

## **Introduction :**

In this guide, we will show you how to use Cross DJ as a VST within a DAW. In order to illustrate each step, we will use Ableton Live, but all the steps shown in this example should be replicable inside any DAW

A table listing all the MIDI actions with their corresponding MIDI events can be found at the end of this document.

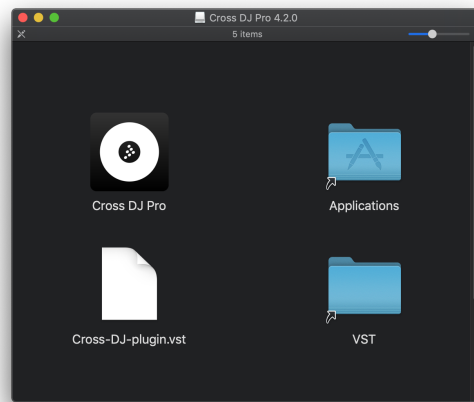
## **Summary :**

- 1) Loading Cross DJ as a VST**
- 2) Recording MIDI from Cross DJ VST**
- 3) Controlling Cross DJ VST with MIDI**
- 4) Re-routing the MIDI Recordings to Cross DJ VST**
- 5) MIDI actions table**



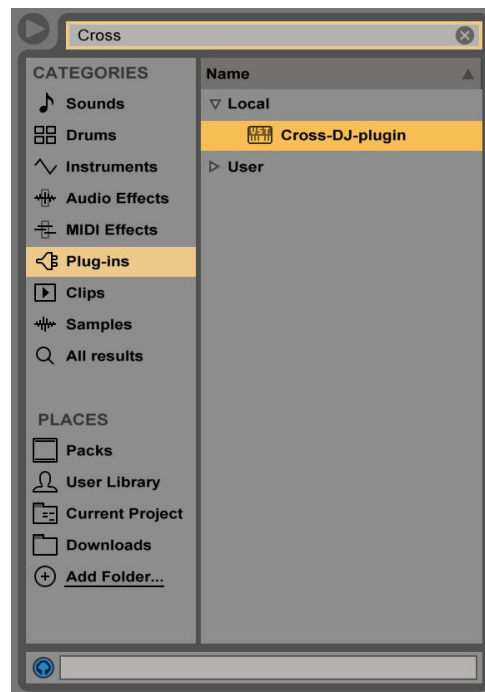
## 1) Loading Cross DJ as a VST :

**Step one** : When installing Cross DJ, you will have the opportunity to install the VST at the same time. On a mac, simply drag and drop the “Cross-DJ-plugin.vst” file into the VST folder.



*Fig 1 : Installation window*

**Step 2** : Open your DAW and browse the explorer to find the VST. In Ableton Live it will be found under Plug-ins/Local/



*Fig 2 : Browsing to find the VST*

Drag and drop the VST into your session to load the VST. It will be added in its own track. This track will be now referred as the VST track



**Step 3 :** Inside Cross DJ, make sure the VST MIDI mapping is selected.

To do so, open the interface VST. In Ableton, select the track containing the VST, and click on the wrench tool in the top bar of the component representing the VST.

In the interface, go to Preferences/MIDI and select the “VST” MIDI mapping.

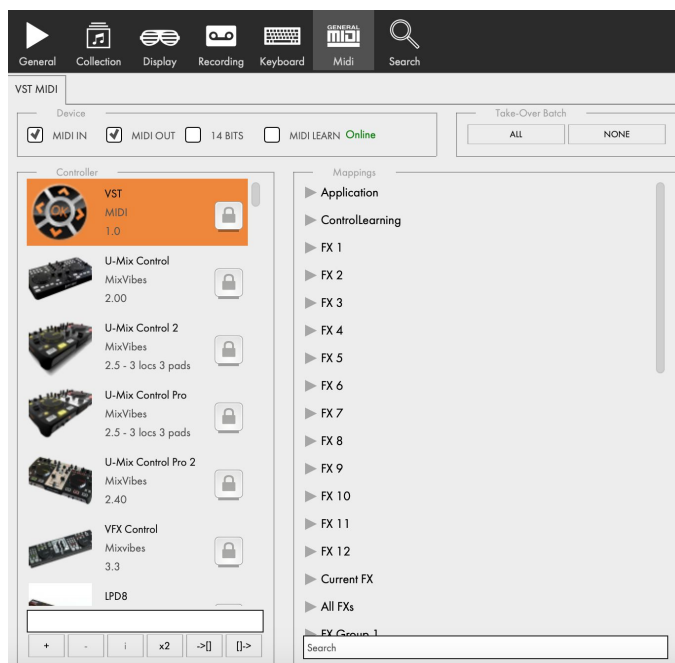


Fig 3 : Selecting the VST Mapping

## 2) Recording MIDI from Cross DJ VST :

**Step 1 :** Load the VST in one track, and select the VST MIDI mapping from Cross DJ, as shown in the previous section.

**Step 2 :** Create an empty MIDI Track. This track will now be referred as the record track. Route the MIDI in of the track to Cross DJ VST’s MIDI output. To do so in Ableton Live, under “MIDI From”, select the VST track. In the selection box underneath, select Cross-DJ-Plugin. The routing of your tracks should look like the screenshot below.

