

FLAME

FX16-CV MULTI EFFEKT MODULE



MANUAL

Version 1.00

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1. Short description

The Flame "FX16-CV" module is a small low cost DSP-based (Spin semiconductors FV-1, 24bit ADC/DAC) multi effect module, designed for small mobile euro racks. 16 different multi effect programs are available.

There are three knobs with additional CV inputs to change the effect parameters.

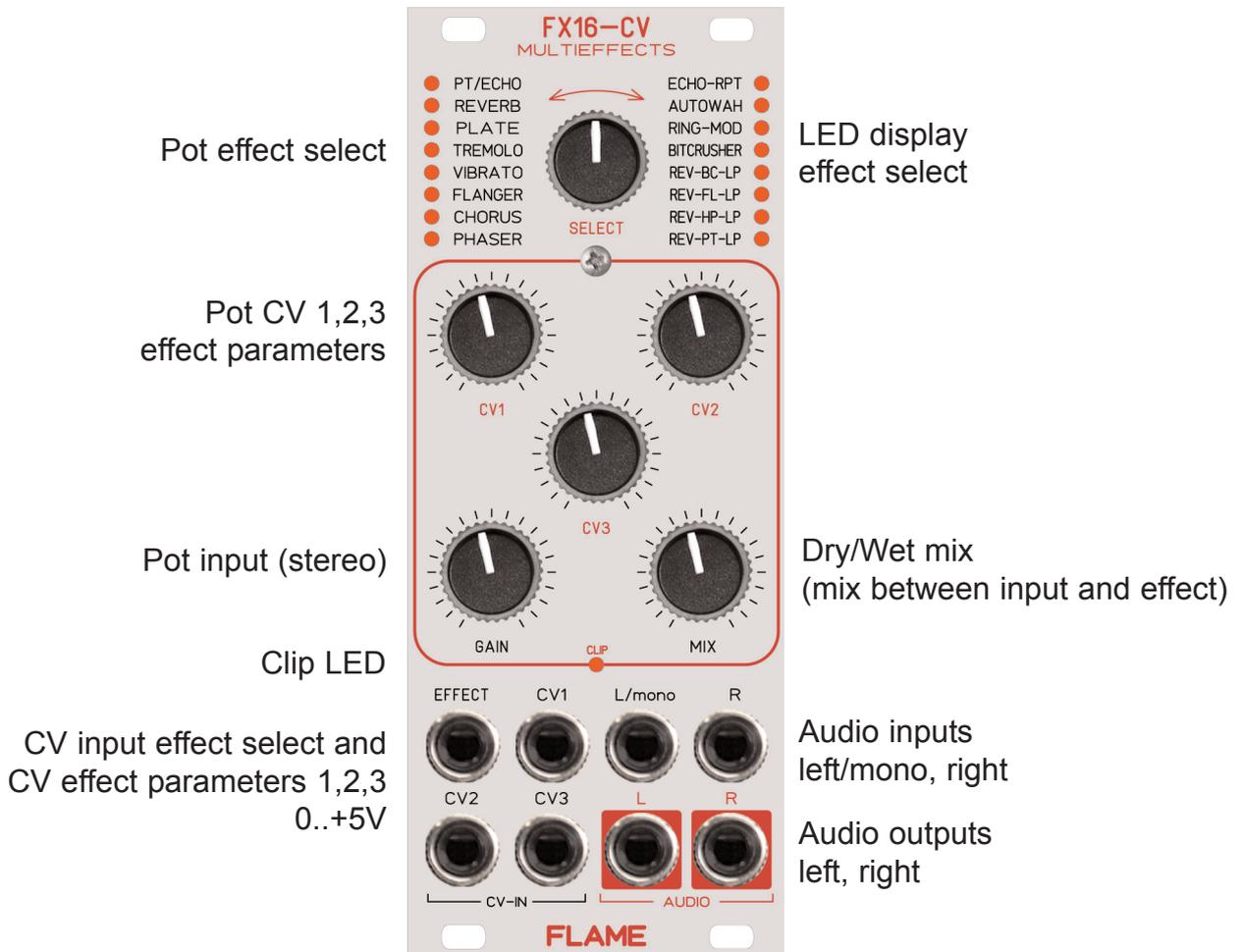
Also it's possible to select the effect program with CV or pot.

