

# Focusrite MK4 Launch Key User Guide

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Focusrite MK4 Launch Key



### **Specifications**

• Product Name: Launchkey MK4

• Version: 2.0

• MIDI Interfaces: Two pairs of MIDI inputs and outputs over USB, MIDI DIN output port

# **Product Usage Instructions**

#### **Bootloader**

• The bootloader section provides information on how to initialize the Launchkey MK4.

### MIDI on Launchkey MK4

- The Launchkey MK4 has two MIDI interfaces, providing MIDI inputs and outputs over USB. It also includes a MIDI DIN output port for transmitting data.
- To use the Launchkey as a control surface for a DAW, switch to DAW mode. Otherwise, interact with the device using the MIDI interface.

### SysEx message format used by the device

• The SysEx messages for Regular SKUs start with Hex: F0h 00h 20h 29h 02h 14h and for Mini SKUs start with Hex: F0h 00h 20h 29h 02h 13h.

# Standalone (MIDI) mode

 The Launchkey MK4 powers up in Standalone mode, which does not provide specific DAW functionality. The DAW in/out interface remains unused. However, MIDI Control Change events are sent on Channel 16 for capturing events on DAW control buttons.

#### FAQ

#### Q: How do I switch between Standalone mode and DAW mode?

A: To switch between Standalone mode and DAW mode, refer to the DAW Mode [11] instructions in the manual.

Q: What type of messages are output by the Start and Stop buttons on the Launchkey MK4?

A: The Start and Stop buttons output MIDI Real-Time Start and Stop messages respectively. When setting up

Custom Modes, ensure controls operate on MIDI Channel 16.

#### **About this Guide**

- This document provides all the information you need to be able to control the Launchkey MK4.
- The Launchkey communicates using MIDI over USB and DIN. This document describes the MIDI
  implementation for the device, the MIDI events coming from it, and how Launchkey's various features can be
  accessed through MIDI messages.

### MIDI data is expressed in this manual in several ways:

- A plain English description of the message.
- When we describe a musical note, middle C is deemed to be 'C3' or note 60. MIDI channel 1 is the lowest-numbered MIDI channel: channels range from 1 to 16.
- MIDI messages are also expressed in plain data, with decimal and hexadecimal equivalents.
- The hexadecimal number will always be followed by an 'h' and the decimal equivalent given in brackets. For example, a note on a message on channel 1 is signified by the status byte 90h (144).

### **Bootloader**

- The Launchkey has a bootloader mode that allows the user to view the current FW versions, and enable/disable Easy Start. The bootloader is accessed by holding the Octave Up and Octave Down buttons together whilst powering up the device.
- The screen will display the current Application and Bootloader version numbers.
- The Record button can be used to toggle Easy Start. When Easy Start is ON, the Launchkey shows up as a Mass Storage Device to provide a more convenient first-time experience.
- You can turn this off once you are familiar with the device to disable this Mass Storage Device.
- The Play button can be used to start the Application.

# MIDI on Launchkey MK4

The Launchkey has two MIDI interfaces, providing two pairs of MIDI inputs and outputs over USB.

# They are as follows:

- MIDI In / Out (or first interface on Windows): This interface is used to receive MIDI from performing (keys, wheels, pad, pot, and fader Custom Modes); and is used to provide external MIDI input.
- DAW In / Out (or second interface on Windows): This interface is used by DAWs and similar software to interact with the Launchkey.
- The Launchkey also has a MIDI DIN output port, which transmits the same data as is received on the host port MIDI In (USB). Note that this excludes responses to requests issued by the host to the Launchkey on MIDI Out (USB).
- If you wish to use Launchkey as a control surface for a DAW (Digital Audio Workstation), you will likely want to use the DAW interface (See DAW Mode [11]).
- Otherwise, you may interact with the device using the MIDI interface.

The Launchkey sends Note On (90h (144) – 9Fh (159)) with velocity zero for Note Offs. It accepts either Note
 Offs (80h (128) – 8Fh (143)) or Note Ons (90h (144) – 9Fh (159)) with velocity zero for Note Off.

## SysEx message format used by the device

All SysEx messages begin with the following header, regardless of direction (Host  $\rightarrow$  Launchkey or Launchkey  $\rightarrow$  Host).

