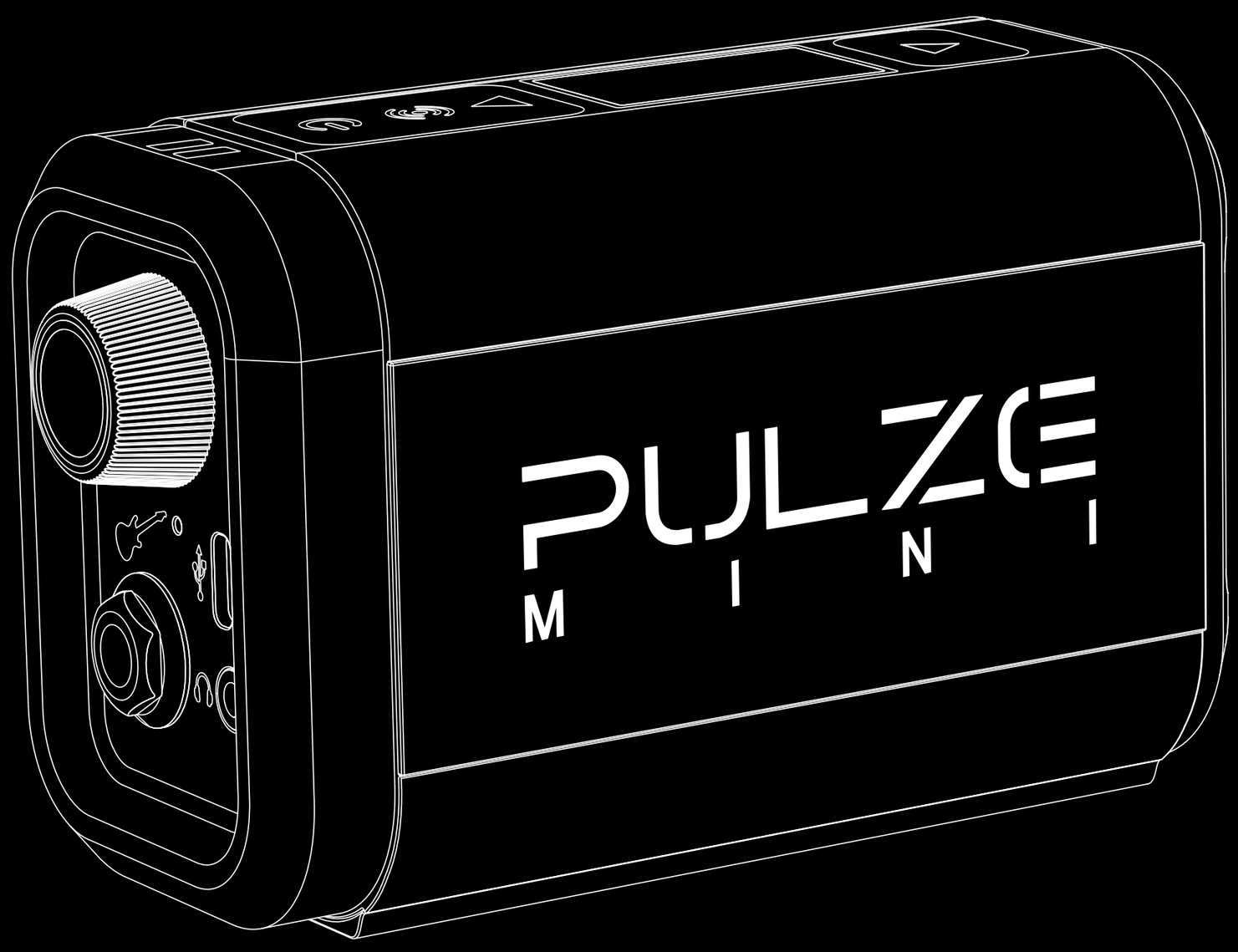
PULZE MINI

Effect List

For Firmware V1.1.0



HOTONE

DESIGN INSPIRATION

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Content

FX Title	Description	Parameters & Ranges
DYN		
Gate		
Gate 1	This one-knob, extremely easy-to-use noise gate gets you smooth, ripple-free noise tracking and keeps your signal pristine.	Threshold: Controls the gate trigger level
Gate 2	This is a fully-functional noise gate with detailed control. The individual Attack and Release controls play nice with amps and other pedals.	Threshold: Controls the gate trigger level Attack: Controls how soon the gate starts to process the signal Release: Controls the noise fade-out duration time after the level drops below the threshold
Dynamic		
Comp 1	The Holy Grail of compressor pedals is here. Compresso is based on the legendary Ross™ Compressor* pedal, which is unarguably the compressor of compressors. We carefully recreated the sonic character to get the same colorful, bouncy, natural compression as the original pedal.	Sustain: Controls the compression amount Output: Controls the effect output
Comp 2	This is a fully-functional compressor with lots of tonal flexibility. A Tone knob is specially designed for further tone shaping.	Threshold: Controls the compression trigger level Ratio: Controls the amount of compression when the compressor is triggered Output: Controls the output volume/ makeup amount Attack: Controls how soon the compressor starts to process the signal Release: Controls how soon the compressor starts to release the signal level back to normal after the level drops below the threshold Tone: Controls the effect tone Blend: Controls the wet/dry signal ratio
Boost 1	This effect is based on the legendary MXR® M133 Micro Amp* pedal. Providing up to 20dB of gain, the Micro Boost elevates your amp sound without changing its tonal character.	Gain: Controls the gain amount
Boost 2	This boost is designed for modern Dentlemen and metalheads who need huge gain buy not noisy artifacts. A built-in noise gate reduces hum and keeps your palm muting tight. Use the Low Cut knob to get your tone where you want it.	Boost: Controls the boost amount Gate: Controls the noise gate threshold Low Cut: Cuts the low frequency signal
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FX Title	Description	Parameters & Ranges
Boost 3	Based on the legendary FET-based belt clip preamp, this boost is a clean volume machine. Use this pedal to get a huge amount of gain without any distortion, tone sculpt with the flexible 2-band EQ. Onboard you'll also find a handy low cut filter for tone shaping and eliminating low frequency feedback.	Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone Low Cut: Switches the low cut filter (-6dB/oct @200Hz) on/off
Boost 4	This is a modern booster/overdrive model based on the famous Horizon Devices® Precision Drive*. Designed by Misha Mansoor, this pedal is an everything solution for progressive musicians. Plug in an extended range guitar, or run into a high gain amp to find the prog magic. Special designed Attack control tightens the low ends and makes your sound prog-y. A built-in smart noise gate reduces hum and keeps your palm muting tight.	Gain: Controls the overdrive amount Tone: Controls the effect tone Volume: Controls the effect output Attack: 6-mode selector; dial clockwise for a tighter, more aggressive sound Gate: Controls the built-in noise gate threshold
Boost 5	This model is based on the Fortin® Grind* booster pedal, providing a max. +20dB boost amount. It helps tighten up your tone while adding some aggressive edges.	Gain: Controls the effect output/boost amount
PRE		
Dynamic		
Comp 1	The Holy Grail of compressor pedals is here. Compresso is based on the legendary Ross™ Compressor* pedal, which is unarguably the compressor of compressors. We carefully recreated the sonic character to get the same colorful, bouncy, natural compression as the original pedal.	Sustain: Controls the compression amount Output: Controls the effect output
Comp 2	This is a fully-functional compressor with lots of tonal flexibility. A Tone knob is specially designed for further tone shaping.	Threshold: Controls the compression trigger level Ratio: Controls the amount of compression when the compressor is triggered Output: Controls the output volume/makeup amount Attack: Controls how soon the compressor starts to process the signal Release: Controls how soon the compressor starts to release the signal level back to normal after the level drops below the threshold Tone: Controls the effect tone Blend: Controls the wet/dry signal ratio

