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CS Series MIDI Kit User Manual

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CS Series Midi Kit

Congratulations on your purchase of the LaLaLand CS Series Midi Kit.
The CS Series Midi Kit for the Yamaha CS Series widely expands the capabilities of the synthesizer and brings it closer to modern production standards.

CS Series MIDI Kit features:

• MIDI IN/OUT
• Independent filter control
• For the Dual filter CS Synths , filter controls can be linked
• Single Filter Control for the CS5 -CS10- CS15D and CS20M
• Filter can be controlled by Modwheel, Breath, CC 74, Aftertouch or Velocity
• Choice between normal CC and our 12 Bit 4094 value filter control
• High, Low, Last Note Priority
• Midi Channel Omni or 1-16
• Seperate Env Trigger with sustain Via midi Note for CS5 - CS10 - CS15 - CS30L
• Envelope trigger pulse for the CS30
• Sequencer Trigger for the CS 30 via midi Note with note length control
• Hz/V outputs via the Control Volt and Trigger outputs
• Control filter on both channels on the CS15D
• Control filter on each voice of the CS40M
• All settings are either made from the keyboard or the free standalone app

Settings

To enter Settings, Hold C1 while switching the synth On.
To Exit and save settings push C1 again.

MIDI Channel Select	C3#-F4 = OMNI Ch. 1-16
Local On	F#4
Local Off	G4
Low note priority	G#4
Last note priority	A4
High note priority	A#4
Filter A	B4 = CC#1 MOD Wheel
	C5 = CC#2 Breath
	C#5= CC#74 Cutoff
	D5 = Velocity
	D#5 = Aftertouch

Only applicable to CS15, CS15D, CS40M and CS30/L

Filter B	E5 = CC#1 MOD Wheel
	F5 = CC#2 Breath
	F#5= CC#74 Cutoff
	G5 = Velocity
	G#5 = Aftertouch
Filter independent	A5
Filter A→B	A#5
Filter B→A	B5

Reset/Default	C6

Default settings: Midi channel/Omni - Filter A/Mod wheel - Filter B/Breath - Local/On - Note priority/High - Filter Independent*
except on CS40m - Filter set to A-B - for independent control of each voice set to "independent" then Voice A is controlled by Mod Wheel and Filter B by Breath.

Note: while in Settings Mode the Synth remains muted
After exiting/saving, synth returns to its normal state.

See settings chart on last page.

Filter Control

Filters can be controlled via MIDI using either the CC#01 (MOD Wheel), CC#2 (Breath) CC#74 (Cutoff) Aftertouch or Velocity.
For the Dual Filter CS synths filter controls can be independent or linked A→B or B→A.

NOTE: 12 bit filter control is possible via Mod and Breath via the CC menu in Reaper (More CC 0-31 14BIT) or using our plugin.

Optional: Filter wires must be soldered

Envelope Trigger

On the CS5, CS10 and CS15 the envelope can be independently triggered via midi note C2. Timing and duration(Sustain) can be controlled.

On the CS5 - C2 will always trigger the envelope if used.
On the CS10 and CS15 you need to set the envelope to EXT and C2 will then trigger the envelope.

On the CS30 - C2 triggers the Sequencer and C#2 triggers the ENV.
C2# Envelope trigger on the CS30 will only trigger env start and not sustain.
Set the Trigger level and Signal level to 12'o clock.

Optional: Trigger wire must be soldered.

Sequencer Trigger CS-30

Sequencer can be independently triggered via midi note C2.
Timing and duration can be controlled.

Set the clock to manual and you can now control the sequencer from your DAW.
Set envelopes to Seq and Osc to Seq for the sequencer to play the synth.

Optional: Seq Trigger wire must be soldered.

GATE TIME

These synths were never meant to be played as fast as MIDI and therefore there needs to be a very slight gap between consecutive notes **(Only if it's the same note)** for retriggering to take place. This only appears when using a DAW to play midi and there is "no gap" between the note Off and the next note On. When playing different notes this is not needed.

This does not affect live playing at all as no human can switch notes that fast!

This gap varies slightly between synths and might not be an issue at all on the CS5, CS10, CS15, CS30/L and CS15D, in our tests this varied between Reaper and Ableton. The CS20M and 40M do need a tiny gap between consecutive notes (if it is the same note) due to slightly different circuitry.

This applies to both notes and the envelope trigger, CS30 sequencer has no issue with consecutive notes with no gap. Speed is not an issue if there is this tiny gap between a note off and a note on!