# • Regular SKUs:

• Hex: F0h 00h 20h 29h 02h 14h

Dec: 240 0 32 41 2 20

#### · Mini SKUs:

Hex: F0h 00h 20h 29h 02h 13h

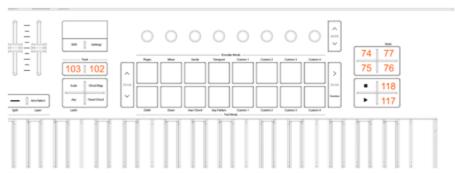
Dec: 240 0 32 41 2 19

 After the header is a command byte, select the function to use, and then whatever data is required for that function.

### Standalone MIDI mode

- The Launchkey powers up into Standalone mode. This mode does not provide specific functionality for interaction with DAWs, the DAW in/out (USB) interface remains unused for this purpose.
- However, to provide means for capturing events on the Launch key's DAW control buttons, they do send MIDI
  Control Change events on Channel 16 (MIDI status: BFh, 191) on the MIDI in / out (USB) interface and the MIDI
  DIN port:

Figure 1. Decimal:



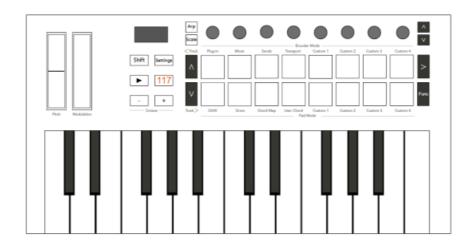
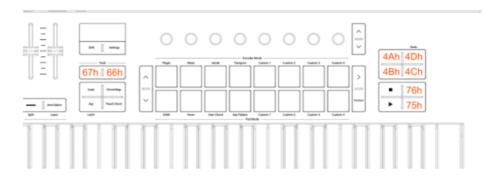
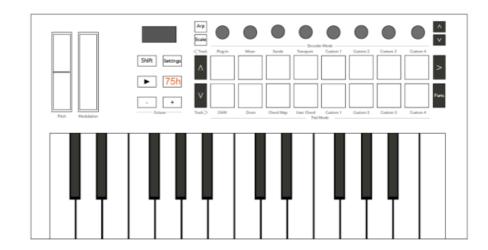


Figure 2. Hexadecimal:





- The Start and Stop buttons (Start and Shift + Start on Launchkey Mini SKUs) output the MIDI Real-Time Start and Stop messages respectively
- When creating Custom Modes for the Launchkey, keep these in mind if you are setting up controls to operate on MIDI Channel 16.

### **DAW** mode

- DAW mode provides DAWs and DAW-like software functionality to realize intuitive user interfaces on Launchkey's surface. The capabilities described in this chapter are only available once DAW mode is enabled.
- All functionality described in this chapter is accessible through the DAW In/Out (USB) interface.

#### **DAW mode control**

### • Enable DAW Mode:

Hex: 9fh 0Ch 7FhDec: 159 12 127

## • Disable DAW Mode:

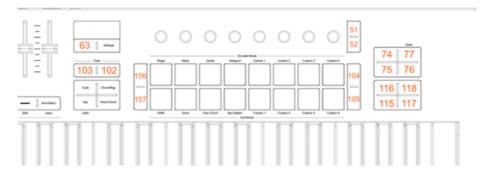
Hex: 9Fh 0Ch 00hDec: 159 12 0

- When the DAW or DAW-like software recognizes the Launchkey and connects to it, it should first enter DAW
  mode (send 9Fh 0Ch 7Fh), and then, if necessary, enable the feature controls (see the "Launchkey MK4
  feature controls" section of this document).
- When the DAW or DAW-like software exits, it should exit from DAW mode on the Launchkey (send 9Fh 0Ch

### The surface in DAW mode

- In DAW mode, contrary to standalone (MIDI) mode, all buttons, and surface elements not belonging to
  performance features (such as the Custom Modes) can be accessed and will report on the DAW In/Out (USB)
  interface only.
- The buttons except for those belonging to the Faders are mapped to Control Change events as follows.