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Boost 3	Based on the legendary FET-based belt clip preamp, this boost is a clean volume machine. Use this pedal to get a huge amount of gain without any distortion, tone sculpt with the flexible 2-band EQ. Onboard you'll also find a handy low cut filter for tone shaping and eliminating low frequency feedback.	Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone Low Cut: Switches the low cut filter (-6dB/oct @200Hz) on/off
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Boost 5	This model is based on the Fortin® Grind* booster pedal, providing a max. +20dB boost amount. It helps tighten up your tone while adding some aggressive edges.	Gain: Controls the effect output/boost amount
Filter		
T-Wah G	This is an envelope filter designed for guitars, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
T-Wah B	This is an envelope filter designed for basses, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
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FX Title	Description	Parameters & Ranges
A-Wah	Designed for for both guitars and basses, this auto wah has many parameters for shaping the tone of your wah sound. Start with the frequency range adjustment to decide the basic flavor of your wah-wah. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Low/High: Controls the filter frequency range Volume: Controls the effect output Q: Controls the filter sharpness Sync: Switches Tap Tempo sync on/off
Pattern	This model is a pattern filter machine for creating synth-like sounds. It provides max. 8 steps and 8 different patterns. A rate control sets the sequencing speed. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/8.	Step: Selects the numbers of steps Patten: Selects from 8 different sequencing patterns Rate/Div: Controls the effect speed/tap division value Shape: Controls the filter width Reso: Controls the filter resonance Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Overdrive		
TS Drv	This model is based on the legendary Ibanez® TS-808 Tube Screamer® . Featuring a warm, juicy overdriven sound, this is the incomparable vintage overdrive model you've always been hoping to find.	Gain: Controls the overdrive amount Tone: Controls the effect tone Volume: Controls the effect output
SD Drv	This model is based on a classic, widely used overdrive which features a unique asymmetric overdrive circuitry. Delivering a rich, authentic-sounding tube-driven overdrive effect with wide tonal range, it's one of a must-have overdrive model in your effect chain.	Gain: Controls the overdrive amount Tone: Controls the effect tone Volume: Controls the effect output
TS Drv+	This model is a classic overdrive inspired by the evergreen TS-style overdrive served with its most enduring modification. Use the two onboard switches to find your favorite screaming mood.	Gain: Controls the overdrive amount Volume: Controls the effect output Tone: Controls the effect tone Fat: Switches extra resonance on/off Air: Switches extra presence on/off
T-Mee	This is an overdrive model based on the legendary Paul Cochrane Timmy®* overdrive (V2) pedal – one of the first transparent overdrive pedals. Like the original, it will push your amp/guitar to the limit while maintaining the original flavor and dynamics.	Gain: Controls the overdrive amount Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone (counterclockwise, same as original) Mode: Selects from three clipping modes: -I: asymmetrical clipping -II: symmetrical clipping -III: symmetrical clipping with more compression feel
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Klone	Based on the legendary Klon® Centaur*, this overdrive model gives you an authentic amp-in-a-box feel with full, rich sound character that is not harsh or boomy at all. Turn Gain knob to minimum you get a superb clean boost.	Gain: Controls the gain amount Tone: Controls the effect tone Volume: Controls the effect output
TaiChi	This model is a touch-sensitive overdrive with wide-ranged dynamics. Based on the legendary Hermida® Zendrive®*, this model delivers an overdriven tone associated with some of the finest, most costly amplifiers on the market. With the four knobs onboard, you can easily touch the soul of ZEN!	Gain: Controls the overdrive amount Tone: Controls the effect tone Volume: Controls the effect output Voice: Controls the upper harmonics character
B-Breaker	This overdrive model recreates the magic of the classic Bluesbreaker®* sound for you. Based on the Marshall® Bluesbreaker®* overdrive pedal, this low-mid-gain overdrive will add sweetness (and a little wildness) to your guitar sound. You can use it as a clean boost too!	Gain: Controls the gain amount Tone: Controls the effect tone Volume: Controls the effect output
Noble OD	This model is based on Nobels® ODR-1 Natrual Overdrive*, a must-have among countless session musicians like Tom Bukovac, Jerry Donahue, John Shanks, and more.	Drive: Controls the gain amount Spectrum: Boosts/cuts both bass and treble frequency Level: Controls the effect output
Distortion		
Mouse	Based on the ProCo™ RAT2* distortion pedal (early LM308 op-amp version), this model brings you the real underground rock scene. Sweet overdrives, grinding rhythms, roaring solos – it cashes in with authority and power. Same as the original, this model features the legendary FILTER control: Turn it clockwise to cut off the high end, turn it counterclockwise to allow the natural brightness of your instrument through.	Gain: Controls the distortion amount Filter: Counterclockwise controls the effect tone Volume: Controls the effect output
Smooth	Based on the famous late-70's distortion pedal that is a favorite among pro guitarists and pedal modifiers, this is truly a classic distortion model. It produces a distortion sound ranging from screaming loud to whisper soft. Of course, it faithfully reproduces the dynamics of your playing style.	Gain: Controls the distortion amount Tone: Controls the effect tone Volume: Controls the effect output

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Shred	This model is based on the legendary Marshall® Shred Master* distortion pedal, the one well known for used by Radiohead's Jonny Greenwood to create his twisted distortion walls.	Gain: Controls the distortion amount Volume: Controls the effect output Bass/Contour/Treble: 3-band EQ that controls the effect tone
Cruncher	Based on the MI Audio® Crunch Box®*, this model brings you high-gain British amp distortion in a stompbox. Simple and straightforward, with just gain, tone, and volume control, this model easily recreates the huge crunch of a British amp.	Gain: Controls the distortion amount Tone: Controls the effect tone Volume: Controls the effect output
Fuzz		
Big Pie	Many dirt pedals released throughout the 1970s began to blur the lines between fuzz and distortion. The Big Muff Pi®* is one of them. Based on the legendary Big Muff Pi®*, this model is a fresh take on the fuzz tone territory. You get a wide-ranged sound character using the TONE knob – from creamy overdrive-like sound to really aggressive fuzzy tone.	Sustain: Controls the gain amount Tone: Controls the effect tone Volume: Controls the effect output
F-Fuzz	This model is based on the legendary Dallas-Arbiter® Fuzz Face®*. Featuring a unique, unmistakable creamy sound with incredible dynamics, the pedal remains a favorite among many rock stars – Hendrix, Gilmour, Townshend and more!	Fuzz: Controls the gain amount Volume: Controls the effect output
B-Fuzz	This model is based on the legendary Sola Sound® Tone Bender Mk II®* fuzz pedal – the legend of the legends. We reproduced the smooth, honey-like tone that was beloved by Page and many more professional musicians.	Fuzz: Controls the gain amount Volume: Controls the effect output
Acoustic		
AC Refiner	Enjoy acoustic refinement: This one-knob tool enhances all that is good in acoustic guitars. It gives a more natural, "woody" tone to your plugged-in acoustic sound, doing wonders for piezo pickups! One knob makes it simple.	Shape: Controls the detailed effect character
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AC Sim	This is an acoustic simulator designed for electric guitars that provides an adjustable range wide enough to give an ordinary electric guitar a variety of natural and realistic acoustic tones.	Body: Controls the "body resonance" (low frequency response) Top: Controls the upper harmonics (high frequency response) Volume: Controls the effect output level Mode: Selects from 4 different sound characters: -Standard: Simulates the tonal characteristics of a standard acoustic guitar -Jumbo: Simulates the tonal characteristics of a jumbo acoustic guitar -Enhanced: Simulates the tonal characteristics of an acoustic guitar with enhanced attack -Piezo: Simulates the sound of a piezo pickup
Bass		
Bass OD1	This model is a flexible drive pedal designed for bass. We voiced this one to deliver a rich driven bass sound. Use the Mode knob to select from 3 unique sound characters.	Gain: Controls the overdrive amount Tone: Controls the effect tone Volume: Controls the effect output Mode: Selects from 3 different sound characters: Normal (neutral sound), Scoop (mid-scooped sound), Edge (edgy sound) Blend: Controls the wet/dry signal ratio
Bass OD2	If you're looking for an all-around bass driver, this is the one. Based on the widely used yellow bass driver, this model gives you a wide tonal flexibility.	Gain: Controls the distortion amount Blend: Controls the wet/dry signal ratio Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone
Bass OD3	This model is based on the famous Darkglass® Microtubes B7K Analog Bass Preamp* pedal. This pedal can turn your whispering bass into a growling monster, all while preserving the clarity. Onboard EQ gives you wide tonal flexibility.	Gain: Controls the overdrive amount Blend: Controls the wet/dry signal ratio Volume: Controls the effect output Low/Low Mid/High Mid/Treble: 4-band EQ that controls the effect tone Attack: Boosts/cuts high frequency amount
Bass OD4	This model is based on the famous Tech 21® SansAmp® Bass Driver DI* pedal, the iconic bass drive tone that can be heard from countless albums and gigs.	Gain: Controls the overdrive amount Blend: Controls the wet/dry signal ratio Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone Presence: Controls effects headroom