We have found that using the "note length" plugin in Ableton and setting it to 98% will take care of this.
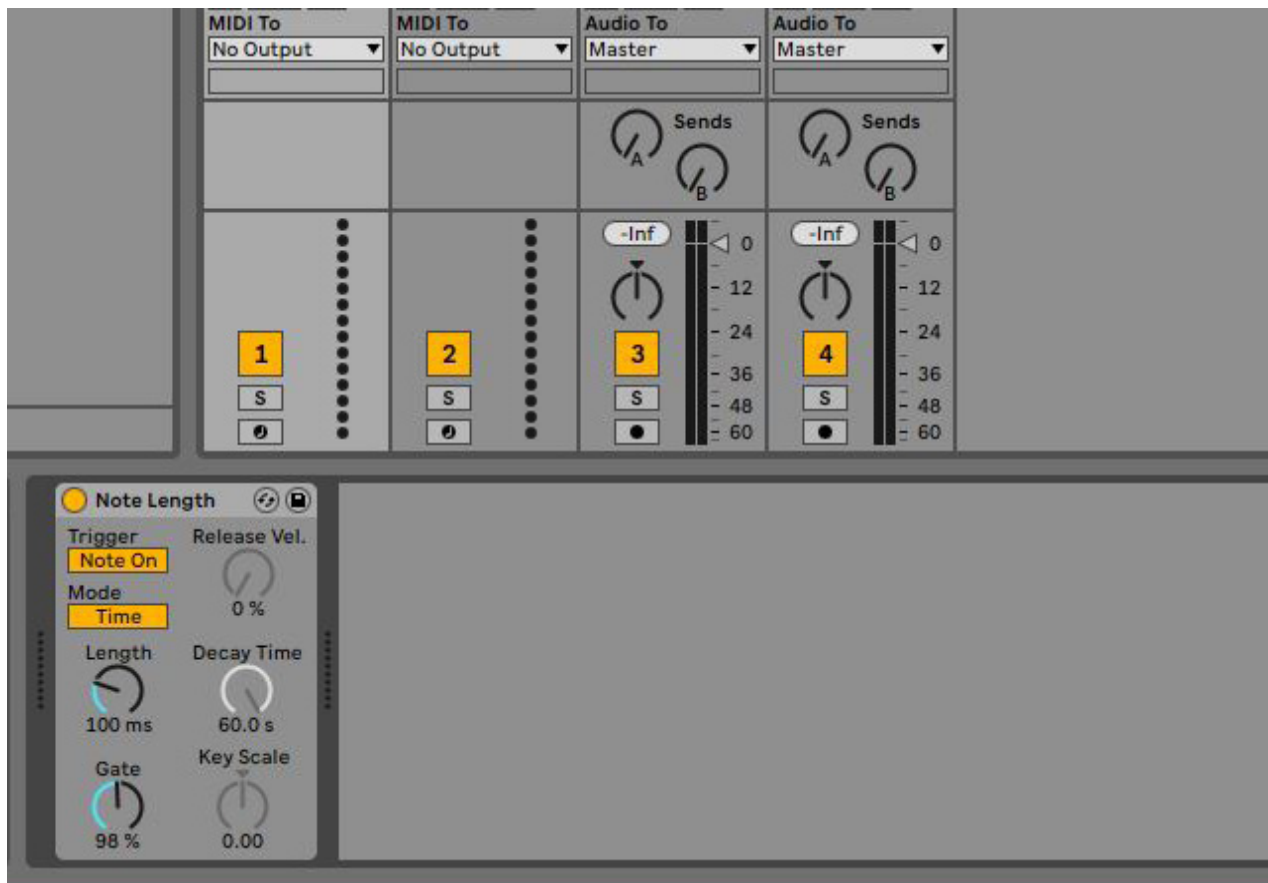
CS Series settings app

The settings app allows you to change and save settings on your synth.

Select MIDI interface, hit the Fetch Button to get the settings from your synth. Change settings , then hit Send and your settings have now been transferred to your synth (if settings have been changed and not transferred the Send LED will blink until a send has been initiated.

