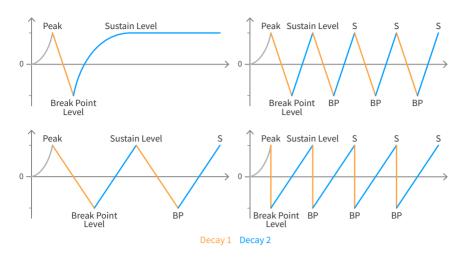


# The C15 Spring 2023 Update

As another step in the evolution of the C15 the third major firmware update is now available. It greatly expands the sound design capabilities of the instrument and improves its user interface.

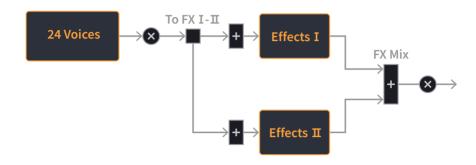
## Loop in Envelope C

With the new Loop function of Envelope C it can behave like a polyphonic LFO, that is synced to the key and can be influenced by velocity and key trackings.



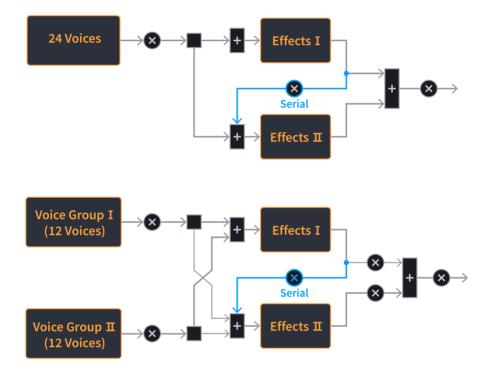
## Second Effect Group for Single Sounds

Single sounds can now also use a second group of five effects, giving access to 10 effects in a flexible routing structure.



## Serial Mode for Effect Groups

The two effect groups can now operate in parallel as well as in serial mode. These modes can be used in Single, Split and Layer Sounds.



### **Parameter Improvements**

You can now modulate almost all parameters using the Macro Controls (185 instead of 95 possible modulation targets).

The ranges of 17 parameters (e.g. Key Trackings) have been extended.

#### **New Parameters**

There is now the possibility to bypass the Feedback Mix Gate and to control the decay times of Envelope C by velocity.

The Parts of a Dual Sound and the effects groups of a Single Sound can be panned to the left and right audio output. Their signals can be completely separated.

For Split sounds, the feedback routing has been extended, so that the output signal from one Part can be an input signal for the other Part

#### **Improved Preset Search**

The Preset Search function in the graphical user interface has been completely redesigned to display all search results in a single list. Search and sorting criteria have been extended. Thus, the new search window combines many preset functions in a convenient way.



#### **Virtual Ribbons**

And as a usability improvement of the hardware, the two physical ribbons can now be switched between two pairs of virtual ribbons, giving fast access to up to four Macro Controls.

Hardware Sources and Amounts									
Pedal 1	7	7	7	7	7	7			
Pedal 2	7	۲	┌≁	$\neg$		7			
Pedal 3	7	7	┍≁	7	7	7			
Pedal 4	7	7	7	ſ	7	$\rightarrow$			
Bender V Pitchbend 0.0	0.0	0.0	50.0	0.0	0.0	0.0			
Aftertouch	0.0	0.0	0.0	0.0	0.0	0.0			
Ribbon 1 43.6 cc 24/56	<b>++</b>	_+	Ļ		_+				
Ribbon 2		Ļ	₽	Ļ	Ļ	Ļ			
Ribbon 3	<b>•</b>	_+	Ļ		Ļ	_+			
Ribbon 4	<b></b>	Ţ	Ļ			<b>↓</b>			
	Macro Control								

Macro Control								
A Cutoff 43.6	B Resonance	C Pitch Bend	D Sust Ped	E Rate	<b>F</b> Amt 92.0			
Smoothing 12.1	Smoothing 12.1	Smoothing	Smoothing 12.1	Smoothing 20	Smoothing 20			





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