



The VST Editor for your Korg® Electribe MX

User Manual v1.0

# Introduction

Thank you for choosing our product, we wish you lot of fun using it.

## What is EMX ?

The EMX, also known as « Electribe MX » is a hardware audio workstation designed by Korg. It can generate synthesizer and drum sounds, and can record patterns and songs. Go to « Korg » web site for more information.

## What is DirectEMX for?

DirectEMX is a VSTi MIDI plug-in that allows you to control in real-time every sound shaping parameters of the Korg EMX in your DAW.

As a benefit of the host integration, DirectEMX provides an incredible feature set including total recall and parameters automation, combined with the power, stability and punchy sound of the EMX.

You must own the Korg EMX to use DirectEMX.

## DirectEMX Features

- Full parameters control and automation from a VST host software (5 Synth parts and 9 drum parts)
- A clean and helpful interface specially designed for the EMX
- Total recall : The whole state of the EMX is saved in the DAW project and can be loaded back.
- System-Exclusive dumps : Get all the patterns of your EMX in the DirectEMX interface, then modify and reverse - engineer existing patches easily.

# Installation & Requirements

## Installation

To install DirectEMX on your system, simply copy the « DirectEMX.dll » file in your VSTPlugins directory (default path is « C:\Program Files\VSTPlugins »)

## Requirements

PC minimum requirements:

- Pentium III 800 Mhz
- 512 MB RAM
- Windows XP/Vista/7
- MIDI interface
- VST 2.0 compliant host

MAC: Not supported yet

# Host compatibility

DirectEMX mostly rely on MIDI message. You may encounter some compatibility issues with some hosts that does not manage MIDI messages properly.

Here is our non-exhaustive compatibility chart, you may get the last updated version at [www.directsynth.com](http://www.directsynth.com) (support section).

Host\Feature	Integration	Controller	Dumps
Cubase SX v3 v4 v5	✓	✓	✓
FL Studio v8 v9	✓	Needs manual mapping	✗
Sonar v8	✓	✓	✗
Live v8	✓	✓	✗
Acid pro v7	✓	✓	✗

- Integration : DirectEMX is fully functional to control, automate and recall all the parameters of the EMX.
- Controller : The Korg EMX can be used as a midi controller and DirectEMX interface is automatically updated when a parameter value changes. Also EMX internal motion sequences can be seen on DirectEMX interface.
- Dumps : It is possible to dump pattern banks (or just current pattern) from the EMX by receiving MIDI Sys-Ex message in DirectEMX.

# EMX Configuration

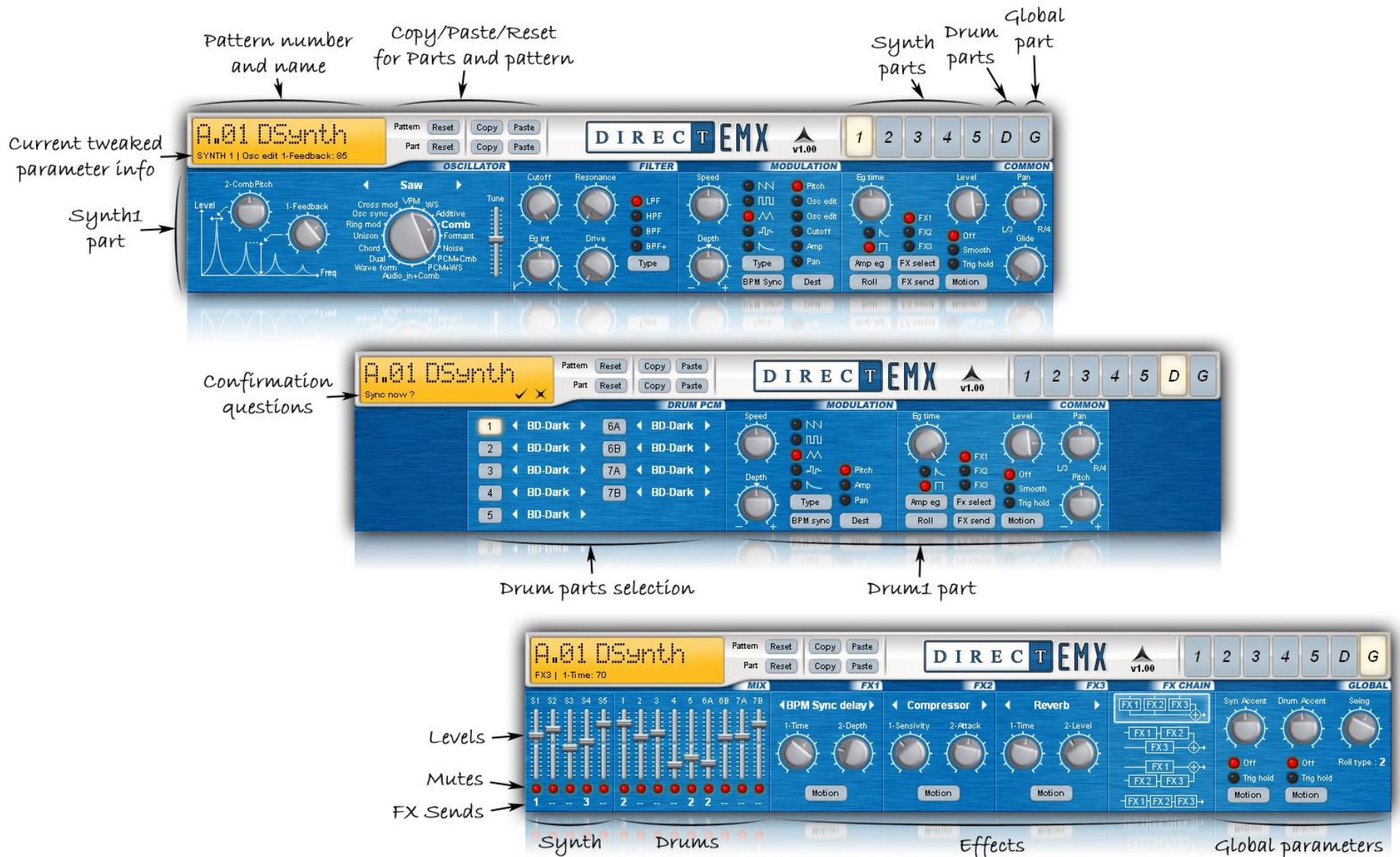
As DirectEMX relies on MIDI communication, your EMX must be properly connected and configured:

