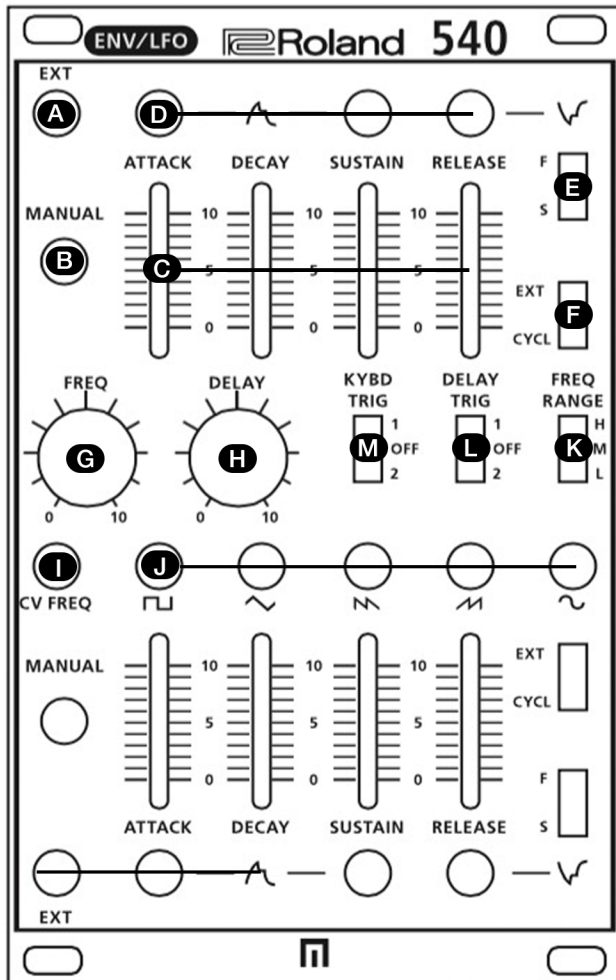


# ROLAND SYSTEM-500 MODULE 540

## DUAL ENVELOPE GENERATOR + LFO

The 540 Dual Envelope Generator and LFO (low frequency oscillator) is a multi-purpose modulation source. This unit features two independent ADSR (attack, decay, sustain, release) envelope sections that produce variable voltages for controlling other Eurorack format synthesizer modules such as oscillators, filters, and VCAs. Each section can be triggered externally, internally, or manually with dedicated jacks for each envelope, as well as an inverted output.

Additionally, the 540 includes a voltage controlled LFO with 5 waveform outputs. Front panel controls adjust both frequency and delay time of the LFO start. Delay and reset can be triggered from either envelope 1 or 2.



### A EXT

If you want to turn the envelope generator on/off from an external source, use this jack to input a gate signal.

### B MANUAL

Starting the envelope cycle.

### C ATTACK, DECAY, SUSTAIN, RELEASE SLIDERS

These sliders specify attack time (the time over which the sound rises), decay time (the time over which the sound decays), sustain level (the level that is sustained after the envelope reaches the peak), and release time (the time over which the sound disappears after the signal input ends).

### D OUTPUT JACKS

Output jacks. Outputting two positive waveforms and one negative waveform.

### E F/S SWITCH

Switching the Envelope speed.  
F - Fast  
S - Slow

### F GATE TRIGGER SWITCH

Starts the envelope cycle EXT and selects the external signal that will control it.

EXT - Trigger by EXT or MANUAL  
CYCL - Self cycling by ATTACK and DECAY setting

### G FREQ

Specifies the frequency of the LFO.

### H DELAY

Specifies the time from when an input signal is received until the LFO starts operating.

### I CV FREQ

If you want to use an external source to control the LFO frequency, input a voltage here.

### J WAVE FORM

These jacks output the LFO signal as pulse, triangle, sawtooth, reverse sawtooth, and sine.

### K FREQ RANGE

Selects the LFO oscillating frequency.

### L DELAY TRIG

Reset LFO delay trigger w/ envelope 1 or 2.

### M KYBD TRIG

RESET LFO waveform by envelope 1 or 2.

### SPECIFICATIONS CONTROLLERS

ATTACK SLIDER  
DECAY SLIDER  
SUSTAIN SLIDER  
RELEASE SLIDER  
MANUAL SWITCH  
FAST/SLOW SWITCH  
EXTERNAL/CYCLE SWITCH  
KEYBOARD TRIGGER SWITCH  
DELAY TRIGGER SWITCH  
FREQUENCY RANGE SWITCH  
FREQUENCY KNOB  
DELAY KNOB

### CONNECTORS

EXTERNAL JACK  
ENVELOPE 1 JACK  
ENVELOPE 2 JACK

POWER SUPPLY  
CURRENT DRAW

### ACCESSORIES

INVERTED ENVELOPE JACK  
CV FREQUENCY JACK  
SQUARE WAVE JACK  
TRIANGLE WAVE JACK  
SAW WAVE JACK  
INVERTED SAW WAVE JACK  
SINE WAVE JACK

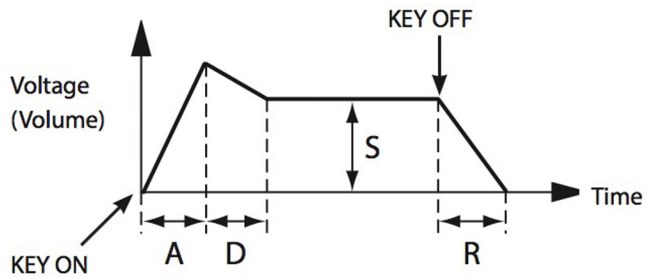
EURORACK POWER  
85 MA (+12 V)  
50 MA (-12 V)

OWNER'S MANUAL  
LEAFLET "USING THE UNIT SAFELY"  
EURORACK INSTALLATION SCREWS  
EURORACK POWER CABLE)

# ROLAND SYSTEM-500 MODULE 540

## ABOUT ENVELOPE GENERATOR AND LFO

---



---

### ABOUT ENV (ENVELOPE GENERATOR) AND LFO (LOW FREQUENCY OSCILLATOR)

An envelope generator produces a time-varying voltage according to the attack (A), decay (D), sustain (S), and release (R) settings; you can use this voltage to control the sound's character or volume over time.

An LFO produces a cyclically changing voltage according to its settings; you can use this voltage to produce effects such as vibrato or tremolo.