When you hit "Fetch" the app will autodetect which synth is connected and display the appropriate interface.
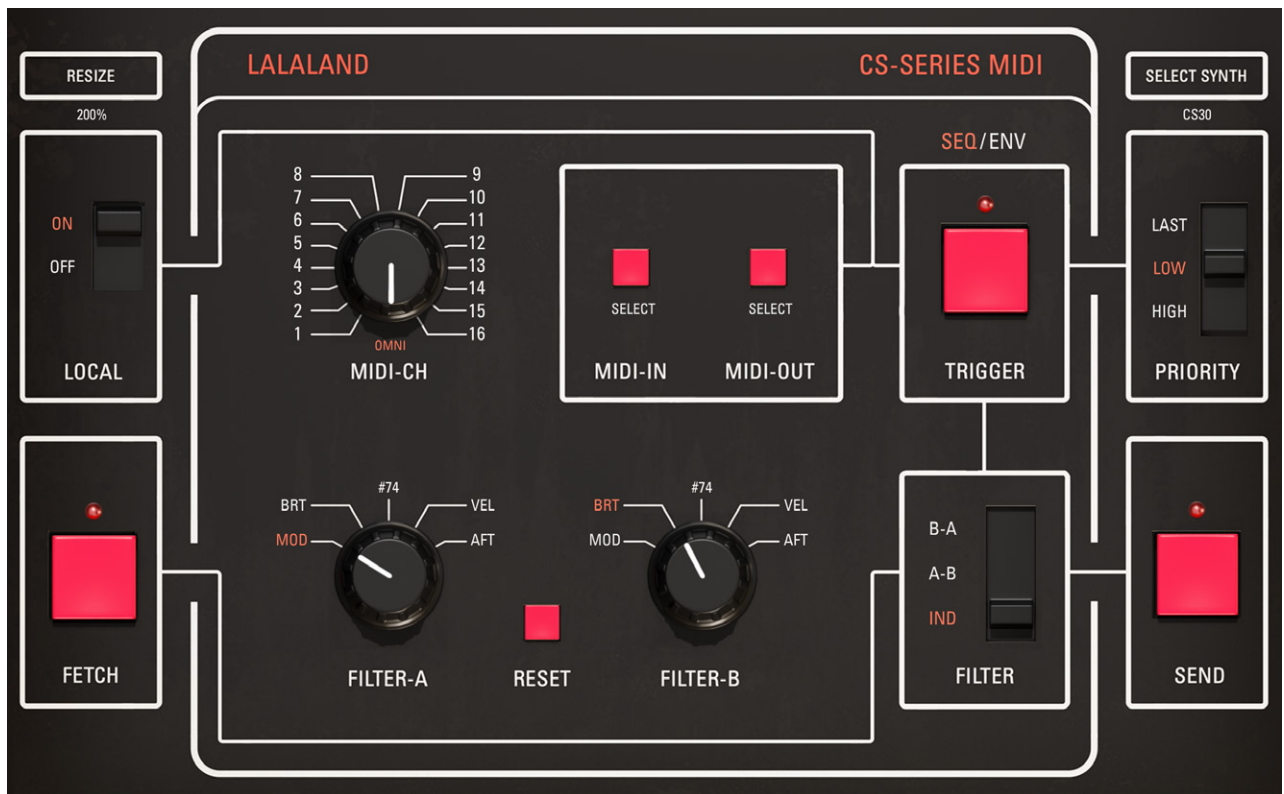
CS Series modulation VST plugin

This plugin is made to work in conjunction with the CS series MIDI Kit and will work for all synths in that collection. It gives you two temposynced LFO/envelopes for the CS series of synths.

You can draw in your own LFO/Envelope shapes for each filter (where applicable) or switch over to the stepper and draw in your own steps (up to 64 steps).
When using the stepper you have the option of using the SMOOTHING parameter to ease up on the stepped transitions.

You can set the modulator to temposync, freerunning and when in either mode you can select to RUN, RETRIGGER or ONE SHOT.

Since the CS MIDI KIT gives you the option of selecting a controller for each filter you can set any of these as the destination for each modulator.
In addition you can set the destination to HI-RES and use our 12bit/4096 values CC for ultra smooth modulations.

