Factory Presets

Draft 1.0

OffGrid has 16 stock presets on-board to help you start your musical journey.
The *Factory Presets* are grouped into 4 Columns:

INS – Instruments
Presets in the 1st column – **Presets 1, 5, 9, 13** are best suited for playing dynamic Instruments (such as Piano, Rhodes, Bassline Leads, Pads, etc...).
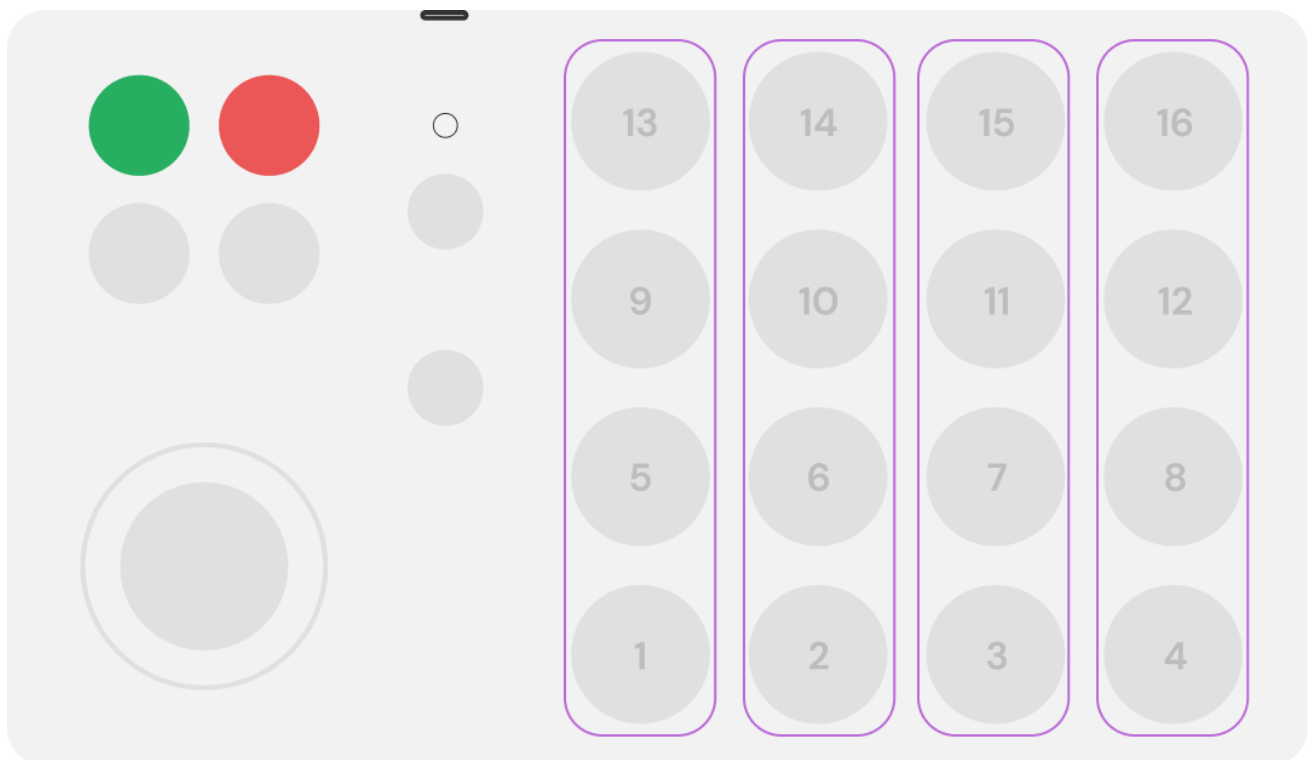
DRM – Drums
Presets in the 2nd column – **Presets 2, 6, 10, 14** are intended for playing Drums and percussion Instruments.

MTN – Motion
Presets in the 3rd column – **Presets 3, 7, 11, 15** are intended for modulation using OffGrid'S Motion Controller.

MPE – MIDI Polyphonic Expression
Presets in the 4th column – **Presets 4, 8, 12, 16** are intended for MPE compatible Apps.

OffGrid's *4x4 Performance Matrix* with the Pad numbers grouped into four columns.