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Bass Pre	This model is based on the famous Aguilar® Tone Hammer®* Bass Preamp* pedal, a great swiss army knife for modern bassists.	Gain: Controls the gain amount Master: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone Mid Freq: Controls the range of middle frequency Drive: Turn on for extra gain stage
Pitch		
Detune	This is a detune model which combines a slightly pitch shifted signal with the original signal, producing a lush, chorus-like sound. Use the Dry, Wet and Detune knobs to expand your sonic dimensions.	Dry/Wet: Controls the dry/wet signal level Detune: Controls the detune amount by ±50 cents
Octa 1	This model is a monophonic octaver that creates notes one octave lower and two octaves lower. Single note processing and individual wet/dry signal control recreate the vintage "dirty" analog octave pedal sounds.	Oct 1: Controls the volume of lower octave (1 oct down) Oct 2: Controls the volume of higher octave (2 octs down) Dry: Controls the dry signal level
Octa 2	This model is a polyphonic octaver that creates notes one octave higher and one octave lower. Individual octave voice control and dry signal control can bring you lots of fun, and polyphonic processing support means playing chords is absolutely no problem.	Hi Level: Controls the volume of higher octave (1 oct up) Low Level: Controls the volume of lower octave (1 oct down) Tone: Controls the effect tone Mix: Controls the wet/dry signal ratio Output: Controls the overall output
Pitch	This model is a polyphonic 2-voice pitch shifter with max. 2 octaves pitch shifting range. Detailed pitch shifting settings can bring you lots of fun.	Pitch 1/2: Controls the voice 1/2 pitch shifting range by ±24 semitones Level 1/2: Controls the voice 1/2 output Tone: Controls the effect tone Mix: Controls the overall dry/wet signal ratio Output: Controls the overall output
A-Harm	This model is a monophonic single voice automatic harmonizer with max. one octave pitch shifting range. Detailed Key, Scale and Interval settings can bring you lots of fun.	Mix: Controls the wet/dry signal ratio of the effect Key: Selects the chord key according to your music Mode: Selects the scale mode according to your music Interval: Selects the interval between wet and dry signal Smooth Mode: Switch on to get a smooth note transition
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Chorus		
Chorus	This model is based on the legendary Voodoo Lab® Analog Chorus* pedal. Offering you warm, organic sound and lush harmonics, it has become the standard by which all chorus pedals are measured. Fine tune the two parameters to get your own sound, from subtle doubling to sweet rotation! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Selects the chorus depth from deep to shallow Rate: Controls the chorus speed/tap division value Sync: Switches Tap Tempo sync on/off
Dimension	Based on the legendary 4-button stereo chorus pedal, this Liquid C is more of a "dimension expander" than a chorus effect. Offering 4 finely tuned modes, this model adds unique spatial elements and subtle modulations to which nothing can compare.	Mode: Select from 4 different chorus modes
Bass Cho	This vintage-voiced chorus model is based on the famous ensemble chorus unit that tuned for bass players. Like its cousin, the Choruium B gives you a pure, lush tone. Individual effect level control offers more flexibility for bass. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Output: Controls the effect output Sync: Switches Tap Tempo sync on/off
Flanger		
Flanger	This model produces the classic flanging effect originally achieved by manually, independently varying the speed of two tape recorders with the same program material. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the flanger depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off

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Bass Flg	This model achieves the classic flanging effect for bass players. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Neg Flg	This model produces a flanger effect with negative feedback, sounds like deep in the water, very unique flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Vibrato		
Vibrato	The Pulser is a rebirth of the super rare all-analog vintage vibrato pedal, which gives you a classic vibrato sound with true analog warmth. With simple DEPTH and RATE controls, it's easy to tweak your own unique texture, from slight vibes to a full-on wobble. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Phaser		
O-Phase	This model recreates the warm, rich analog phase sound of the legendary MXR® M101 Phase 90* pedal. Born in 1974, the one-knob orange phaser is an icon that has found a place on millions of pedal boards for over four decades. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
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G-Phase	This model produces a sharp phase effect with a wide range from very slow to fast speed. This unique phasing sound has become popular among lots of musicians since 1977. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
S-Phase	This model is based on the legendary and extremely rare 1970s Electro-Harmonix® Small Stone phase shifter* pedal. This original is one of the best analog phaser sounds in the history of music and can be heard on countless rock recordings. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Color: Selects the phaser sound character from warm to sharp Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Rotary		
Minivibe	This model delivers a lush rotating effect that simulates 1960s rotary speakers. Based on the Voodoo Lab® Micro Vibe*, it gives you the pure, "psychedelic" vibe-y taste that guitar heroes like Hendrix and Gilmour loved. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
U-Vibe	This model is based on the legendary vintage Shin-ei® Uni-Vibe® pedal. The Uni-Vibe® was designed to simulate the sound of a rotary speaker, but the "failed" attempt has been embraced as one of the most iconic effects in rock 'n' roll history. Kick it on and feel the legendary psycho sound of the Revolver! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Volume: Controls the effect output Mode: Select from 2 different vibe modes: Chorus and Vibrato Sync: Switches Tap Tempo sync on/off