Figure 3. Decimal:



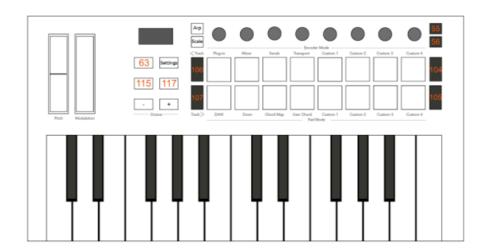
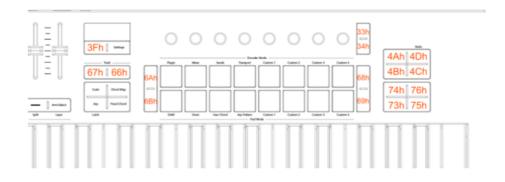
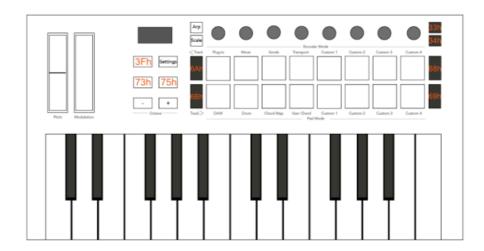


Figure 4. Hexadecimal:





• The Control Change indices listed are also used for sending color to the corresponding LEDs (if the button has any), see Colouring the surface [14].

# Additional modes available in DAW mode

# Once in DAW mode, the following additional modes become available:

- DAW mode on the pads.
- Plugin, Mixers, Sends & Transport on the encoders.
- Volume on the faders (Launchkey 49/61 only).

# When entering DAW mode, the surface is set up in the following manner:

• Pads: DAW.

• Encoders: Plugin.

• Faders: Volume (Launchkey 49/61 only).

The DAW should initialize each of these areas accordingly.

### Mode report and select

- The modes of the pads, encoders, and faders can be controlled by MIDI events and are reported back by the Launchkey whenever it changes mode due to user activity.
- These messages are important to capture, as the DAW should follow them when setting up and using the surfaces as intended based on the selected mode.

#### Pad modes

- Pad mode changes are reported or can be changed by the following MIDI event.
- Channel 7 (MIDI status: B6h, 182), Control Change 1Dh (29)

# The Pad modes are mapped to the following values:

- 01h (1): Drum layout
- 02h (2): DAW layout
- 04h (4): User Chords
- 05h (5): Custom Mode 1
- 06h (6): Custom Mode 2
- 07h (7): Custom Mode 3
- 08h (8): Custom Mode 4
- 0Dh (13): Arp Pattern
- 0Eh (14): Chord Map

### **Encoder modes**

- Encoder mode changes are reported or can be changed by the following MIDI event.
- Channel 7 (MIDI status: B6h, 182), Control Change 1Eh (30)

# The encoder modes are mapped to the following values:

- 01h (1): Mixer
- 02h (2): Plugin
- 04h (4): Sends
- 05h (5): Transport
- 06h (6): Custom Mode 1
- 07h (7): Custom Mode 2
- 08h (8): Custom Mode 3
- 09h (9): Custom Mode 4

# Fader modes (Launchkey 49/61 only)

- Fader mode changes are reported or can be changed by the following MIDI event.
- Channel 7 (MIDI status: B6h, 182), Control Change 1Fh (31)

### The fader modes are mapped to the following values:

- 01h (1): Volume
- 06h (6): Custom Mode 1
- 07h (7): Custom Mode 2
- 08h (8): Custom Mode 3

• 09h (9): Custom Mode 4

### **DAW** mode

- The DAW mode on pads is selected on entering DAW mode, and when the user selects it by the Shift menu.
- The pads report back as a note (MIDI status: 90h, 144) and aftertouch (MIDI status: A0h, 160) events (the latter only if Polyphonic Aftertouch is selected) on Channel 1, and can be accessed for coloring their LEDs by the following indices.

60h 61h 62h 63h 64h 65h 66h 67h	96 97 98 99 100 101 102 103
70h 71h 72h 73h 74h 75h 76h 77h	112 113 114 115 116 117 118 119

#### **Drum mode**

 The Drum mode on pads can replace the Drum mode of standalone (MIDI) mode, providing a capability to the DAW to control its colors and receive the messages on the DAW MIDI port.

# This is done by sending the below message:

Hex: B6h 54h 01hDec: 182 84 1

# Drum mode can be returned to standalone operation with the below message:

Hex: B6h 54h 00hDec: 182 84 0

• The pads report back as a note (MIDI status: 9Ah, 154) and Aftertouch (MIDI status: AAh, 170) events (the latter only if Polyphonic Aftertouch is selected) on Channel 10, and can be accessed for coloring their LEDs (see "Colouring the Surface [14]") by the following indices:

28h 29h 2Ah 2Bh 30h 31h 32h 33h	40 41 42 43 48 49 50 51
24h 25h 26h 27h 2Ch 2Dh 2Eh 2Fh	36 37 38 39 44 45 46 47

#### **Encoder modes**

#### **Absolute Mode**

- The Encoders in the following modes provide the same set of Control Changes on Channel 16 (MIDI status: BFh, 191).
- Plugin
- Mixer

Sends

# The Control Change indices provided are as follows:



21 22 23 24 25 26 27 28

• If the DAW sends them position information, they automatically pick that up.