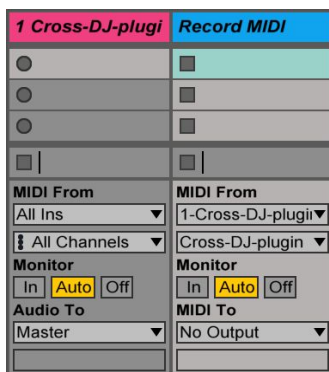


Fig 4 : Routing for MIDI Recording



**Step 3 :** Move to the Arrangement view, record arm the record track, and start a recording. You can open Cross DJ VST and use it as you would normally to perform a DJ set. The MIDI events sent by Cross DJ will be recorded onto the track you have created.

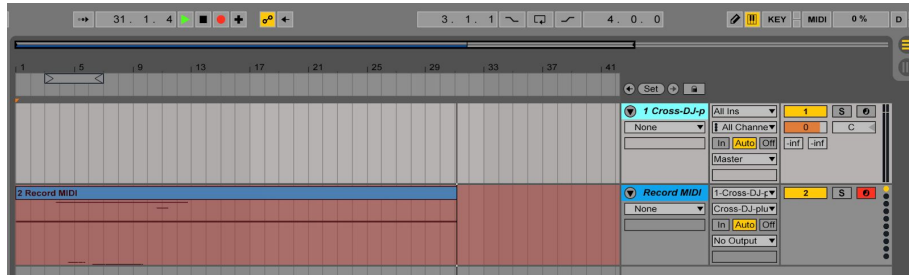


Fig 5 : A set being recorded in MIDI

**Step 4 :** Once you have recorded your set, you can visualize and modify the MIDI events that summarize your actions in the software. You can track the knobs and sliders values by showing the envelopes and navigating through the different CCs.

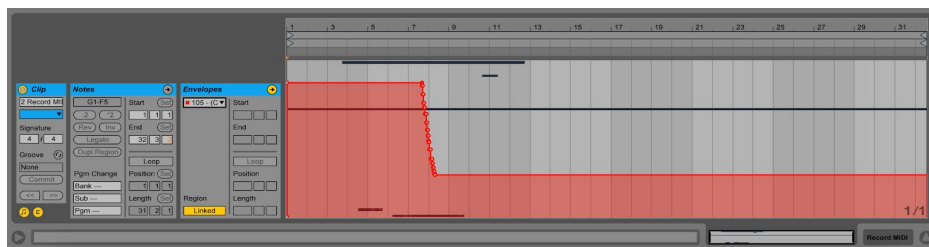


Fig 6 : A recorded MIDI clip

### 3) Controlling Cross DJ VST with MIDI :

**Step 1 :** Create a new MIDI Track. This track will now be referred as the control track. Route the MIDI output of the control track to the VST track. To do so in Ableton, under “MIDI To” select the track VST track. In the box underneath, select “1-Cross-DJ-plugin”.

**Step 2 :** In your track containing the VST, under “MIDI From”, select your new MIDI track. Your MIDI routing should look like this :

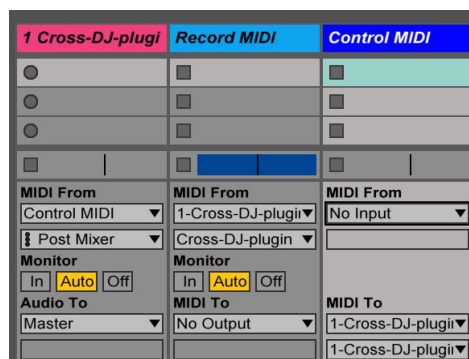
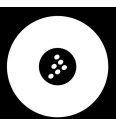


Fig 6 : Routing for control track



#### 4) Re-routing the MIDI Recordings to Cross DJ VST :

Once you have done all the previous steps, you can also route your MIDI to feed Cross DJ with the previously recorded MIDI.

**Step 1 :** route the output of the record track to the input of the control track. In Ableton live, in your control track, under “Midi From”, choose your record track.