Audio stereo input and stereo output levels are adjusted for modular rack levels. The input can be attenuated and is protected against level peaks. The dry/wet pot can be used manually for mixing between input and effect audio signal.

The outputs are buffered by an op-amp. One red LED indicates clipping

2. Hardware / Connection

2.1. Module overview

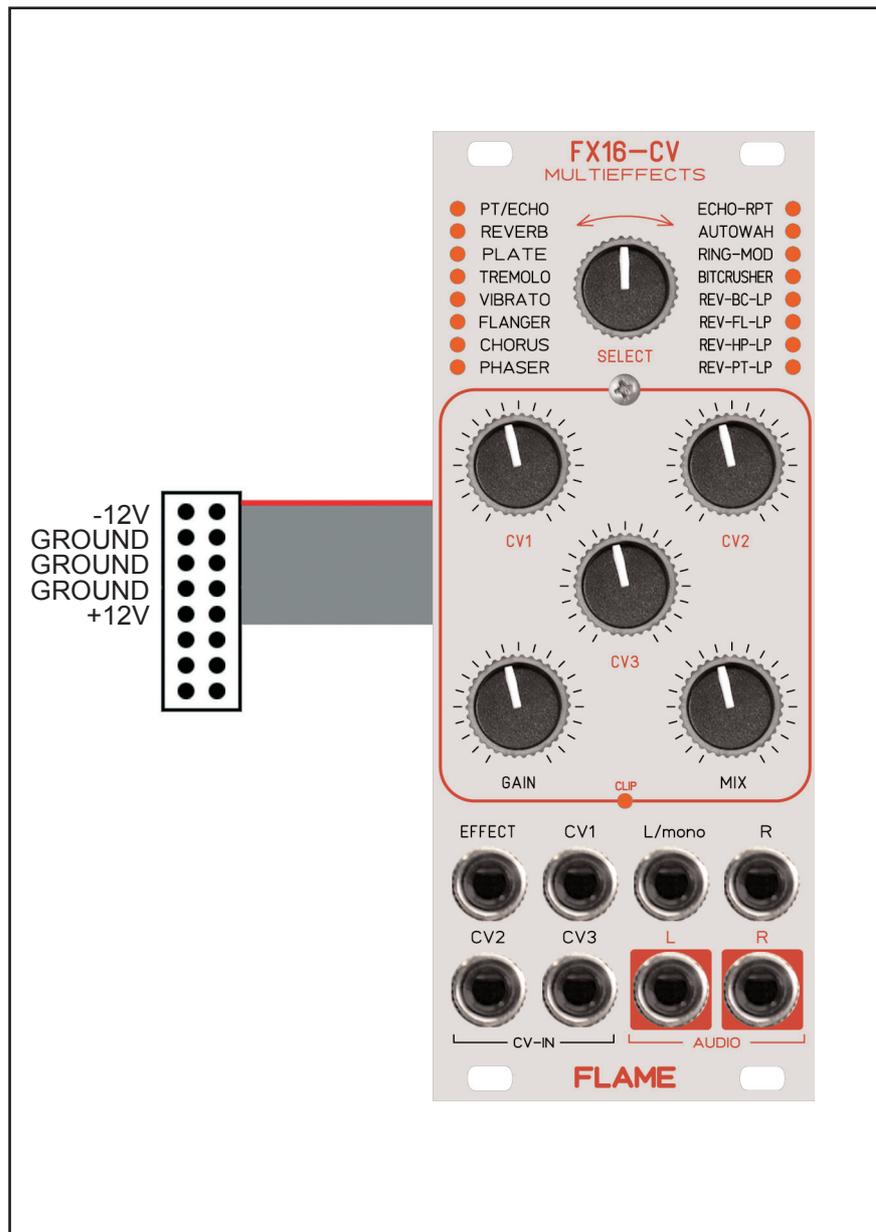


2.2. Connection to the modular system (Doepfer Bus)

The module is delivered with a connected ribbon cable for the Doepfer bus. The red lead marks -12 volt. Connecting the module please note the right polarity!