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Rotary	This model is a rotary speaker simulator with detailed control, bringing you the legendary tone adapted by lots of rock legends. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the B. /H. Rate/Div knobs to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio B. Rate/Div: Controls the bass rotating speed/tap division value H. Rate/Div: Controls the horn rotating speed/tap division value Balance: Controls the bass/horn sound balance Tone: Controls the effect tone Bass/Horn Sync: Switches Tap Tempo sync on/off
Tremolo		
Tremolo	This model is based on the legendary Demeter® TRM-1 Tremulator® tremolo pedal. Featuring deep, pulsing optical tremolo sound, it recreates the classic tremolo effect found on many vintage amps but with a greater range of speed and depth. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Special		
Bit Crush	This model is a sweet-sounding bitcrusher/sample rate reducer with full control over the bit resolution and sample rate. Use the low pass filter and high pass filter onboard to get your own sound variations.	Mix: Controls the wet/dry signal ratio of the effect Krush: Controls the sample rate of the effect Bit: Controls the bit resolution of the effect Hi Cut/Lo Cut: Controls the high/low cut filter cutoff frequency
Sweller	This model is an auto swell effect that creating a violin-like tone. Two parameters make it simple.	Attack: Controls how fast the effect swells the input signal Curve: Selects the volume swell curve
AMP		
Clean		
Tweed Lux	This model is based on the sound characteristics of the legendary Fender® Tweed Deluxe* amp (5E3 version, BRIGHT channel). Featuring rich, singing clean and juicy, luscious overdrive, the mysterious DELUXE amp with the TWEED cover can be found everywhere from studios to bedrooms.	Volume: Controls the effect output and gain amount Tone: Controls the effect tone Output: Controls the effect output*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
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Baseman Norm	This model is based on the sound characteristics of the legendary Fender® Bassman® amp (5F6-A version, Normal channel), the American legend with a twangy top and fat bottom end. Originally designed for bass, it soon became popular among guitar players.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
Black Twin	This model is based on the legendary Fender® '65 Twin Reverb® amp. It provides a super clean, crystal-like sound with scooped mids, popularly known as the "Blackface Sound".	Volume: Controls the effect output and gain amount Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone Bright: Switches extra brightness on/off
Black Deluxe	This model is based on the legendary Fender® Blackface Deluxe Reverb® amp (Normal CH), providing you a more scooped "blackface" sound with chime-y highs. Plus, it's easier to crank up too!	Volume: Controls the effect output and gain amount Output: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone
Jazz Clean	This model is based on the immaculate "JC clean" 2x12 solid-state jazz-amp combo. The pure transparent clean sound has ruled for more than four decades and remains incontestably reliable among pro musicians.	Volume: Controls the effect output Bright: Switches extra presence on/off Bass/Middle/Treble: 3-band EQ that controls the effect tone
Emperor Clean	This model is based on the Matchless™ Chieftain 212 combo* (clean sound), featuring the rich harmonics and matchless sensitivity that made this amp a Class A legend.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Voxy 15 TB	This model is based on the sound characteristics of a vintage VOX® AC15* combo (with Top Boost), the little brother of the legendary VOX® AC30*, giving you the same British Invasion sound.	Volume: Controls the effect output and gain amount Tone cut: Counterclockwise controls the effect tone Master: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
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FX Title	Description	Parameters & Ranges
Voxy 30HW Norm	This model is based on the sound characteristics of the VOX® AC30HW* combo (Normal channel). As the UK music scene grew out of small pubs to later cross the Pond, almost everyone was using the combo amp covered with a diamond grill cloth, the legendary VOX® AC30*. This became the British Invasion sound.	Volume: Controls the output volume (post gain) Tone cut: Counterclockwise controls the effect tone Master: Controls the effect output Bright: Switches extra brightness on/ off*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
Superstar Clean	This model is based on the clean channel of the famous Mesa/Boogie® Lone Star® combo, bringing you a punchy, shimmering twang with love and joy.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Glacian Clean	This model is based on the clean channel of the famous Bogner ® Shiva* combo (20th anniversary version). Our replica reproduces the glassy hi-fi clean sound powered by a pair of KT88 power tubes. This is a super wide-open sound with immerse headroom, sensitive moods, and great low end response.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Treble: 2-band EQ that controls the effect tone Bright: Switches extra brightness on/off
Brown King Clean	This model is based on the Fender® Brownface Vibro-King® amp (FAT switch off), one of Gary Clark Jr.'s favorite. It gives you a beautiful shimmering clean when turned down, and a serious touch-sensitive dirt when cranked up.	Volume: Controls the effect output and gain amount Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone
Silver Master	This model is based on the legendary Fender® Silverface Bandmaster® amp (early AB763 version), which was treated as the "holy grail of Fender® tone". Not much tweaking is needed - Just plug in, turn up the volume and feel the magic.	Volume: Controls the effect output and gain amount Output: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone Bright: Switches extra brightness on/off
Soloist 100 Clean	This model is based on the sound characteristics of the legendary Soldano® SLO100* amp head (NORMAL channel, clean sound), which set a benchmark for modern amps. The reason you find the sound so familiar is because you've been hearing it on gold records since 1987.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
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FX Title	Description	Parameters & Ranges
Press Wrecker	This model is based on the legendary Trainwreck® Express* amp, a super-rare boutique amp created by Ken Fischer, brings you a high end Plexi-style sound that reacts extremely faithful to your fingers.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone Bright: Switches extra brightness on/off
Petrus Clean	Hotone's next-gen effect algorithms! Leading a qualitative leap in both hearing and playing. This model recreates the sound characteristics of the famous Mesa/ Boogie® JP-2C™* amp (CH1), John Petrucci's signature amp head, delivering a crystal-like clean sound with tons of headroom.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Tang A30 Clean	The Tangerine A30 Clean is based on the famous Orange® AD30* amp head (CH 1), a 30-watt, vintage modern Class A model with Orange®*'s famous "juicy" sound. Adjust the GAIN knob to get the magic: glassy boutique chime with the gain low, and roaring British chomp with the gain up.	Gain: Controls the gain amount (pre gain) Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Drive		
Baseman Bright	This model is based on the sound characteristics of the legendary Fender® Bassman® amp (5F6-A version, Bright channel), the American legend with a twangy top and fat bottom end. Originally designed for bass, it soon became popular among guitar players.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
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FX Title	Description	Parameters & Ranges
Voxy 30HW TB	This model is based on the sound characteristics of the VOX® AC30HW* combo (Top Boost channel). As the UK music scene grew out of small pubs to later cross the Pond, almost everyone was using the combo amp covered with a diamond grill cloth, the legendary VOX® AC-30*. This became the British Invasion sound.	Volume: Controls the effect output and gain amount Tone cut: Counterclockwise controls the effect tone Master: Controls the effect output (post gain) Bass/Treble: 2-band EQ that controls the effect tone Char: Selects from two sound characters: Cool (lower gain)/Hot (higher gain)*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
Emperor Drive	This model is based on the Matchless™ Chieftain 212 combo* (driven sound), featureing the rich harmonics and matchless sensitivity that made this amp a Class A legend.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Superstar Drive	The model is based on the drive channel of the famous Mesa/Boogie® Lone Star® combo, bringing you that well-balanced, smooth American-style drive with a rich combination of both vintage and modern tones.	Input: Controls the input sensitivity Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Glacian Drive	This model is based on the clean channel of the famous Bogner ® Shiva* combo (20th anniversary version). Our replica reproduces the glassy hi-fi clean sound powered by a pair of KT88 power tubes. This is a super wide-open sound with immerse headroom, sensitive moods, and great low end response.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Treble: 2-band EQ that controls the effect tone
Brown King Drive	This model is based on the Fender® Brownface Vibro-King® amp (FAT switch on), one of Gary Clark Jr.'s favorite. It gives you a beautiful shimmering clean when turned down, and a serious touch-sensitive dirt when cranked up.	Volume: Controls the effect output and gain amount Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone
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FX Title	Description	Parameters & Ranges
Dumbell ODS	This model is based on the legendary Dumble® Overdrive Special* amp head (Overdrive section on), providing THAT tone created by lots of legendary jazz/ blues/fusion musicians.	Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Fat: Switches extra mids/gain on/off Voice: Selects from 2 voicings: Rock/Jazz (cuts some high frequency comparing to Rock)
Marshell 45	This model is based on the sound characteristics of the legendary Marshall® JTM 45* amp head (HIGH TREBLE channel). Born in 1962, it soon became popular among countless stars and quickly defined the '60s rock & blues sound.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of this pr
Marshell 50	This model is based on the sound characteristics of the legendary Marshall® JMP 50* amp head (HIGH TREBLE channel). No explanation necessary — The tone is as legendary as the music it helped to create.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone
Marshell SLP	This model is based on the sound characteristics of the legendary Marshall® Super Lead 1959* amp head (Bright channel). No explanation necessary — The tone is as legendary as the music it helped to create. Since it has an extreme output (demanded by Pete Townshend!), we added a Output knob so you can take control.	Volume: Controls the effect output and gain amount Presence: Controls the effect headroom Output: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone
Soloist 100 Crunch	This model is based on the sound characteristics of the legendary Soldano® SLO100* amp head (NORMAL channel, dirty sound), which set a benchmark for modern amps. The reason you find the sound so familiar is because you've been hearing it on gold records since 1987.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
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FX Title	Description	Parameters & Ranges
Petrus Crunch	Hotone's next-gen effect algorithms! Leading a qualitative leap in both hearing and playing. This model recreates the sound characteristics of the famous Mesa/ Boogie® JP-2C™* amp (CH2), John Petrucci's signature amp head, delivering a tight, agressive crunch tone.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Pull Gain: Turn on for extra gain Pull Pres: Turn on for extra headroom Shred: Turn on for a more shredder-friendly voicing
Marshell Blues	This model is an amp simulator based on the sound characteristics of the legendary Marshall® 1958* combo nicknamed "18 Watter" or "Mini Bluesbreaker®*" amp, a serious blues engine with incredible smooth, fat sound and great dynamics. A must-have in your armory!	Volume: Controls the effect output and gain amount Tone: Controls the effect tone Output: Controls the effect output
Tang A30 Drive	This model is based on the famous Orange® AD30* amp head (CH 2), a 30-watt, vintage modern Class A model with Orange®*'s famous "juicy" sound. Adjust the GAIN knob to get the magic: glassy boutique chime with the gain low, and roaring British chomp with the gain up.	Gain: Controls the gain amount (pre gain) Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Hi Gain		
Marshell 800	This model is based on the sound characteristics of the legendary Marshall® JCM800* amp head. Just think about the golden 1980's – a decade of heavy metal and THAT iconic, aggressive, crunchy BRITISH LEAD sound. Now the legend is back!	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
Fryman B	This model is based on a famous UK-style boutique amp head (BE channel). This is an incredible tone machine based on the classic hot British amps. But this amp is extremely versatile: with some knob tweaking, you'll be amazed by the super tight low ends, sweet mids and rich harmonics.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Fat/C45: Adjusts overall tonal characters
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FX Title	Description	Parameters & Ranges
Marshell 900	This model is based on the legendary Marshall® JCM900 (model 4100, CH B)* amp head. Released in 1990, it was designed to produce more gain, less noise and stainless Marshall® tone.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
Boger XT Red	This model is based on the 3rd channel (the red channel) of the famous Bogner® Ecstasy* head (modern sound character), which has been a favorite for every style and genre of music since 1992.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Soloist 100 Lead	This model is based on the sound characteristics of the legendary Soldano® SLO100* amp head (OVERDRIVE channel), which set a benchmark for modern amps. The reason you find the sound so familiar is because you've been hearing it on gold records since 1987.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Fryman HB	This model is based on a famous UK-style boutique amp head (HBE channel). This is an incredible tone machine based on the classic hot British amps. But this amp is extremely versatile: with some knob tweaking, you'll be amazed by the super tight low ends, sweet mids and rich harmonics.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Fat/C45: Adjusts overall tonal characters
Messe IIC+	This model is based on the legendary Mesa/Boogie® Mark II C+™* amp head (LEAD channel). Now you have one of the hottest amp tones: Tight, focused rhythm riffs and the legendary "liquid lead" tone. This amp gets the aeons of sustain Metallica and Dream Theater bet their lives on.	Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Bass/Treble Shift: Switches extra bass/treble on/off Deep: Switches extra low end on/off Bright: Switches extra brightness on/off
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FX Title	Description	Parameters & Ranges
Messe IV	The classic Boogie Lead sound...and beyond. This model is based on the legendary Mesa/Boogie® Mark IV™* amp head (LEAD channel). This massive lead tone is one of the most beautifully voiced tones that can always be heard in a mix.	Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Fat: Switch on to get a fatter sound Bright: Switches extra brightness on/off Voicing: Selects from two voicings: Mid Gain (a punchier sound with more mids and distortion)/Harmony (a more balanced sound)
Rector Dual V	This model is based on an enduring rock' n' roll icon: the legendary Mesa/Boogie® Dual Rectifier® amp head (CH3, vintage). Music industry genres and scenes have come and gone since its first release in early 1990's, but this amp's monolithic heavy sound continues to be the standard for modern heavy rock.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Rector Dual M	This model is based on an enduring rock' n' roll icon: the legendary Mesa/Boogie® Dual Rectifier® amp head (CH3, modern). Music industry genres and scenes have come and gone since its first release in early 1990's, but this amp's monolithic heavy sound continues to be the standard for modern heavy rock.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Tang R100	This model is based on the famous Orange® Rockerverb 100™* amp head, Orange®*'s first high gain amplifier. Its unique thick voice has become eternally linked with hard rock/stoner rock.	Gain: Controls the gain amount (pre gain) Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Eddie 51	This model is based on a heavy rock legend: the Peavey® 5150® (LEAD channel). The original is famous for its raw tone and relentless power. Our Eddie 51 gives you the "brown metal" sound heard on legendary heavy metal records.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Engle Saga 1	This model is based on the famous ENGL® Savage 120 E610* amp head (Channel 4, contour off). This replica reproduces the iconic modern German rock sound featuring fast response, enhanced headroom and punchy dynamics.	Input: Controls the input sensitivity Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Voice: Selects overall sound character from Rough to Smooth Depth Boost: Switches extra resonance on/off