- Use a MIDI cable to connect the MIDI OUT connector of your sound card to the EMX's MIDI IN connector.
- Use a MIDI cable to connect the MIDI IN connector of your sound card to the EMX's MIDI OUT connector.

Make sure the MIDI configuration of your EMX is set to the factory settings: (Refer to the MIDI mode section of your EMX manual)

Parts	Channels	Synth Parameter	CC	Synth Parameter	CC	FX1 Parameter	CC
Synth1	1	Osc type	CC#70	Roll	CC#85	FX Type	CC#12
Synth2	2	Osc Edit1	CC#14	Fx send	CC#91	FX Edit1	CC#92
Synth3	3	OscEdit2	CC#15	Fx select	CC#81	FX Edit2	CC#93
Synth4	4	Glide	CC#5	Mod type	CC#87	FX Motion Seq sw	CC#20
Synth5	5	Filter type	CC#83	Mod depth	CC#90	<b>FX2 Parameter</b>	<b>CC</b>
Drums	10	Filter cutoff	CC#74	Mod speed	CC#89	FX Type	CC#13
		Filter resonance	CC#71	Mod dest	CC#88	FX Edit1	CC#94
		Filter Eg int	CC#79	Mod bpm sync	CC#82	FX Edit2	CC#95
		Filter drive	CC#84	Motion seq sw	CC#80	FX Motion Seq sw	CC#21
		Level	CC#7			<b>FX3 Parameter</b>	<b>CC</b>
		Pan	CC#10			FX Type	CC#24
		Eg Time	CC#75	<b>Global Parameter</b>	<b>CC</b>	FX Edit1	CC#25
<b>MIDI Filter</b>	<b>Value</b>	Amp Eg	CC#86	FX Chain	CC#23	FX Edit2	CC#26
PCEN	0000					FX Motion Seq sw	CC#22

# DirectEMX Interface



# How to use with Cubase (1/2)

1. Add « DirectEMX » VST by using the « Devices->VST Instruments » menu (or F11 key)



2. Add a MIDI Track and set « IN » to « DirectEMX », and « OUT » to your midi interface where the EMX is connected (« Multiface Midi » in our case). Also set « Channel » to « ANY ».



This midi track will send midi from DirectEMX to the EMX. We have renamed this midi track to « EMX Send ».

3. You should now be able to control the EMX from DirectEMX. Confirm the « Sync now? » question from DirectEMX interface. This will transmit the current pattern to the EMX.



On your EMX select the first synth part. Now change the filter type of the first synth part from DirectEMX. You should see that it is also changing on the EMX. If not, check your midi interface and cables. Also the midi track has to be selected with the record button enabled (red).