#### **Relative Mode**

• The Transport Mode uses the relative output mode with the following Control Changes on Channel 16 (MIDI status: BFh, 191).

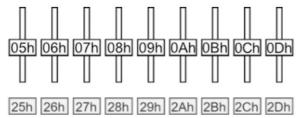


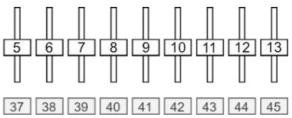


- In Relative mode, the pivot value is 40h(64) (no movement). Values above the pivot point encode clockwise movements. Values below the pivot point encode anticlockwise movements.
- For example, 41h(65) corresponds to 1 step clockwise and 3Fh(63) corresponds to 1 step anticlockwise.
- If Continuous Control Touch events are enabled, the Touch On is sent as a Control Change event with Value 127 on Channel 15, while the Touch Off is sent as a Control Change event with Value 0 on Channel 15.
- For example, the leftmost Pot would send BEh 55h 7Fh for Touch On, and BEh 55h 00h for Touch Off.

# Fader mode (Launchkey 49/61 only)

• The Faders, in Volume mode, provide the following set of Control Changes on Channel 16 (MIDI status: BFh, 191).





- If Continuous Control Touch events are enabled, the Touch On is sent as a Control Change event with Value 127 on Channel 15, while the Touch Off is sent as a Control Change event with Value 0 on Channel 15.
- For example, the leftmost Fader would send BEh 05h 7Fh for Touch On, and BEh 05h 00h for Touch Off.

# Coloring the surface

- For all controls except the Drum mode, a note, or a control change matching those described in the reports can be sent to color the corresponding LED (if the control has any) on the following channels.
- Channel 1: Set stationary color.
- · Channel 2: Set flashing color.
- Channel 3: Set pulsing color.
- For the Drum mode on Pads, Once the DAW has taken control of the mode [12], the following channels apply:
- Channel 10: Set stationary color.
- Channel 11: Set flashing color.
- Channel 12: Set pulsing color.
- The color is selected from the color palette by the note event's Velocity or the control change's value.
- Monochrome LEDs can have their brightness set using a CC on channel 4, the CC number is the LED index, and the value is the brightness e.g.

Hex: 93h 73h 7FhDec: 147 115 127

# **Colour palette**

 When providing colors by MIDI notes or control changes, the colors are chosen according to the following table, decimal.

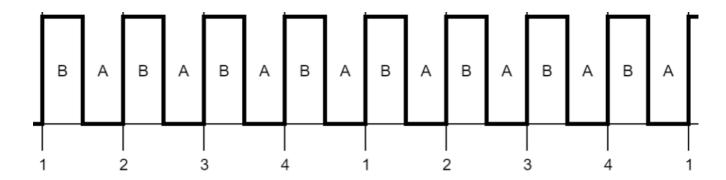
0	1	2	3	4	5	6	7	64	65	66	67	68	69	70	71
8	9	10	11	12	13	14	15	72	73	74	75	76	77	78	79
16	17	18	19	20	21	22	23	80	81	82	83	84	85	86	87
24	25	26	27	28	29	30	31	88	89	90	91	92	93	94	95
32	33	34	35	36	37	38	39	96	97	98	99	100	101	102	103
40	41	42	43	44	45	46	47	104	105	106	107	108	109	110	111
48	49	50	51	52	53	54	55	112	113	114	115	116	117	118	119
56	57	58	59	60	61	62	63	120	121	122	123	124	125	126	127

• The same table with hexadecimal indexing.