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FX Title	Description	Parameters & Ranges
Engle Saga 2	This model is based on the famous ENGL® Savage 120 E610* amp head (Channel 4, contour on). This replica reproduces the iconic modern German rock sound featuring fast response, enhanced headroom and punchy dynamics.	Input: Controls the input sensitivity Gain: Controls the gain amount Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Voice: Selects overall sound character from Rough to Smooth Depth Boost: Switches extra resonance on/off
Dizzle VH	This model is based on the 4th channel of the famous Diezel® VH4* amp head. Born in 1994, the VH4 set an incredibly high benchmark for boutique multi-channel amps, quickly making it a stage and studio standard.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone
Petrus Lead	Hotone's next-gen effect algorithms! Leading a qualitative leap in both hearing and playing. This model recreates the sound characteristics of the famous Mesa/ Boogie® JP-2C™* amp (CH3), John Petrucci's signature amp head, delivering a huge lead tone with clarity that suits for every shredder.	Gain: Controls the gain amount (pre gain) Presence: Controls the effect headroom Master: Controls the effect output (post gain) Bass/Middle/Treble: 3-band EQ that controls the effect tone Pull Gain: Turn on for extra gain Pull Pres: Turn on for extra headroom Shred: Turn on for a more shredder-friendly voicing
Bass		
Ampage Classic	This model is based on the legendary Ampeg® SVT* bass amp head. Born in 1969, the rich sounding all-tube monster basically defined the bass sound of rock and roll from then on. We modified the Frequency switch with a modern Ampeg® design for more tonal flexibility.	Gain: Controls the gain amount Master: Controls the effect output Midrange: Selects the center frequency of Midrange control: 220Hz/450Hz /800Hz/1.6kHz/3kHz Bass/Middle/Treble: 3-band EQ that controls the effect tone
Voxy Bass	This model is based on the sound characteristics of the legendary VOX® AC-100* amp head, the amp that McCartney was using in 1965. The operation is simple: just treble, bass, and volume controls. Using a violin bass with this amp will totally get you THAT vibe.	Volume: Controls the output volume (post gain) Bass/Treble: 2-band EQ that controls the effect tone*The mentioned manufacturers and product names are trademarks or registered trademarks of the respective owners. The trademarks were used merely to identify the sound character of the products.
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FX Title	Description	Parameters & Ranges
Ampage Flip	This model is based on the legendary Ampeg® B-15* "Flip Top" bass amp head. Originally designed by Jess Oliver, the easy-to-use amp produces incredible round, full-figured tone for which many have deemed it the holy grail of bass amps. Now it's finally within reach!	Volume: Controls the effect output Bass/Treble: 2-band EQ that controls the effect tone
Alchemy Pre	This model is based on the legendary Alembic™ F-2B* rack-mount bass preamp. It recreates the rich, magical tube sound that made the F-2B* a classic. This treatment is not just for bass– it's awesome on guitars (think Gilmour) and more!	Volume: Controls the effect output Bright: Switches extra brightness on/off Bass/Middle/Treble: 3-band EQ that controls the effect tone
AC Pre 1	This model is an acoustic preamp based on the famous AER® Colourizer 2*, which makes dull sounds come alive by enriching your acoustic sound with full dynamics and harmonics.	Volume: Controls the effect output Tone Mix: Controls the tone control balance; set to 0 to disable tone control Tone Depth: Controls the tone brightness EQ Freq: Controls the EQ center frequency from 90Hz to 1.6kHz EQ Q: Controls the EQ bandwidth EQ Gain: Controls the EQ boost/cut amount; set to 50 to keep neutral Enhancer: Controls tone enhancement amount; turn to minimum (off) to disable enhancer
AC Pre 2	This model is an acoustic preamp based on the famous AER® Colourizer 2*, which makes dull sounds come alive by enriching your acoustic sound with full dynamics and harmonics.	Volume: Controls the effect output Tone Mix: Controls the tone control balance; set to 0 to disable tone control Tone Depth: Controls the tone brightness EQ Freq: Controls the EQ center frequency from 680Hz to 11kHz EQ Q: Controls the EQ bandwidth EQ Gain: Controls the EQ boost/cut amount; set to 50 to keep neutral Enhancer: Controls tone enhancement amount; turn to minimum (off) to disable enhancer
Sound Clone	This slot is for loading Sound Clone (.clo) file.	Gain: Controls the effect gain amount Volume: Controls the effect output Bass/Middle/Treble: 3-band EQ that controls the effect tone