INS–Default (Pad 1)

This preset is the *default* for playing **OffGrid**, it will be loaded initially when connecting to the unit

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	Press and Hold the **Shifter 1** button to see the currently active *Preset Slot* in the Factory Bank.
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	0-detent = 0 Modulation Hard Left = 127 Hard Right = 127
Joystick Y-Axis	Pitchbend	0-detent = 0 Pitchbend Top Position = Maximum positive Pitchbend Bottom Position = Maximum negative Pitchbend
Motion Control Pitch Down	CC 103	0°–90° Range of motion (in the downward direction) correspond to MIDI values 0–127
Motion Control Pitch Up	CC 106	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Motion Control Roll Left	CC 102	0°–90° Range of motion (tilt Left) correspond to MIDI values 0–127
Motion Control Roll Right	CC 105	0°–90° Range of motion (tilt Right) correspond to MIDI values 0–127
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	Toggling states to reproduce expected Transport Button behavior in DAWs
Pad B Record	CC 50 + *GarageBand* **Record**	

INS–HighVelocity (Pad 5)

This preset is nearly identical to INS–Default, the difference is in the impact velocity response of the Pads for Instruments that require a lower dynamic range.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled	
Velocity	High	Higher initial impact velocity
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	CC 103	
Motion Control Pitch Up	CC 106	
Motion Control Roll Left	CC 102	
Motion Control Roll Right	CC 105	
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

INS–NoAftertouch (Pad 9)

This preset is identical to INS–Default but disables Aftertouch for Instruments that are not Aftertouch enabled, and/or to conserve data bandwidth when using over Bluetooth LE.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Disabled	Aftertouch disabled
Velocity	High	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	CC 103	
Motion Control Pitch Up	CC 106	
Motion Control Roll Left	CC 102	
Motion Control Roll Right	CC 105	
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

INS–LiteMode (Pad 13)

A lightweight configuration of the INS–Default preset. Aftertouch and Motion Control are disabled for the fastest response and lowest data bandwidth use over Bluetooth LE.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Disabled	
Velocity	Default / Linear	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	Disabled	No Motion Control data
Motion Control Pitch Up	Disabled	No Motion Control data
Motion Control Roll Left	Disabled	No Motion Control data
Motion Control Roll Right	Disabled	No Motion Control data
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

DRM–Default (Pad 2)

This is the default preset for playing GM Drum Mapped drums and beat making themed Apps using OffGrid's Motion Controller. This preset is particularly useful for motion control of the Filter effect in the [Koala Sampler](#) App due to a joined-axis behavior of the Motion Controller and a center-detent MIDI value in the absolute horizontal.

Parameter	Mapping	Comment
Root Note	MIDI 36 / (C2)	
Aftertouch:	Disabled	
Velocity	Default / Linear	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	Disabled	No Motion Control data
Motion Control Pitch Up	Disabled	No Motion Control data
Motion Control Roll Left	CC 105	0°–90° Range of motion (tilt Left) correspond to MIDI values 64–0
Motion Control Roll Right	CC 105	0°–90° Range of motion (tilt Right) correspond to MIDI values 64–127
Pad A Play / Pause	CC 51	
Pad B Record	CC 50	

DRM–HiDynamic (Pad 6)

This is a preset for playing GM Drum Mapped drums and beat making themed Apps that require a higher impact velocity response.

Parameter	Mapping	Comment
Root Note	MIDI 36 / (C2)	
Aftertouch:	Disabled	
Velocity	High	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	Disabled	No Motion Control data
Motion Control Pitch Up	Disabled	No Motion Control data
Motion Control Roll Left	Disabled	No Motion Control data
Motion Control Roll Right	Disabled	No Motion Control data
Pad A Play / Pause	CC 51 / CC 52	
Pad B Record	CC 50	

DRM–LiteMode (Pad 14)

A GM Drum Mapping preset with very little bandwidth usage. Motion Controls and Aftertouch disabled.

Parameter	Mapping	Comment
Root Note	MIDI 36 / (C2)	
Aftertouch:	Disabled	Aftertouch Disabled
Velocity	Default / Linear	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	Disabled	No Motion Control data
Motion Control Pitch Up	Disabled	No Motion Control data
Motion Control Roll Left	Disabled	No Motion Control data
Motion Control Roll Right	Disabled	No Motion Control data
Pad A Play / Pause	CC 51	
Pad B Record	CC 50	

MTN–Default (Pad 3)

This preset makes use of OffGrid's Motion Controller's Roll-range for panning your sound in a stereo-field with the reserved CC10 parameter. It also uses the Pitch-range for ModWheel controls (CC1)..