00	01	02	03	04	05	06	07	40	41	42	43	44	45	46	47
80	09	0A	0B	0C	0D	0E	0F	48	49	4A	4B	4C	4D	4E	4F
10	11	12	13	14	15	16	17	50	51	52	53	54	55	56	57
18	19	1A	1B	1C	1D	1E	1F	58	59	5A	5B	5C	5D	5E	5F
20	21	22	23	24	25	26	27	60	61	62	63	64	65	66	67
28	29	2A	2B	2C	2D	2E	2F	68	69	6A	6B	6C	6D	6E	6F
30	31	32	33	34	35	36	37	70	71	72	73	74	75	76	77
38	39	3A	3B	3C	3D	3E	3F	78	79	7A	7B	7C	7D	7E	7F

# Flashing colour

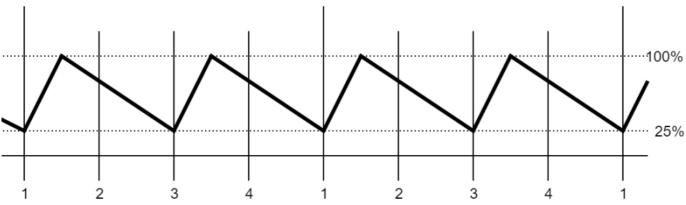
- When sending flashing color, the color flashes between that set as static or pulsing color (A), and that contained in the MIDI event setting flashing (B), at 50% duty cycle, synchronized to the MIDI beat clock (or 120bpm or the last clock if no clock is provided).
- One period is one beat long.



# **Pulsing colour**

• The color pulses between dark and full intensity, synchronized to the MIDI beat clock (or 120bpm or the last clock if no clock is provided).

# One period is two beats long, using the following waveform:



#### **RGB** color

Pads and fader buttons can also be set to a custom color using the following SysEx

# • Regular SKUs:

Hex: F0h 00h 20h 29h 02h 14h 01h 43h <padID> <R> <G> <B> F7h Dec: 240 0 32 41 2 20 1 67
 <padID> <R> <G> <B> 247

# • Mini SKUs:

Hex: F0h 00h 20h 29h 02h 13h 01h 43h <padID> <R> <G> <B> F7h Dec: 240 0 32 41 2 19 1 67
 <padID> <R> <G> <B> 247

# Controlling the screen

### Concepts

- Stationary display: A default display that is shown unless any event requires a different display to be temporarily shown above it.
- **Temporary display:** A display triggered by an event, persisting for the length of the display timeout user setting.
- Parameter name: Used in association with a control, showing what it is controlling.
- Unless provided by messages (SysEx), typically this is the MIDI entity (such as note or CC).

- Parameter value: Used in association with a control, showing the current value of it.
- Unless provided by messages (SysEx), this is the raw value of the MIDI entity controlled (such as a number in the range of 0 – 127 in the case of a 7-bit CC).

# Configure displays

### Regular SKUs:

Hex: F0h 00h 20h 29h 02h 14h 04h <target> <config> F7h Dec: 240 0 32 41 2 20 4 <target> <config> 247

#### • Mini SKUs:

- Hex: F0h 00h 20h 29h 02h 13h 04h <target> <config> F7h Dec: 240 0 32 41 2 19 4 <target> <config> 247
- Once a display is configured for a given target, it can be triggered.

### **Targets**

- 00h (0) 1Fh (31): Temp. display for Analogue controls (same as CC indices, 05h-0Dh: Faders, 15h-1Ch: encoders)
- 20h (32): Stationary display
- 21h (33): Global temporary display (can be used for anything unrelated to the Analogue controls)
- 22h (34): DAW pad mode's displayed name (Field 0, empty: default)
- 23h (35): DAW Drum pad mode's displayed name (Field 0, empty: default)
- 24h (36): Mixer encoder mode's displayed name (Field 0, empty: default)
- 25h (37): Plugin encoder mode's displayed name (Field 0, empty: default)
- 26h (38): Sends encoder mode's displayed name (Field 0, empty: default)
- 27h (39): Transport encoder mode's displayed name (Field 0, empty: default)
- 28h (40): Volume fader mode's displayed name (Field 0, empty: default)

### Config

- The <config> byte sets up the arrangement and operation of the display. 00h and 7Fh are special values: It cancels (00h) or brings up (7Fh) the display with its current contents (as MIDI Event, it is a compact way to trigger display).
- Bit 6: Allow Launchkey to generate Temp. Display automatically on Change (default: Set).

  Bit 5: Allow Launchkey to generate Temp. Display automatically on Touch (default: Set; this is the Shift + rotate).
- Bit 0-4: Display arrangement

### **Display arrangements:**

- 0: Special value for canceling display.
- 1-30: Arrangement IDs, see table below.
- 31: Special value for triggering display.

