

POLYRES RESONATORS

THE LEGEND TRIPLE RESONATOR FROM THE ERA OF THE FIRST POLYSYNTHS



POLYRES 3-BAND RESONATOR

[RACK EXTENSION]
MANUAL

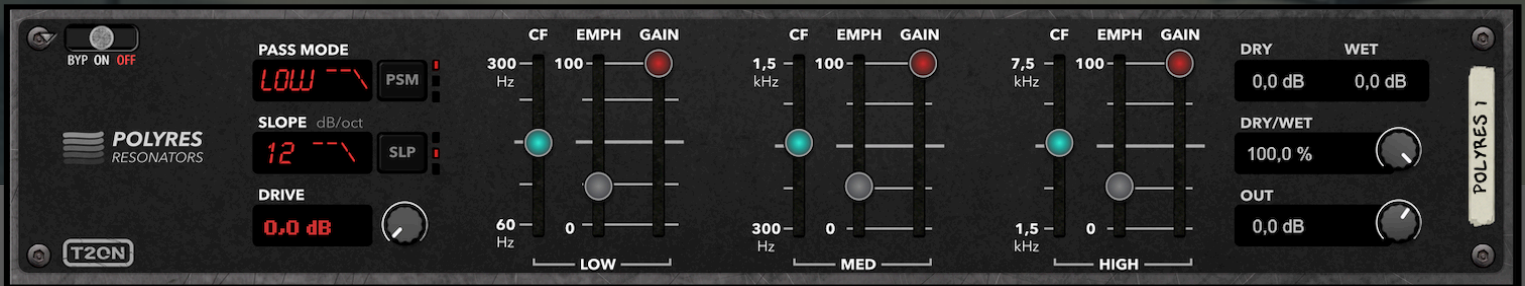
FX device by Turn2on Software

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POLYRES was inspired by the Resonators section in one of the first polysynths - Polymoog synthesizer. The resonators is three parallel filters, globally switchable to HP, LP and BP modes.

Three individual resonant filters are band-limited with own frequency range (LOW 60-300 Hz, MED 300-1500 Hz, HIGH 1500-7500 Hz). Turning up Emphasis for each band create individual peaks (resonances), called Resonators.

While it sound interesting, in the early era of polysyths original Resonators are 6 db/oct filters that passed too many harmonics, resulting in a buzzy sound even at maximum resonance. It isn't very useful for formant sounds because there aren't any overlapping frequencies between the bands.

POLYRES have the same three resonant filters with Cutoff, Emphasis and Gain controls for Low, Medium and High bands. **POLYRES** also include original HighPass, LowPass and BandPass modes. Plus Slope modes (24, 12 or 6 dB/oct) helps to work more clear and stable with incoming signal.

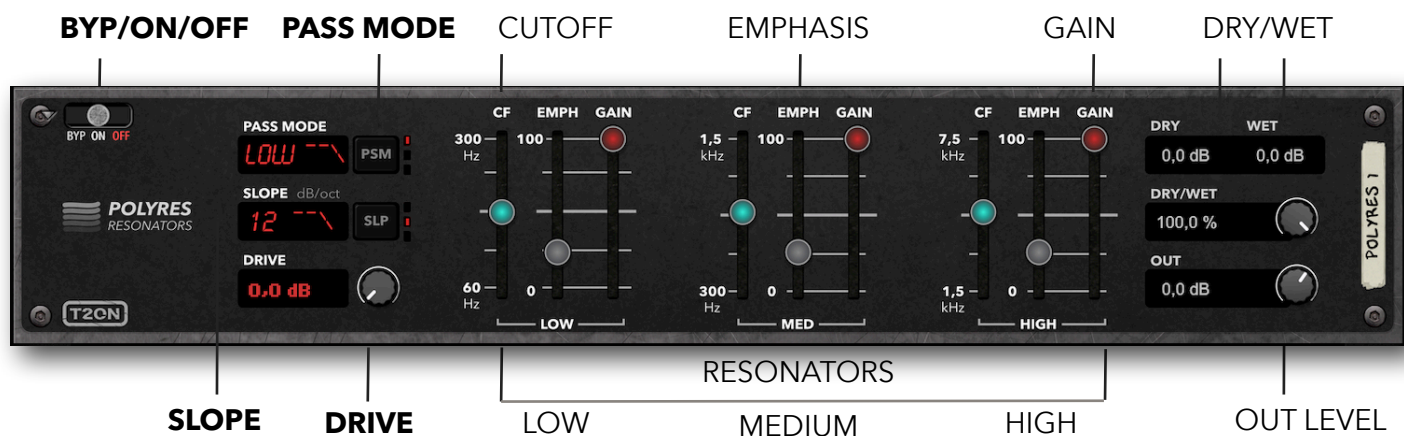
POLYRES resonator are an exclusive audio effect, designed in the earliest era of audio processing in the synthesizer industry. Every sound at "The Model" by Kraftwerk makes use of this resonators section of the original synthesizer.

POLYRES audio processor is a 3-band resonant filters system, that reproduce character of the musical sounds, that was used by many musicians and allows touch to the sound of 70s.

Try out today the legend 3-band resonator.



POLYRES THREE-BAND RESONATOR



PASS MODE

Original hardware resonator section in early polysynth has a three-position PASS MODE switch that selects filter mode for all three resonator bands (Low, Medium, High).