# How to use with Cubase (2/2)

4. Now we are going to enable the control of DirectEMX from the EMX. Add another MIDI track. Set « In » to the MIDI interface where the EMX is connected (« Multiface Midi » in our case). Set « Out » to « DirectEMX ». Set « Channel » to « ANY ». Rename this track to « EMX Receive »



5. Now enable the record buttons for both midi tracks.

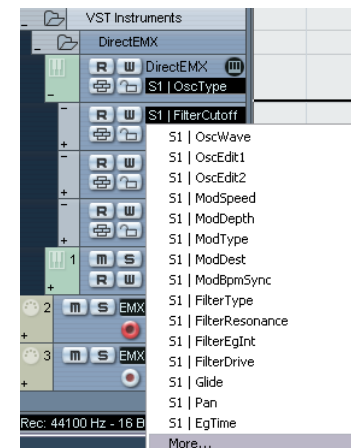


**IMPORTANT :** Always make sure these 2 buttons are enabled, else the midi sync with the EMX will not work.

Turn a knob on the EMX, it moves in the DirectEMX interface! (make sure you are working on the same part between the EMX and DirectEMX, else you won't see the visual feedback).

Now you should normally be able to control the EMX from DirectEMX and vice-versa.

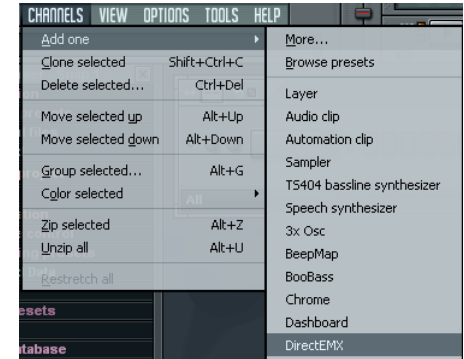
6. For automation expand the « VST Instruments » and « DirectEMX » tracks and select one or more parameters to automate.



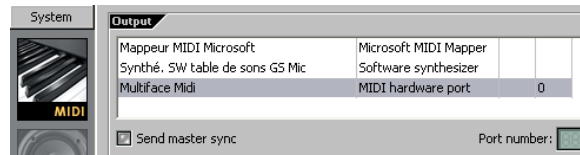


# How to use with FL Studio (1/2)

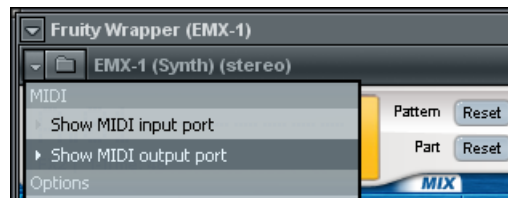
1. Add « DirectEMX » VST by using the « Channels->Add one » menu.  
If « DirectEMX » is not in the list, use the « More... » item to add new VST instruments. (refer to your FL Studio manual).



2. In Options->MIDI settings, associate a port number to the midi interface where the EMX is connected.  
« Multiface Midi » in our case, and we have selected port « 0 ».



3. In DirectEMX left menu, select « Show MIDI output port », then on the right select port « 0 »



Now DirectEMX should be able to control the EMX. Change the filter type of the first synth part in DirectEMX, it should also change on the EMX (make sure the first synth part is also selected on the EMX).

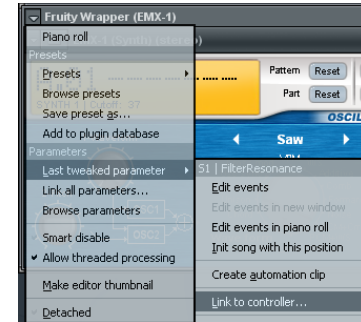


# How to use with FL Studio (2/2)

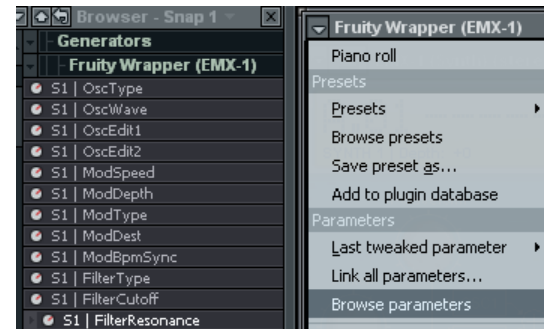
4. You can also use the EMX to control DirectEMX but this has to be configured manually. This is due to FL Studio midi parameters management.

For example:

- Move the Synth 1 part Cutoff knob on DirectEMX
- On DirectEMX left menu, select « Last tweaked parameter » then « Link to controller ».
- Now turn the cutoff knob on your EMX
- You should see it moving on the DirectEMX interface.