**Step 2 :** on your control track, activate the Monitor In.

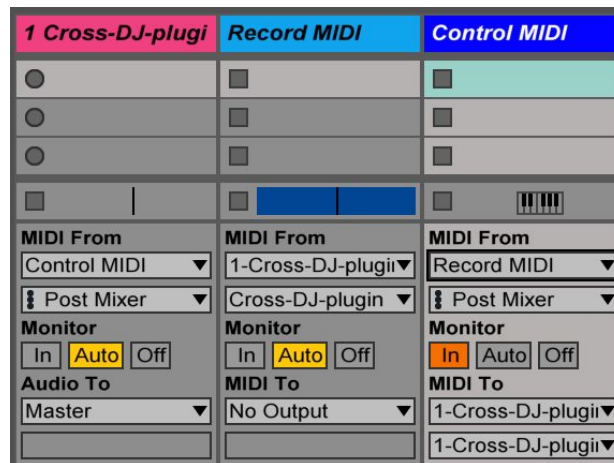


Fig 7 : Routing for controlling the VST with its recorded MIDI

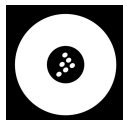
You can now replay the recorded MIDI from Cross DJ to send the recorded actions to the VST.

#### 5) MIDI actions table

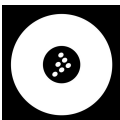
Feature	MIDI number (hex)	MIDI number (decimal)	MIDI type	MIDI note (official)	MIDI note (Ableton)
FX Amount 0xa (Player B FX 3)	0x62	98	CC	MIDI Ctrl 098	MIDI Ctrl 098
FX Amount 0x9 (Player A FX 3)	0x63	99	CC	MIDI Ctrl 099	MIDI Ctrl 099
FX Amount 0x6 (Player B FX 2)	0x64	100	CC	MIDI Ctrl 100	MIDI Ctrl 100
FX Amount 0x5 (Player A FX 2)	0x65	101	CC	MIDI Ctrl 101	MIDI Ctrl 101
FX Amount 0x2 (Player B FX 1)	0x66	102	CC	MIDI Ctrl 102	MIDI Ctrl 102



FX Amount 0x1 (Player A FX 1)	0x67	103	CC	MIDI Ctrl 103	MIDI Ctrl 103
Filter B	0x68	104	CC	MIDI Ctrl 104	MIDI Ctrl 104
Treble Gain B	0x69	105	CC	MIDI Ctrl 105	MIDI Ctrl 105
Mid Gain B	0x6a	106	CC	MIDI Ctrl 106	MIDI Ctrl 106
Bass Gain B	0x6b	107	CC	MIDI Ctrl 107	MIDI Ctrl 107
Mixer Gain B	0x6c	108	CC	MIDI Ctrl 108	MIDI Ctrl 108
Mixer Volume B	0x6d	109	CC	MIDI Ctrl 109	MIDI Ctrl 109
Filter A	0x6e	110	CC	MIDI Ctrl 110	MIDI Ctrl 110
Treble Gain A	0x6f	111	CC	MIDI Ctrl 111	MIDI Ctrl 111
Mid Gain A	0x70	112	CC	MIDI Ctrl 112	MIDI Ctrl 112
Bass Gain A	0x71	113	CC	MIDI Ctrl 113	MIDI Ctrl 113
Mixer Gain A	0x72	114	CC	MIDI Ctrl 114	MIDI Ctrl 114
Mixer Volume A	0x73	115	CC	MIDI Ctrl 115	MIDI Ctrl 115
Crossfader	0x74	116	CC	MIDI Ctrl 116	MIDI Ctrl 116
Brake Time B	0x75	117	CC	MIDI Ctrl 117	MIDI Ctrl 117
Start Time B	0x76	118	CC	MIDI Ctrl 118	MIDI Ctrl 118
NeedleSearch B	0x77	119	CC	MIDI Ctrl 119	MIDI Ctrl 119
PitchValue B	0x78	120	CC	MIDI Ctrl 120	MIDI Ctrl 120
Brake Time A	0x79	121	CC	MIDI Ctrl 121	MIDI Ctrl 121
Start Time A	0x7a	122	CC	MIDI Ctrl 122	MIDI Ctrl 122
NeedleSearch A	0x7b	123	CC	MIDI Ctrl 123	MIDI Ctrl 123
PitchValue A	0x7c	124	CC	MIDI Ctrl 124	MIDI Ctrl 124
Sampler Pad 8 B	0x16	22	Note	A#0	A#-1
Sampler Pad 7 B	0x17	23	Note	B0	B-1
Sampler Pad 6 B	0x18	24	Note	C1	C0
Sampler Pad 5 B	0x19	25	Note	C#1	C#0
Sampler Pad 4 B	0x1a	26	Note	D1	D0
Sampler Pad 3 B	0x1b	27	Note	D#1	D#0
Sampler Pad 2 B	0x1c	28	Note	E1	E0
Sampler Pad 1 B	0x1d	29	Note	F1	F0
Sync with master B	0x1e	30	Note	F#1	F#0
Sampler Pad 8 A	0x1f	31	Note	G1	G0
Sampler Pad 7 A	0x20	32	Note	G#1	G#0
Sampler Pad 6 A	0x21	33	Note	A1	A0
Sampler Pad 5 A	0x22	34	Note	A#1	A#0
Sampler Pad 4 A	0x23	35	Note	B1	B0