LOW-PASS: Allows frequencies below the cutoff frequency value to pass through, but blocks frequencies above the cutoff frequency value.

HIGH-PASS: Allows frequencies above the cutoff frequency value to pass through, but blocks frequencies below the cutoff frequency value.

MEDIUM-PASS: Combines LowPass and HighPass modes, saving signal sound in the middle. The cutoff frequency is halfway between the slope of the decline on each side.

SLOPE

A filter cuts the signal level at a specified frequency. The slope is measured in decibels of gain reduction per octave. Slope sets the character of how the filter works and affects the frequencies above and below the cutoff frequency. 12 dB/oct: clearer and brighter character. 24 dB/oct: tighter and darker character.

DRIVE

Set the level of the Overdrive with compression for the processed signal

DRY/WET

Set mix levels between the Polyres FX processed signal and incoming Dry signal

ENABLE	BYPASS - disable effect
BYP/ON/	ON - enable effect
OFF	OFF - mute incoming signal

LOW RESONATOR

CF	Cutoff Frequency sets the frequency of the parametric Low-Band (60 - 300 Hz).
EMPHASIS	Resonance parameter: Emphasis signal around the selected cutoff frequency of the Low-Band by adding feedback from the Low-Band filter output.
GAIN	Adjust the volume control of Low-Band Resonator. This resonator can be muted if Gain = 0%

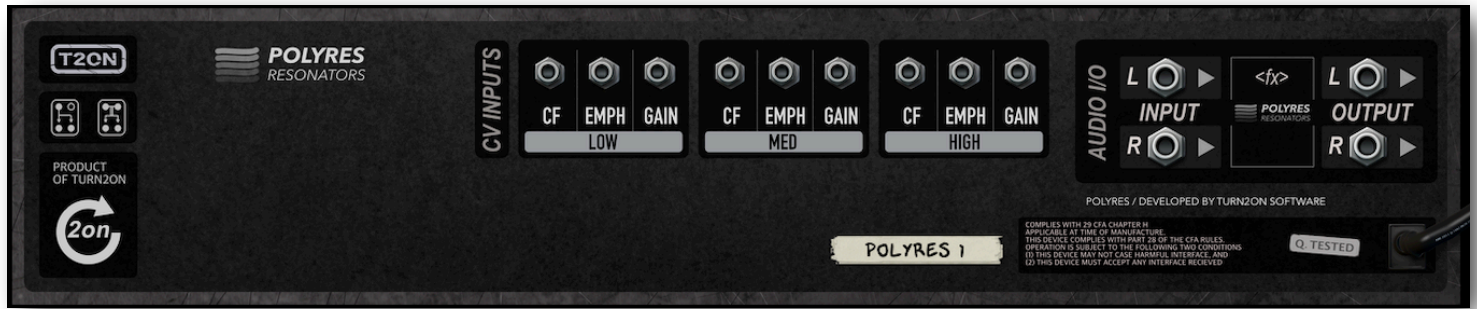
MEDIUM RESONATOR

CF	Cutoff Frequency sets the frequency of the parametric Medium-Band (300 - 1500 Hz).
EMPHASIS	Resonance parameter: Emphasis signal around the selected cutoff frequency of the Medium-Band by adding feedback from the Medium-Band filter output.
GAIN	Adjust the volume control of Medium-Band Resonator. This resonator can be muted if Gain = 0%

HIGH RESONATOR

CF	Cutoff Frequency sets the frequency of the parametric High-Band (1500 - 7500 Hz).
EMPHASIS	Resonance parameter: Emphasis signal around the selected cutoff frequency of the High-Band by adding feedback from the High-Band filter output.
GAIN	Adjust the volume control of High-Band Resonator. This resonator can be muted if Gain = 0%

REAR PANEL



AUDIO INPUT/OUTPUT:

Mono or Stereo connections for audio signals.

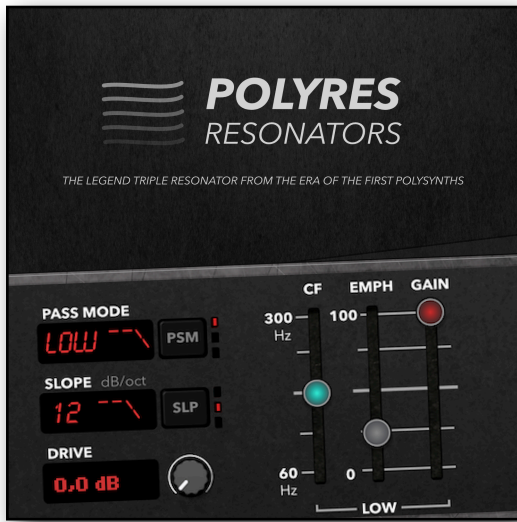
CV INPUTS

Use these CV inputs to control the main parameters by external CV source curves



SIGNAL ROUTING ICONS

This is a true stereo device



POLYRES

3-BAND RESONATOR

ReasonStudios Add-on Shop



Turn2on

Rack Extension Developer

contacts: <https://turn2on.com/>
support@turn2on.com

Thanks to all beta-testers,
Special thanks to
- MrFigg (Cameron Jeffrey)
- Philip Meadows (Despondo)

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This allows us to develop future interesting and creative effects / utilities / instruments in the Rack Extension format.*



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