5. For parameter automation use DirectEMX left menu, then select « Browse parameters ». All the parameters will show up on the left list.



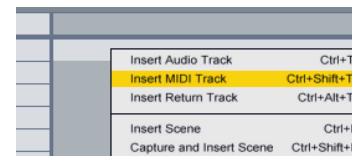
6. If you want to send notes to each part, we suggest not to use the « Midi out » plugin provided with fl studio because it will send level and pan midi messages. Instead you can find on the web free vst « midi out» plugins for that.

# How to use with Live (1/2)

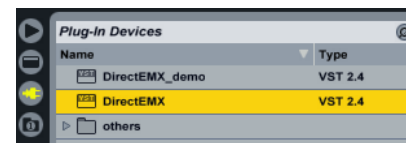
1. In « Options->Preferences->MIDI » make sure your midi interface is set to « ON » for tracks Input/Output. In our case, the midi interface where the EMX is connected is « Multiface Midi »



2. Create 2 midi tracks. Rename the first one to « DirectEMX » and the other one to « EMX Send ».

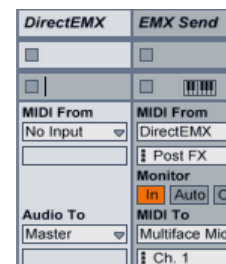


3. In the left browser select the Plug-in tab and drag&drop DirectEMX to the first MIDI track.



4. In the DirectEMX track, set « Midi from » to « No input »  
In The EMX Send track, set « Midi from » to « DirectEMX »,  
Monitor « IN » and « MIDI to » to your midi interface (multiface in our case).

You should now be able to control the EMX from DirectEMX. Note that on Live the channel is set in the midi track, not in DirectEMX. To control drum parts select channel 10.



You can try to change the Synth 1 part filter type from DirectEMX, it should change on the EMX. (Select channel 1 in Live and select the synth 1 part in the EMX).

# How to use with Live (2/2)

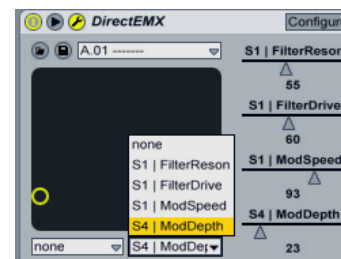
5. If you want to control DirectEMX from the EMX, add a third MIDI track, rename it « EMX Receive »  
Set « MIDI from » to your midi interface (Multiface midi in our case),  
Set Monitor to « IN » and « MIDI To » to DirectEMX.

Turn the Cutoff knob of the Synth 1 part from the EMX, it should move in the DirectEMX interface.

DirectEMX	EMX Send	EMX Receive
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MIDI From No Input	MIDI From DirectEMX	MIDI From Multiface Mid
	Post FX	All Channel
Monitor In Auto Off	Monitor In Auto Off	Monitor In Auto Off
Audio To Master	MIDI To Multiface Mid	MIDI To DirectEMX
	Ch. 1	Track In

Note: In the EMX Receive track, change the « Track In » parameter to select the channel you want to use.

6. For parameters automation, first move the desired parameter in DirectEMX interface, then it will appear in the parameters list.



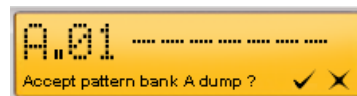
# MIDI Dumps

MIDI Dump is a feature that makes it possible to get the whole EMX content in DirectEMX. The 256 patterns can be dumped by banks of 64 (A, B, C, D).

Once dumped, the content of the patterns are available in DirectEMX. This enables the user to analyze or modify them easily. Also the patterns can be saved and retransmitted to the EMX.

This feature is not available on every host software. You can refer to the host compatibility chart for more information.

1. Open your host software and configure a track so that MIDI is sent to DirectEMX
2. On the EMX, press the MIDI Key (the key will light)
3. Hold down the shift key and press step key 12 (MIDI utility)
4. The value display will indicate « Filter ». Turn the dial to change this to « Dump », and press key 12
5. Turn the dial to select the data you want to transmit (PtBnkA, PtBnkB, PtBnkC or PtBnkD)
6. Press key 12 once again to transmit the data.
7. Wait about 2 minutes, then you should see the « Accept pattern bank » question on DirectEMX



8. Once accepted you will have access to the patterns from the patch list of the plugin.

# Contact

- For any news or updates : [www.directsynth.com](http://www.directsynth.com)
- For any questions or support : [support@directsynth.com](mailto:support@directsynth.com)