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FX Title	Description	Parameters & Ranges
CAB		
Guitar S		
Gibby 1x10	Based on a Gibson® 1x10" cabinet	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
Tweed 1x10	Based on a Fender® Tweed 1x10" cabinet	
Tweed 1x12	Based on a Fender® Tweed 1x12" cabinet	
Black 1x12	Based on a Fender® 1x12" cabinet	
UK 1x12	Based on a Marshall® 1x12" cabinet	
Tang 1x12	Based on a Orange® PPC112 cabinet	
Voxy 1x12	Based on a Vox® AC15 1x12" cabinet	
Black 2x12	Based on a Fender® Twin Reverb 2x12" cabinet	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
Voxy 2x12	Based on a Vox® AC30 2x12" cabinet	
Jazz 2x12	Based on famous "JC clean" 2x12" cabinet	
Stone 2x12	Based on a Two-Rock® 2x12" cabinet	
Match 2x12	Based on a Matchless® 2x12" cabinet	
UK 2x12	Based on a Marshall® 2x12" cabinet	
Glacian 2x12	Based on a Bogner® Shiva 2x12" cabinet	
Superstar 2x12	Based on a Mesa/Boogie® Lone Star 2x12" cabinet	
Messe 2x12	Based on a Mesa/Boogie® 2x12" cabinet	
Rector 2x12	Based on a Mesa/Boogie® Rectifier® 2x12" cabinet	
Guitar L		

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FX Title	Description	Parameters & Ranges
Tweed 4x10	Based on a Fender® Tweed* 4x10" cabinet	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
UK 4x10	Based on a Marshall® 1965B cabinet	
Glacian 4x10	Based on a Bogner® Shiva 4x10" cabinet	
UK 4x12A	Based on a Marshall® 1960AX cabinet	
UK 4x12B	Based on a Marshall® 1960B cabinet	
UK 4x12C	Based on a vintage Marshall® cabinet	
UK 4x12D	Based on a famous UK-style boutique 4x12" cabinet	
UK T75 4x12	Based on a Marshall® 4x12" cabinet	
Messe 4x12	Based on a Mesa/Boogie® 4x12" cabinet	
Rector 4x12A	Based on a Mesa/Boogie® Rectifier® 4x12" cabinet	
Rector 4x12B	Based on a Mesa/Boogie® Rectifier® 4x12" cabinet	
Eddie 4x12	Based on an EVH® 4x12" cabinet	
Boger 4x12	Based on a Bogner® 4x12" cabinet	
Engle 4x12	Based on an ENGL® 4x12" cabinet	
Soloist 4x12	Based on a Soldano® 4x12" cabinet	
Tang 4x12	Based on an Orange® PPC412 cabinet	
Dizzle 4x12	Based on a Diezel® 4x12" cabinet	
Bass		
Flip Top 1x15	Based on an Ampeg® B-15N cabinet	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
Worker 1x15	Based on a SWR® Workingman's 1x15" cabinet	
Ampage 2x10	Based on an Ampeg® SVT-210AV cabinet	
Mark 4x10	Based on a Mark Bass® 4x10" cabinet	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
Adam 4x10	Based on an Eden® 4x10" cabinet	
Worker 4x10	Based on a SWR® Workingman's 4x10" cabinet	
GK 4x10	Based on a Gallien-Krueger® CX410 cabinet	
Ampage 4x10	Based on an Ampeg® SVT-410HLF cabinet	
Ampage 8x10	Based on an Ampeg® SVT-810E cabinet	
Celestion		
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FX Title	Description	Parameters & Ranges
Blue 1x12	Based on a Celestion® Alnico Blue speaker	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
G12H Ann 2x12	Based on Celestion® G12H Anniversary speakers	
G12M 2x12	Based on Celestion® Creamback speakers	
Green 4x12	Based on Celestion® Greenback speakers	
V30 4x12	Based on Celestion® Vintage 30® speakers	
Acoustic		
Dreadnought 1	Based on a Dreadnought acoustic guitar	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
Dreadnought 2	Based on a Dreadnought acoustic guitar	
Orchestral	Based on an OM type acoustic guitar	
Jumbo	Based on a jumbo type acoustic guitar	
Hum Bird	Based on a "H-Bird" acoustic guitar	
Auditorium	Based on a GA type acoustic guitar	
Classical	Based on a classical guitar	
Mandolin	Based on a mandolin	
Fretless Bass	Based on a fretless bass guitar	
Double Bass	Based on a double bass	
User IR		
User IR 1~20	Slot for loading IR file	Volume: Controls the output volume Low Cut/High Cut: Cuts the low/high frequency
EQ/MOD		
EQ		
Guitar EQ 1	This is an equalizer made for guitar. You can use this 5-band EQ to control your sound, eliminate unwanted feedback, and expand your tone.	Band 1: 125Hz Band 2: 400Hz Band 3: 800Hz Band 4: 1.6kHz Band 5: 4kHz Use the five bands above to control the EQ level. Volume: Controls the output level

FX Title	Description	Parameters & Ranges
Guitar EQ 2	This is an equalizer made for guitar. You can use this 5-band EQ to control your sound, eliminate unwanted feedback, and expand your tone.	Band 1: 100Hz Band 2: 500Hz Band 3: 1kHz Band 4: 3kHz Band 5: 6kHz Use the five bands above to control the EQ level. Volume: Controls the output level
Bass EQ 1	This is an equalizer made for bass. You can use this 5-band EQ to control your sound, eliminate unwanted feedback, and expand your tone.	Band 1: 33Hz Band 2: 150Hz Band 3: 600Hz Band 4: 2kHz Band 5: 8kHz Use the five bands above to control the EQ level. Volume: Controls the output level
Bass EQ 2	This is an equalizer made for bass. You can use this 5-band EQ to control your sound, eliminate unwanted feedback, and expand your tone.	Band 1: 50Hz Band 2: 120Hz Band 3: 400Hz Band 4: 800Hz Band 5: 4.5kHz Use the five bands above to control the EQ level. Volume: Controls the output level
V-EQ	Our V-EQ is an equalizer based on the legendary Mesa/Boogie®* 5-band graphic EQ module found on Mesa/Boogie® Mark™* Series amps. Put this classic EQ right before your amp or distortion and hear the magic.	Band 1: 80Hz Band 2: 240Hz Band 3: 750Hz Band 4: 2.2kHz Band 5: 6.6kHz Use the five bands above to control the EQ level.
Graphic EQ	This is a 10-band equalizer suitable for any instrument.	Band 1: 31Hz Band 2: 63Hz Band 3: 125Hz Band 4: 250Hz Band 5: 500Hz Band 6: 1kHz Band 7: 2kHz Band 8: 4kHz Band 9: 8kHz Band 10: 16kHz Use the ten bands above to control the EQ level by ±12dB. Volume: Controls the output volume
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FX Title	Description	Parameters & Ranges
Para EQ	This is a 4-band parametric equalizer with low/high shelving filters that suitable for any instrument.	Band 1: 20Hz-2000Hz Band 2, 3: 100Hz-10kHz Band 4: 200Hz-20kHz Use the four bands above to control the center frequency. Q 1-4: Controls the Q bandwidth Gain 1-4: Controls the EQ level by ±12dB Lo/Hi Shelf: Controls the overall low/high EQ level by ±12dB Level: Controls the output level
Chorus		
Chorus	This model is based on the legendary Voodoo Lab® Analog Chorus* pedal. Offering you warm, organic sound and lush harmonics, it has become the standard by which all chorus pedals are measured. Fine tune the two parameters to get your own sound, from subtle doubling to sweet rotation! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Selects the chorus depth from deep to shallow Rate: Controls the chorus speed/tap division value Sync: Switches Tap Tempo sync on/off
Dimension	Based on the legendary 4-button stereo chorus pedal, this Liquid C is more of a "dimension expander" than a chorus effect. Offering 4 finely tuned modes, this model adds unique spatial elements and subtle modulations to which nothing can compare.	Mode: Select from 4 different chorus modes
Bass Cho	This vintage-voiced chorus model is based on the famous ensemble chorus unit that tuned for bass players. Like its cousin, the Choruium B gives you a pure, lush tone. Individual effect level control offers more flexibility for bass. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Output: Controls the effect output Sync: Switches Tap Tempo sync on/off
Flanger		
*The manufacturers and product names mentioned above are trademarks or registered trademarks of their respective owners. The trademarks were used merely to identify the sound character of the products.		