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	CC 1	Joined-axis behavior
Motion Control Pitch Up	CC 1	Joined-axis behavior
Motion Control Roll Left	CC 10	Joined-axis behavior
Motion Control Roll Right	CC 10	Joined-axis behavior
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MTN–ModExp (Pad 7)

This preset makes use of OffGrid's Motion Controller's Roll-range for controlling the reserved MIDI parameter for Expression. It also uses the Pitch-range for ModWheel controls.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	CC 1	0°–90° Range of motion (in the downward direction) correspond to MIDI values 0–127
Motion Control Pitch Up	CC 102	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Motion Control Roll Left	CC 11	Joined-axis behavior
Motion Control Roll Right	CC 11	Joined-axis behavior
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MTN–Joined (Pad 11)

This preset is designed to make use of the joined-axis behavior on Roll and Pitch motion for a non-reserved MIDI mapping of your choice. The Joined-axis behavior has a default MIDI Value of 64 in the absolute horizontal position.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	CC 103	0°–90° Range of motion (tilt Left) correspond to MIDI values 64-0
Motion Control Pitch Up	CC 103	0°–90° Range of motion (tilt Right) correspond to MIDI values 64-127
Motion Control Roll Left	CC 105	0°–90° Range of motion (tilt Left) correspond to MIDI values 64-0
Motion Control Roll Right	CC 105	0°–90° Range of motion (tilt Right) correspond to MIDI values 64-127
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MTN–Split (Pad 15)

This preset is designed for absolute freedom in mapping each of the Motion Controller's detectable changes being: tilt Right, tilt Left, pitch Up, pitch Down and mapping their range to separate MIDI CC Parameters.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	CC 103	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Motion Control Pitch Up	CC 106	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Motion Control Roll Left	CC 102	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Motion Control Roll Right	CC 105	0°–90° Range of motion (in the upward direction) correspond to MIDI values 0–127
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MPE–Default (Pad 4)

This preset is the default for MPE enabled Apps. The Motion Controller's detection is mapped to the MPE Expression parameter (CC74) and ModWheel. Notes cycle through MIDI channels 2-to-16.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	CC 74	Joined-axis behaviour
Motion Control Pitch Up	CC 74	Joined-axis behaviour
Motion Control Roll Left	CC 1	Joined-axis behaviour
Motion Control Roll Right	CC 1	Joined-axis behaviour
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MPE–Inverse (Pad 8)

This preset inverts the MTN–Default behavior of the Motion Controller's mapping.

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X–Axis	CC 1 / ModWheel	
Joystick Y–Axis	Pitchbend	
Motion Control Pitch Down	CC 1	Joined–axis behaviour
Motion Control Pitch Up	CC 1	Joined–axis behaviour
Motion Control Roll Left	CC 74	Joined–axis behaviour
Motion Control Roll Right	CC 74	Joined–axis behaviour
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MPE–PitchBend (Pad 12)

In this preset the Motion Controller detection is mapped to MPE Pitchbend and Expression (CC74).

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	CC 74	Joined-axis behaviour
Motion Control Pitch Up	CC 74	Joined-axis behaviour
Motion Control Roll Left	Pitch Bend	Joined-axis behaviour
Motion Control Roll Right	Pitch Bend	Joined-axis behaviour
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	

MPE-PitchInv (Pad 16)

An inversion of MPE-PitchBend

Parameter	Mapping	Comment
Root Note	MIDI 48 / Middle C (C3)	
Aftertouch:	Enabled / Linear	
Velocity	Default / Linear	
Joystick X-Axis	CC 1 / ModWheel	
Joystick Y-Axis	Pitchbend	
Motion Control Pitch Down	Pitch Bend	Joined-axis behaviour
Motion Control Pitch Up	Pitch Bend	Joined-axis behaviour
Motion Control Roll Left	CC 74	Joined-axis behaviour
Motion Control Roll Right	CC 74	Joined-axis behaviour
Pad A Play / Pause	CC 51 / CC 52 *GarageBand* **Play / Pause**	
Pad B Record	CC 50 + *GarageBand* **Record**	