If the module is poled accidentally wrong safety diodes avoid the immediate destruction of the module but further damages cannot be expected.

So please pay attention: Check the connection various times before switching on!



3. Effect programmes / parameters

Effect program	Pot 1 / CV1	Pot 2 / CV2	Pot 3 / CV3
PITCH/ECHO	Pitch shifter (for Echo left)	Echo delay (left and right)	Echo mix (left and right)
REVERB	Reverb Mix Diffusion	Reverb Time	Decay filtering
PLATE	Reverb Mix Low Pass Filter loss	Reverb Time	High pass filter loss
TREMOLO	Reverb mix	Tremolo rate	Tremolo mix
VIBRATO	Reverb mix	Vibrato rate	Vibrato width
FLANGER	Reverb mix	Flange rate	Flange mix
CHORUS	Reverb mix	Chorus rate	Chorus mix
PHASER	Reverb mix	Phase rate	Sweep width
ECHO-REPEAT	Echo delay (only output left)	Echo delay (only output right)	Echo repeat level
AUTO-WAH	Reverb mix (post effect)	Envelope sensitivity	Effect level / filter Q
RINGMODULATOR	Reverb mix	Ringmodulator Frequency left	Ringmodulator Frequency right
BITCRUSHER	Intensity left and right	Intensity relation left <> right	4 pole lowpass cutoff (pre effect)
REV-BC-LP (Reverb-Bitcrusher-Lowpass)	Infinity reverb	Bitcrusher intensity	4 pole lowpass cutoff
REV-FL-LP (Reverb-Flanger-Lowpass)	Infinity reverb	Flanger intensity	4 pole lowpass cutoff
REV-HP-LP (Reverb-Highpass-Lowpass)	Infinity reverb	2 pole hipass cutoff	4 pole lowpass cutoff
REV-PT-LP (Reverb-Pitchshift-Lowpass)	Infinity reverb	Pitchshifter to zero	4 pole lowpass cutoff

4. Appendix and technical informations

4.1. Technical details

Connections:

Ribbon cable adapter for Doepfer bus +/-12Volt
Inputs: 2x audio left/right, 1/8th inch mono jacks
4x CV 0..+5v, 1/8th inch mono jacks
Outputs: stereo audio left, right, 1/8th inch mono jacks

Control elements:

1 knob to select effects
5 knobs for effect parameters/gain input/dry-wet-mix
1 LED to indicate clipping, 16 LEDs effect display

Current consumption: + 80mA / - 10mA

Size: Euro rack format 3U / 10HP 50,5x128,5mm

4.2 Warrenty

Beginning from the date of purchase a 2-year warranty is guaranteed for this device in case of any manufacturing errors or other functional deficiencies during runtime. The warranty does not apply in case of:

- damage caused by misuse
- mechanical damage arising from careless treatment (dropping, vigorous shaking, mishandling, etc)
- damage caused by liquids penetrating the device
- heat damage caused by overexposure to sunlight or heating
- electric damage caused by improper connecting
(wrong power supply/ jacks/ MIDI connections/ voltage problems).

If you have any complaints please contact your dealer or send an e-mail to:
service@flame.fortschritt-musik.de

4.3 Terms of production

conformity: CE, RoHS, UL

4.4 Disposal

The device is produced with RoHS-conformity (subject to the regulations of the European Union) and is free of hazardous substances (like mercury, plumb, cadmium and hexavalent chrome). But electronical scrap is hazardous waste. Please don't add this to consumer waste. For an environment friendly disposal of waste please contact your distributor or specialist dealer.

4.5 Support

Updated and additional informations, updates, downloads and more see:
<http://flame.fortschritt-musik.de>

4.6 Acknowledgment

For help and assistance big thanks to: Alex4 Berlin, Schneiders Büro Berlin, Shawn Cleary (analoguehaven), Robert Junge, Sebastian Preller, Anne-Kathrin Metzler, Lena Büniger and Ebotronix.