ID	Description	Num	Fields	F0	F1	F2
1	2 lines: Parameter Name and Text Parameter Value	No	2	Name	Value	_
2	3 lines: Title, Parameter Name, and Text Parameter Value	No	3	Title	Name	Value
3	1 line + 2×4: Title and 8 names (for encoder designations)	No	9	Title	Name1	
4	2 lines: Parameter Name and Numeric Para meter Value (default)	Yes	1	Name	_	_

• **NOTE** The arrangement is ignored for targets only setting names (22h(34) – 28h(40)), however, for changing triggerability, it needs to be set non-zero (since the value 0 for these still acts for cancelling the display).

# **Setting text**

- Once a display is configured, the following message can be used to fill in the text fields.
- Regular SKUs:
  - Hex: F0h 00h 20h 29h 02h 14h 06h <target> <field> <text...> F7h Dec: 240 0 32 41 2 20 6 <target> <field> <text...> 247
- Mini SKUs:
  - Hex: F0h 00h 20h 29h 02h 13h 06h <target> <field> <text...> F7h Dec: 240 0 32 41 2 19 6 <target> <field> <text...> 247
- The text uses the standard ASCII character mapping in the range 20h (32) 7Eh (126) with the addition of the below control codes, which have been reassigned to provide additional non-ASCII characters.
- **Empty Box** 1Bh (27)
- **Filled Box** 1Ch (28)
- **Flat Symbol** 1Dh (29)
- Heart 1Eh (30)
- Other control characters should not be used as their behavior may change in the future.

### **Bitmap**

- The screen can also display custom graphics by sending a bitmap to the device.
- Regular SKUs:
  - Hex: F0h 00h 20h 29h 02h 14h 09h <target> <bitmap\_data> 7Fh Dec: 240 0 32 41 2 20 9 <target>
     <br/>
     <br/>
- Mini SKUs:
  - Hex: F0h 00h 20h 29h 02h 13h 09h <target> <bitmap\_data> 7Fh Dec: 240 0 32 41 2 19 9 <target> <bitmap\_data> 127
  - The <target> can be either the Stationary display (20h(32)) or the Global temporary display (21h(33)).

There is no effect on other targets.

- The <bitmap\_data> is of fixed 1216 bytes, 19 bytes for each pixel row, for a total of 64 rows (19 x 64 = 1216).
- The 7 bits of the SysEx byte encode pixels from left to right (the highest bit corresponding to the leftmost pixel), the 19 bytes covering the 128 pixels width of the display (with five unused bits in the last byte).
- Upon success, there is a response to this message, which is suitable for timing fluid animations (once receiving it, the Launchkey is ready to accept the next Bitmap message):

# • Regular SKUs:

Hex: F0h 00h 20h 29h 02h 14h 09h 7Fh

Dec: 240 0 32 41 2 20 9 127

#### Mini SKUs:

Hex: F0h 00h 20h 29h 02h 13h 09h 7Fh

Dec: 240 0 32 41 2 19 9 127

- The display can be canceled by either canceling it explicitly (using the Configure Display SysEx or MIDI
   Event) or triggering the normal display (whose parameters are preserved while the bitmap is displaying).
- **NOTE** The firmware can only hold one bitmap in its memory at once.

# Launchkey MK4 feature controls

- Many of the Launchkey's features can be controlled by MIDI CC messages sent to the Launchkey's DAW in port on channel 7 and queried by sending the same message to channel 8.
- Reply messages confirming changes or answering queries will always be sent on channel 7.
- To enable or disable these controls in standalone mode, use the below messages.

# • Enable feature controls:

Hex: 9Fh 0Bh 7Fh Dec: 159 11 127

#### • Disable feature controls:

Hex: 9Fh 0Bh 00hDec: 159 11 0

- NOTE In DAW mode, all feature controls are listening, but will not send the confirmation reply except for a few essential ones.
- In DAW mode, the above messages can be used to turn fully on all of them or revert to the DAW set.
- The CC messages must be sent to the Launchkey's DAW in the MIDI port.
- Nibble-split controls use the least significant nibble of two CC values to create an 8-bit value. The first CC value becomes the most significant nibble.
- Features marked with (\*) are non-volatile, persisting across power cycles.
- Features marked with (#) are always fully enabled in DAW mode.

