



## 1. ONE CORD TO INSTRUMENT CONNECTOR

Despite being a common RJ45 connector, this is not a computer network interface. If you own a CRUMAR instrument with a «ONE-CORD TO FX» connector, you can use the proper cable to connect the two units together (cable not included). The instrument will send audio and power to the effect unit. Audio coming from the JACK input will override this audio connection, it's not possible to connect two audio sources at the same time.

Same goes for power: plugging an external PSU will override power coming from this connector. To prevent damage to your unit, do not connect two ONE-CORD devices (two effects) together.

## 2. CONTROL KNOBS

- **LEVEL:** this is the volume of the delay effect.
- **TIME:** sets a delay time between 5ms to 1second. The same time can be set using the TAP footswitch.
- **FEEDBACK:** controls how many times the delayed sound repeats.
- **FILTER:** this filter is applied to the feedback chain and can add subtle distortion to the delay tail, helping to achieve a tape-echo-like sound (high-pass - left position) or a BBD-style analog echo (low-pass - right position). It's completely bypassed when the knob is centered.
- **MOD:** adds a LFO modulation to the delay time and simultaneously affects both the speed and depth of the modulation; this doesn't work when the delay time is at the extreme settings, as there would be no range left to modulate.
- **REVERB:** adjusts the reverb amount. It emulates a classic spring reverb; both the input signal and the delay output pass through the reverb circuit.

## 3. EFFECT SELECTORS:

- **SPARKLE:** activates an «octaver» effect together with a slight chorus applied to the delay tail. Each repetition is shifted one octave up, and the following repetition is shifted an additional octave up, and so until it reaches the inaudible range, creating an interesting shimmer-like effect. By adjusting the FEEDBACK, FILTER and MOD knobs, various variations of this effect can be obtained, up to creating background pads reminiscent of a synthesizer.
- **DUCKING:** activates the typical side-chain auto-leveling effect that slightly reduces the delayed sound when the input signal is loud, and restores the delay level when the input goes silent. This helps keep the dry sound in the foreground while giving more room to the delay effect.
- **REVERSE:** activates an effect that records the delay output and plays it back in reverse every second, blending it with the dry signal and creating an intriguing «chaotic» effect similar to a record being played forward and backward alternatively.

## 4. INPUT LEVEL SELECTION

This selector sets the input gain. Since this effect provides a fully analog dry-signal path (from input to output without any digital conversion), setting the selector to «HIGH» increases the output level of both the «WET» and «DRY» signals. To obtain a 1:1 ratio, the selector must be set to «LOW».

## 5. EFFECT OUTPUT

This output provides the effect output without the dry input signal.

## 6. DRY + WET OUTPUT

This output provides both the effect output and the dry input signal mixed together.

**Crumar DoubleBack is more than just a digital delay effect; it's a perfect addition to any guitarist's pedalboard, as well as to the modern synth player's setup.**

**It can sound cold and precise like a classic digital delay, but it can also add the warmth and movement typical of an analog delay effect, whether tape or BBD. The dual filter (low-pass + high-pass) lets you choose the best "color" with a single knob; a single knob also adjusts the modulation, which can be gentle and subtle or crazy and chaotic. The presence of a spring reverb simulator, applied to both the input sound and the delay tail, adds depth and spatiality.**

**The "DUCKING" mode comes in handy when you want to give space to the dry sound without sacrificing a present and incisive delay tail.**

**The "SPARKLE" and "REVERSE" effects come into play when what you need is not just a delay but a creative tool that reconstructs sounds in a lively and unpredictable way.**

**Last but not least, the completely analog path of the dry signal from input to output helps preserve the original sound without passing through the digital domain.**



**ONE-CORD RJ45 Connector is not Ethernet. Use only compatible ONE-CORD equipment.**

This device is a professional musical instrument, it's not a toy. Please keep the instrument and the packaging bag out from the reach of small children. Do not open or modify this device, do not expose to moisture, water, direct sunlight and extreme weather, please use only the provided power supply. Do not connect it to damaged or incompatible devices, with damaged connectors, cables or power supplies. This instrument can only be used in domestic or similar environments. It may cause interferences if not correctly installed. This product complies with the european Directive 2011/65/EU on the restriction of hazardous substances. WEEE notice: the product must not be disposed of with household waste, it must be taken to the appropriate collection point.

**MADE IN ITALY BY VMConnection - VIA LUCIO VERO 2, RONCADE (TV)- [www.crumar.it](http://www.crumar.it)**



## **VERSATILE DELAY UNIT**

**FULL ANALOG DRY SIGNAL PATH  
TRUE PHYSICAL MODELING EMULATION**