FX Title	Description	Parameters & Ranges
Flanger	This model produces the classic flanging effect originally achieved by manually, independently varying the speed of two tape recorders with the same program material. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the flanger depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Bass Flg	This model achieves the classic flanging effect for bass players. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Neg Flg	This model produces a flanger effect with negative feedback, sounds like deep in the water, very unique flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Vibrato		
Vibrato	The Pulser is a rebirth of the super rare all-analog vintage vibrato pedal, which gives you a classic vibrato sound with true analog warmth. With simple DEPTH and RATE controls, it's easy to tweak your own unique texture, from slight vibes to a full-on wobble. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Phaser		
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FX Title	Description	Parameters & Ranges
O-Phase	This model recreates the warm, rich analog phase sound of the legendary MXR® M101 Phase 90* pedal. Born in 1974, the one-knob orange phaser is an icon that has found a place on millions of pedal boards for over four decades. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
G-Phase	This model produces a sharp phase effect with a wide range from very slow to fast speed. This unique phasing sound has become popular among lots of musicians since 1977. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
S-Phase	This model is based on the legendary and extremely rare 1970s Electro-Harmonix® Small Stone phase shifter* pedal. This original is one of the best analog phaser sounds in the history of music and can be heard on countless rock recordings. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Color: Selects the phaser sound character from warm to sharp Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Minivibe	This model delivers a lush rotating effect that simulates 1960s rotary speakers. Based on the Voodoo Lab® Micro Vibe*, it gives you the pure, "psychedelic" vibe-y taste that guitar heroes like Hendrix and Gilmour loved. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
U-Vibe	This model is based on the legendary vintage Shin-ei® Uni-Vibe® pedal. The Uni-Vibe® was designed to simulate the sound of a rotary speaker, but the "failed" attempt has been embraced as one of the most iconic effects in rock 'n' roll history. Kick it on and feel the legendary psycho sound of the Revolver! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Volume: Controls the effect output Mode: Select from 2 different vibe modes: Chorus and Vibrato Sync: Switches Tap Tempo sync on/off
Rotary		
Rotary	This model is a rotary speaker simulator with detailed control, bringing you the legendary tone adapted by lots of rock legends. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the B. /H. Rate/Div knobs to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio B. Rate/Div: Controls the bass rotating speed/tap division value H. Rate/Div: Controls the horn rotating speed/tap division value Balance: Controls the bass/horn sound balance Tone: Controls the effect tone Bass/Horn Sync: Switches Tap Tempo sync on/off
Tremolo		
Tremolo	This model is based on the legendary Demeter® TRM-1 Tremulator® tremolo pedal. Featuring deep, pulsing optical tremolo sound, it recreates the classic tremolo effect found on many vintage amps but with a greater range of speed and depth. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Pitch		
Detune	This is a detune model which combines a slightly pitch shifted signal with the original signal, producing a lush, chorus-like sound. Use the Dry, Wet and Detune knobs to expand your sonic dimensions.	Dry/Wet: Controls the dry/wet signal level Detune: Controls the detune amount by ±50 cents
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FX Title	Description	Parameters & Ranges
Octa 1	This model is a monophonic octaver that creates notes one octave lower and two octaves lower. Single note processing and individual wet/dry signal control recreate the vintage "dirty" analog octave pedal sounds.	Oct 1: Controls the volume of lower octave (1 oct down) Oct 2: Controls the volume of higher octave (2 octs down) Dry: Controls the dry signal level
Octa 2	This model is a polyphonic octaver that creates notes one octave higher and one octave lower. Individual octave voice control and dry signal control can bring you lots of fun, and polyphonic processing support means playing chords is absolutely no problem.	Hi Level: Controls the volume of higher octave (1 oct up) Low Level: Controls the volume of lower octave (1 oct down) Tone: Controls the effect tone Mix: Controls the wet/dry signal ratio Output: Controls the overall output
Pitch	This model is a polyphonic 2-voice pitch shifter with max. 2 octaves pitch shifting range. Detailed pitch shifting settings can bring you lots of fun.	Pitch 1/2: Controls the voice 1/2 pitch shifting range by ±24 semitones Level 1/2: Controls the voice 1/2 output Tone: Controls the effect tone Mix: Controls the overall dry/wet signal ratio Output: Controls the overall output
A-Harm	This model is a monophonic single voice automatic harmonizer with max. one octave pitch shifting range. Detailed Key, Scale and Interval settings can bring you lots of fun.	Mix: Controls the wet/dry signal ratio of the effect Key: Selects the chord key according to your music Mode: Selects the scale mode according to your music Interval: Selects the interval between wet and dry signal Smooth Mode: Switch on to get a smooth note transition
Special		
Bit Crush	This model is a sweet-sounding bitcrusher/sample rate reducer with full control over the bit resolution and sample rate. Use the low pass filter and high pass filter onboard to get your own sound variations.	Mix: Controls the wet/dry signal ratio of the effect Krush: Controls the sample rate of the effect Bit: Controls the bit resolution of the effect Hi Cut/Lo Cut: Controls the high/low cut filter cutoff frequency
Sweller	This model is an auto swell effect that creating a violin-like tone. Two parameters make it simple.	Attack: Controls how fast the effect swells the input signal Curve: Selects the volume swell curve
Filter		
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FX Title	Description	Parameters & Ranges
T-Wah G	This is an envelope filter designed for guitars, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
T-Wah B	This is an envelope filter designed for basses, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
A-Wah	Designed for for both guitars and basses, this auto wah has many parameters for shaping the tone of your wah sound. Start with the frequency range adjustment to decide the basic flavor of your wah-wah. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Low/High: Controls the filter frequency range Volume: Controls the effect output Q: Controls the filter sharpness Sync: Switches Tap Tempo sync on/off
Pattern	This model is a pattern filter machine for creating synth-like sounds. It provides max. 8 steps and 8 different patterns. A rate control sets the sequencing speed. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/8.	Step: Selects the numbers of steps Patten: Selects from 8 different sequencing patterns Rate/Div: Controls the effect speed/tap division value Shape: Controls the filter width Reso: Controls the filter resonance Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
FX 1		
Chorus		
Chorus	This model is based on the legendary Voodoo Lab® Analog Chorus* pedal. Offering you warm, organic sound and lush harmonics, it has become the standard by which all chorus pedals are measured. Fine tune the two parameters to get your own sound, from subtle doubling to sweet rotation! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Selects the chorus depth from deep to shallow Rate: Controls the chorus speed/tap division value Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
Dimension	Based on the legendary 4-button stereo chorus pedal, this Liquid C is more of a "dimension expander" than a chorus effect. Offering 4 finely tuned modes, this model adds unique spatial elements and subtle modulations to which nothing can compare.	Mode: Select from 4 different chorus modes
Bass Cho	This vintage-voiced chorus model is based on the famous ensemble chorus unit that tuned for bass players. Like its cousin, the Choruium B gives you a pure, lush tone. Individual effect level control offers more flexibility for bass. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Output: Controls the effect output Sync: Switches Tap Tempo sync on/off
Flanger		
Flanger	This model produces the classic flanging effect originally achieved by manually, independently varying the speed of two tape recorders with the same program material. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the flanger depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Bass Flg	This model achieves the classic flanging effect for bass players. It produces a rich, natural flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Neg Flg	This model produces a flanger effect with negative feedback, sounds like deep in the water, very unique flanging tone. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Pre Dly: Controls the pre delay time FB: Controls the amount of feedback Sync: Switches Tap Tempo sync on/off
Vibrato		
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FX Title	Description	Parameters & Ranges
Vibrato	The Pulser is a rebirth of the super rare all-analog vintage vibrato pedal, which gives you a classic vibrato sound with true analog warmth. With simple DEPTH and RATE controls, it's easy to tweak your own unique texture, from slight vibes to a full-on wobble. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Phaser		
O-Phase	This model recreates the warm, rich analog phase sound of the legendary MXR® M101 Phase 90* pedal. Born in 1974, the one-knob orange phaser is an icon that has found a place on millions of pedal boards for over four decades. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
G-Phase	This model produces a sharp phase effect with a wide range from very slow to fast speed. This unique phasing sound has become popular among lots of musicians since 1977. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
S-Phase	This model is based on the legendary and extremely rare 1970s Electro-Harmonix® Small Stone phase shifter* pedal. This original is one of the best analog phaser sounds in the history of music and can be heard on countless rock recordings. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Color: Selects the phaser sound character from warm to sharp Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Rotary		
Minivibe	This model delivers a lush rotating effect that simulates 1960s rotary speakers. Based on the Voodoo Lab® Micro Vibe*, it gives you the pure, "psychedelic" vibe-y taste that guitar heroes like Hendrix and Gilmour loved. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
U-Vibe	This model is based on the legendary vintage Shin-ei® Uni-Vibe® pedal. The Uni-Vibe® was designed to simulate the sound of a rotary speaker, but the "failed" attempt has been embraced as one of the most iconic effects in rock 'n' roll history. Kick it on and feel the legendary psycho sound of the Revolver! You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Volume: Controls the effect output Mode: Select from 2 different vibe modes: Chorus and Vibrato Sync: Switches Tap Tempo sync on/off
Rotary	This model is a rotary speaker simulator with detailed control, bringing you the legendary tone adapted by lots of rock legends. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the B. /H. Rate/Div knobs to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio B. Rate/Div: Controls the bass rotating speed/tap division value H. Rate/Div: Controls the horn rotating speed/tap division value Balance: Controls the bass/horn sound balance Tone: Controls the effect tone Bass/Horn Sync: Switches Tap Tempo sync on/off