Feature List:
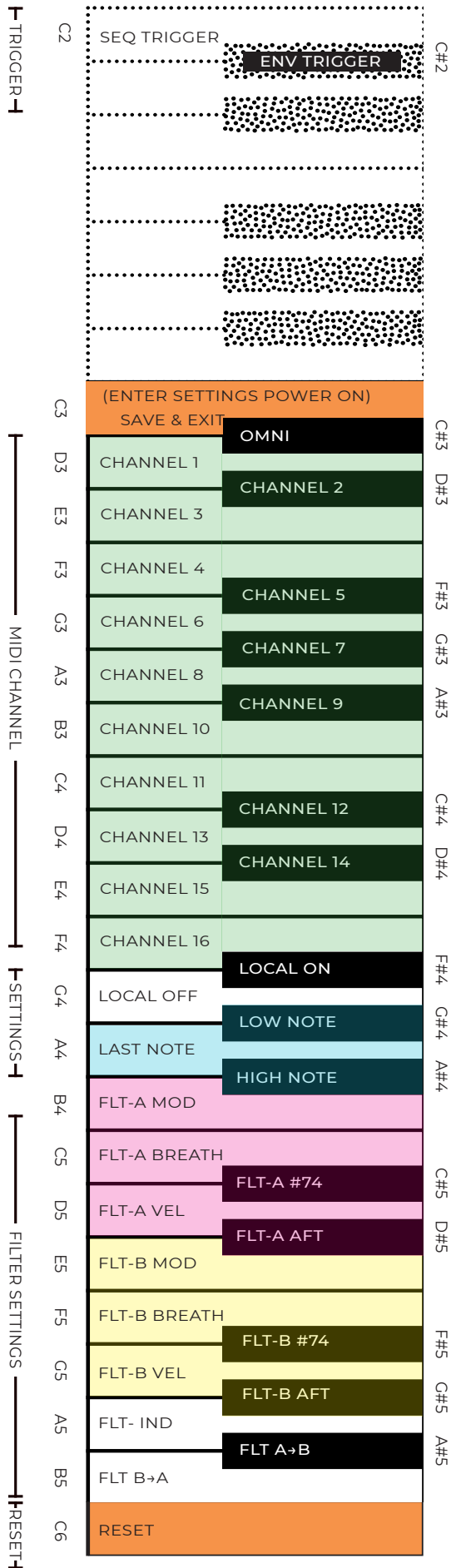· 2 Temposynced LFO/Envelope drawable shapes
· 2 Temposynced 64 step drawable shapes
· Run and Retrigger Modes
· Nudge forwards/backwards
· Randomize shape
· Invert and flip shape - invert is useful when switching to Hi-Pass.
· Smoothing option for the stepper
· A selection of preset shapes
· A large selection of presets

[To learn more about our plugin for the CS series - click here](#)

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CS-SERIES MIDI

CS-30 SETTINGS

Note	Label		Note
C2	SEQ TRIGGER		
		ENV TRIGGER	C#2
C3	(ENTER SETTINGS POWER ON) SAVE & EXIT		
		OMNI	C#3
D3	CHANNEL 1		
		CHANNEL 2	D#3
E3	CHANNEL 3		
F3	CHANNEL 4		
		CHANNEL 5	F#3
G3	CHANNEL 6		
		CHANNEL 7	G#3
A3	CHANNEL 8		
		CHANNEL 9	A#3
B3	CHANNEL 10		
C4	CHANNEL 11		
		CHANNEL 12	C#4
D4	CHANNEL 13		
		CHANNEL 14	D#4
E4	CHANNEL 15		
F4	CHANNEL 16		
		LOCAL ON	F#4
G4	LOCAL OFF		
		LOW NOTE	G#4
A4	LAST NOTE		
		HIGH NOTE	A#4
B4	FLT-A MOD		
C5	FLT-A BREATH		
		FLT-A #74	C#5
D5	FLT-A VEL		
		FLT-A AFT	D#5
E5	FLT-B MOD		
F5	FLT-B BREATH		
		FLT-B #74	F#5
G5	FLT-B VEL		
		FLT-B AFT	G#5
A5	FLT- IND		
		FLT A→B	A#5
B5	FLT B→A		
C6	RESET		

Left brackets: TRIGGER, MIDI CHANNEL, SETTINGS, FILTER SETTINGS, RESET
Right brackets: 2ND FILTER

CS5-10-15-15D-20M-40M

Note	Label		Note
C2	ENV TRIGGER		
C3	(ENTER SETTINGS POWER ON) SAVE & EXIT		
		OMNI	C#3
D3	CHANNEL 1		
		CHANNEL 2	D#3
E3	CHANNEL 3		
F3	CHANNEL 4		
		CHANNEL 5	F#3
G3	CHANNEL 6		
		CHANNEL 7	G#3
A3	CHANNEL 8		
		CHANNEL 9	A#3
B3	CHANNEL 10		
C4	CHANNEL 11		
		CHANNEL 12	C#4
D4	CHANNEL 13		
		CHANNEL 14	D#4
E4	CHANNEL 15		
F4	CHANNEL 16		
		LOCAL ON	F#4
G4	LOCAL OFF		
		LOW NOTE	G#4
A4	LAST NOTE		
		HIGH NOTE	A#4
B4	FLT-A MOD		
C5	FLT-A BREATH		
		FLT-A #74	C#5
D5	FLT-A VEL		
		FLT-A AFT	D#5
E5	FLT-B MOD		
F5	FLT-B BREATH		
		FLT-B #74	F#5
G5	FLT-B VEL		
		FLT-B AFT	G#5
A5	FLT- IND		
		FLT A→B	A#5
B5	FLT B→A		
C6	RESET		

Left brackets: TRIGGER, MIDI CHANNEL, SETTINGS, FILTER SETTINGS, RESET
Right brackets: CS15, CS30, CS15D, CS40M 2ND FILTER