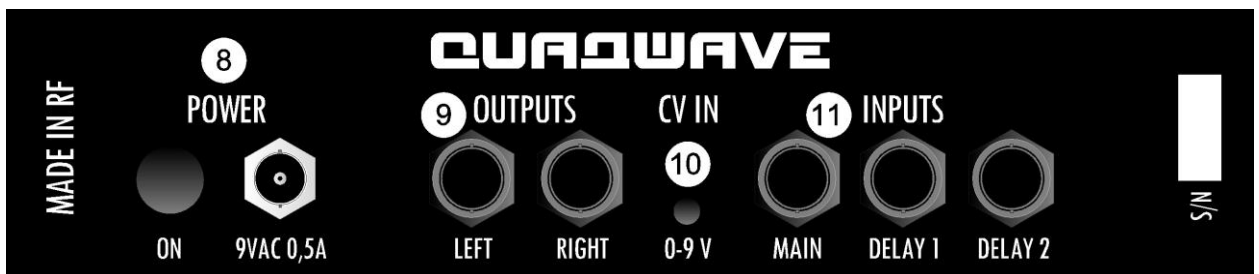


CONTROLS

Front panel



Rear panel



① PHASER section

The phaser consists of 6 stages and an LFO that modulates all 6 stages with a triangular waveform simultaneously (instead of the LFO, you can use the MANUAL knob for manual modulation).

It has 3 controls:

RATE - adjusts the modulation frequency of the phaser;

MANUAL - allows you to manually adjust the tone of the effect;

DEPTH - adjusts the modulation depth of the phaser.

There is a BYPASS toggle switch and an LFO / MANUAL switch.

The phaser is a fully analogue effect, therefore it has an acceptable level of analogue noise at the output.

Note: The noise level depends on the position of the controls.

② LFO DELAY section

There is an LFO for modulating the delays, which has three knobs:

WAVE - selects one of five waveforms - saw, reverse saw, sine, rectangle, random;

RATE - adjusts the delay modulation frequency;

DEPTH - adjusts the modulation depth of the delays.

By adjusting the LFO and knobs in the DELAY1 and DELAY2 sections, you can achieve a CHORUS type of effect.

③ VOLUME control section

There is also a general VOLUME control on the front panel.

The POWER LED next to the volume control indicates that the instrument is on.

④ ⑤ ⑥ ⑦ DELAY1, DELAY2 sections

Both of the delays are stereo delays with identical circuitry. In fact, these are 4 identical delays that can be adjusted separately. Delays contain hybrid microcircuits, the direct signal path of which is analog, and the delay lines are digital. The delay time can be adjusted from 30 to 300 ms.

Each of the four delays has the following 3 controls:

TIME - adjusts the signal delay time;

REPEATS - adjusts the number of repetitions of the delayed signal;

MIX - adds a delayed signal to the direct signal.

⑧ POWER section

⑨ OUTPUTS LEFT/RIGHT

For connecting to external amp, mixer or soundcard.

⑩ CV INPUT of PHASER

Allows to manually control the modulation of the phaser.

⑪ INPUTS MAIN and DELAY 1, 2

Main input allows to process both phaser and 1, 2 delays simultaneously.

Delay 1, 2 input allows to process 2 signals separately.

To use the QUADWAVE MULTI FX in phaser → delay mode, you need to connect a mono signal source to the INPUTS / MAIN jack, and the output cables to the OUTPUTS / LEFT, RIGHT jacks on the back of the device. If you want to use the delays separately, you must connect a mono source to the INPUTS / DELAY1 or INPUTS / DELAY2 jack, or two sources to both of these jacks. In this case, the phaser effect will not be used.

Note: DELAY2 has a self-oscillation mode of the delayed signal repeats. The signal can rise at certain levels of the REPEATS controls (near max level). Therefore, we advise to be very careful with sound amplifying equipment and always make sure that the repeats on the Delay 2 are set cautiously.