Sampler Pad 3 A	0x24	36	Note	C2	C1
Sampler Pad 2 A	0x25	37	Note	C#2	C#1
Sampler Pad 1 A	0x26	38	Note	D2	D1
Sync with master A	0x27	39	Note	D#2	D#1
FX 0xa OnOff	0x28	40	Note	E2	E1
FX 0x9 OnOff	0x29	41	Note	F2	F1
FX 0x6 OnOff	0x2a	42	Note	F#2	F#1
FX 0x5 OnOff	0x2b	43	Note	G2	G1
FX 0x2 OnOff	0x2c	44	Note	G#2	G#1
FX 0x1 OnOff	0x2d	45	Note	A2	A1
Mixer Input Mode B	0x2e	46	Note	A#2	A#1
Mixer Cue Monitor B	0x2f	47	Note	B2	B1
Mixer Filter OnOff B	0x30	48	Note	C3	C2
Mixer Treble Kill B	0x31	49	Note	C#3	C#2
Mixer Mid Kill B	0x32	50	Note	D3	D2
Mixer Bass Kill B	0x33	51	Note	D#3	D#2
Mixer Mute B	0x34	52	Note	E3	E2
Mixer Input Mode A	0x35	53	Note	F3	F2
Mixer Cue Monitor A	0x36	54	Note	F#3	F#2
Mixer Filter OnOff A	0x37	55	Note	G3	G2
Mixer Treble Kill A	0x38	56	Note	G#3	G#2
Mixer Mid Kill A	0x39	57	Note	A3	A2
Mixer Bass Kill A	0x3a	58	Note	A#3	A#2
Mixer Mute A	0x3b	59	Note	B3	B2
Keylock B	0x3c	60	Note	C4	C3
Slip Mode B	0x3d	61	Note	C#4	C#3
Vinyl Mode B	0x3e	62	Note	D4	D3
Reverse B	0x3f	63	Note	D#4	D#3
Locator 8 B	0x40	64	Note	E4	E3
Locator 7 B	0x41	65	Note	F4	F3
Locator 6 B	0x42	66	Note	F#4	F#3
Locator 5 B	0x43	67	Note	G4	G3
Locator 4 B	0x44	68	Note	G#4	G#3
Locator 3 B	0x45	69	Note	A4	A3
Locator 2 B	0x46	70	Note	A#4	A#3
Locator 1 B	0x47	71	Note	B4	B3
BendDown B	0x48	72	Note	C5	C4



BendUp B	0x49	73	Note	C#5	C#4
SyncWithMaster B	0x4a	74	Note	D5	D4
AutoLoop OnOff B	0x4b	75	Note	D#5	D#4
Loop OnOff B	0x4c	76	Note	E5	E4
CueStateOutput B	0x4d	77	Note	F5	F4
PlayPause B	0x4e	78	Note	F#5	F#4
Keylock A	0x4f	79	Note	G5	G4
Slip Mode A	0x50	80	Note	G#5	G#4
Vinyl Mode A	0x51	81	Note	A5	A4
Reverse A	0x52	82	Note	A#5	A#4
Locator 8 A	0x53	83	Note	B5	B4
Locator 7 A	0x54	84	Note	C6	C5
Locator 6 A	0x55	85	Note	C#6	C#5
Locator 5 A	0x56	86	Note	D6	D5
Locator 4 A	0x57	87	Note	D#6	D#5
Locator 3 A	0x58	88	Note	E6	E5
Locator 2 A	0x59	89	Note	F6	F5
Locator 1 A	0x5a	90	Note	F#6	F#5
BendDown A	0x5b	91	Note	G6	G5
BendUp A	0x5c	92	Note	G#6	G#5
SyncWithMaster A	0x5d	93	Note	A6	A5
AutoLoop OnOff A	0x5e	94	Note	A#6	A#5
Loop OnOff A	0x5f	95	Note	B6	B5
CueStateOutput A	0x4d	77	Note		
PlayPause A	0x61	97	Note	C#7	C#6