CC Number		Feature	Control Type
Hex	Decimal		
02h:22h	(2:34)	Arp Swing	2's complement signed 14 bits percentage
03h:23h	(3:35)	Tempo control	
04h: 24h	(4:36)	Arp Deviate rhythm pattern	nibble-split bitmask
05h: 25h	(5:37)	Arp Ties	nibble-split bitmask
06h: 26h	(6:38)	Arp Accents	nibble-split bitmask
07h: 27h	(7:39)	Arp Ratchets	nibble-split bitmask
1Dh (#)	(29) (#)	Pads layout select	
1Eh (#)	(30) (#)	Encoders layout select	
1Fh (#)	(31) (#)	Faders layout select	
3Ch	(6)	Scale behaviour select	
3Dh (#)	(61) (#)	Scale tonic (root note) select	
3Eh (#)	(62) (#)	Scale mode (type) select	
3Fh (#)	(63) (#)	Shift	
44h	(68)	DAW 14-bits Analogue output	On/Off
45h	(69)	DAW Encoder Relative output	On/Off
46h	(70)	DAW Fader Pickup	On/Off
47h	(71)	DAW Touch events	On/Off
49h	(73)	Arp	On/Off
4Ah	(74)	Scale mode	On/Off
4Ch	(76)	DAW Performance note redirect (When On, Keybed notes go to DAW)	On/Off
4Dh	(77)	Keyboard Zones, mode	0: Part A, 1: Part B, 2 : Split, 3: Layer
4Eh	(78)	Keyboard Zones, split key	MIDI note on default octave keybed
4Fh (*)	(79) (*)	Keyboard Zones, Arp connection select	0: Part A, 1: Part B
53h	(83)	DAW Drumrack active colour	
54h	(84)	DAW Drumrack On / Off (When Off, Drumrack remains in MIDI mode while in DAW mode)	
55h	(85)	Arp Type (Up / Down etc.)	
56h	(86)	Arp Rate (including Triplets)	
57h	(87)	Arp Octave	
58h	(88)	Arp Latch	On/Off
59h	(89)	Arp Gate length	percentage
5Ah	(90)	Arp Gate minimum	milliseconds
5Ch	(92)	Arp Mutate	

64h (*)	(100) (*)	MIDI Channel, Part A (or Keybed MIDI not having keyboard split)	Channel for SKUs	0-15
65h (*)	(101) (*)	MIDI Channel, Part B (only used on SK keyboard split)	Us having	0-15
66h (*)	(102) (*)	MIDI Channel, Chords		0-15
67h (*)	(103) (*)	MIDI Channel, Drums		0-15
CC Number		Feature	Control Type	
Hex	Decimal			
68h (*)	(104) (*)	Keys velocity curve / Fixed velocity select		
69h (*)	(105) (*)	Pads velocity curve / Fixed velocity select		
6Ah (*)	(106) (*)	Fixed velocity value		
6Bh (*)	(107) (*)	Arp velocity (whether Arp should take velocity from its note input or use fixed velocity)		
6Ch (*)	(108) (*)	Pad aftertouch type		
6Dh (*)	(109) (*)	Pad aftertouch threshold		
6Eh (*)	(110) (*)	MIDI Clock output	On/Off	
6Fh (*)	(111) (*)	LED brightness level	(0–127 where 0 is min, 127	is max)
70h (*)	(112) (*)	Screen brightness level	(0–127 where 0 is min, 127	is max)
71h (*)	(113) (*)	Temporary display timeout	1/10 sec units, minimum o 0.	f 1 sec at
72h (*)	(114) (*)	Vegas mode	On/Off	
73h (*)	(115) (*)	External Feedback	On/Off	
74h (*)	(116) (*)	Pads power-on default mode select		
75h (*)	(117) (*)	Pots power-on default mode select		
76h (*)	(118) (*)	Faders power-on default mode select		
77h (*)	(119) (*)	Custom Mode Fader pick-up	0 : Jump, 1 : Pic	kup
7Ah	(122)	Chord Map Adventure setting	1-5	
7Bh	(123)	Chord Map Explore setting	1-8	
7Ch	(124)	Chord Map Spread setting	0-2	
7Dh	(125)	Chord Map Roll setting	0–100 milliseco	nds

# **Documents / Resources**



Focusrite MK4 Launch Key [pdf] User Guide Launchkey 49, Launchkey 61, MK4 Launch Key, MK4, Launch Key, Key

# References

# • User Manual

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