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FX Title	Description	Parameters & Ranges
Tremolo		
Tremolo	This model is based on the legendary Demeter® TRM-1 Tremulator® tremolo pedal. Featuring deep, pulsing optical tremolo sound, it recreates the classic tremolo effect found on many vintage amps but with a greater range of speed and depth. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Sync: Switches Tap Tempo sync on/off
Pitch		
Detune	This is a detune model which combines a slightly pitch shifted signal with the original signal, producing a lush, chorus-like sound. Use the Dry, Wet and Detune knobs to expand your sonic dimensions.	Dry/Wet: Controls the dry/wet signal level Detune: Controls the detune amount by ±50 cents
Octa 1	This model is a monophonic octaver that creates notes one octave lower and two octaves lower. Single note processing and individual wet/dry signal control recreate the vintage "dirty" analog octave pedal sounds.	Oct 1: Controls the volume of lower octave (1 oct down) Oct 2: Controls the volume of higher octave (2 octs down) Dry: Controls the dry signal level
Octa 2	This model is a polyphonic octaver that creates notes one octave higher and one octave lower. Individual octave voice control and dry signal control can bring you lots of fun, and polyphonic processing support means playing chords is absolutely no problem.	Hi Level: Controls the volume of higher octave (1 oct up) Low Level: Controls the volume of lower octave (1 oct down) Tone: Controls the effect tone Mix: Controls the wet/dry signal ratio Output: Controls the overall output
Pitch	This model is a polyphonic 2-voice pitch shifter with max. 2 octaves pitch shifting range. Detailed pitch shifting settings can bring you lots of fun.	Pitch 1/2: Controls the voice 1/2 pitch shifting range by ±24 semitones Level 1/2: Controls the voice 1/2 output Tone: Controls the effect tone Mix: Controls the overall dry/wet signal ratio Output: Controls the overall output

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FX Title	Description	Parameters & Ranges
A-Harm	This model is a monophonic single voice automatic harmonizer with max. one octave pitch shifting range. Detailed Key, Scale and Interval settings can bring you lots of fun.	Mix: Controls the wet/dry signal ratio of the effect Key: Selects the chord key according to your music Mode: Selects the scale mode according to your music Interval: Selects the interval between wet and dry signal Smooth Mode: Switch on to get a smooth note transition
Special		
Bit Crush	This model is a sweet-sounding bitcrusher/sample rate reducer with full control over the bit resolution and sample rate. Use the low pass filter and high pass filter onboard to get your own sound variations.	Mix: Controls the wet/dry signal ratio of the effect Krush: Controls the sample rate of the effect Bit: Controls the bit resolution of the effect Hi Cut/Lo Cut: Controls the high/low cut filter cutoff frequency
Sweller	This model is an auto swell effect that creating a violin-like tone. Two parameters make it simple.	Attack: Controls how fast the effect swells the input signal Curve: Selects the volume swell curve
Filter		
T-Wah G	This is an envelope filter designed for guitars, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
T-Wah B	This is an envelope filter designed for basses, offering you a wide range of tonal variety. Set the Sense, Range, and Q parameters to fit your instrument and playing style.	Sense: Controls the effect sensitivity Range: Controls the filter frequency range Q: Controls the filter sharpness Level: Controls the output level
A-Wah	Designed for for both guitars and basses, this auto wah has many parameters for shaping the tone of your wah sound. Start with the frequency range adjustment to decide the basic flavor of your wah-wah. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Depth: Controls the effect depth Rate/Div: Controls the effect speed/tap division value Low/High: Controls the filter frequency range Volume: Controls the effect output Q: Controls the filter sharpness Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
Pattern	This model is a pattern filter machine for creating synth-like sounds. It provides max. 8 steps and 8 different patterns. A rate control sets the sequencing speed. You can use Tap Tempo function to control the effect speed by turning on the Sync switch. When the Sync switch is on, turn the Rate/Div knob to set a proper tap divide value. The default value is 1/8.	Step: Selects the numbers of steps Patten: Selects from 8 different sequencing patterns Rate/Div: Controls the effect speed/tap division value Shape: Controls the filter width Reso: Controls the filter resonance Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Delay		
Digi Dly	This model is a stereo digital delay that produces a pure clean delay sound, clear and accurate. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Ana Dly	This model is a stereo analog delay that captures the sound of a vintage analog delay machine: warm and natural, just like old times! You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
BBD Dly	This is a stereo analog delay model that captures the sound of a BBD based analog delay machine that is warm, smooth, rounded due to the limitation of BBD chips. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off

FX Title	Description	Parameters & Ranges
Tape Dly	This is a stereo delay model that captures the characteristics of the sound of a tape echo machine. Just plug in and play, and time flows back! You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Amb Dly1	This model is a multi-tap delay that brings you expanded sound spaciousness. 1, 2 stands for different tonal variations. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Mod: Controls the effect modulation amount Tone: Controls the effect tone Sync: Switches Tap Tempo sync on/off
Amb Dly2	This model is a multi-tap delay that brings you expanded sound spaciousness. 1, 2 stands for different tonal variations. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Mod: Controls the effect modulation amount Tone: Controls the effect tone Sync: Switches Tap Tempo sync on/off
Rev Dly	This is a delay model that reverses the original sound. It's like we recorded your sound with a tape recorder and then played it backwards. That's where this model goes. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
P-Pong	This model is a ping-pong delay producing stereo feedback that bounces back and forth between the left and right channels. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off

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FX Title	Description	Parameters & Ranges
LoFi Dly	This delay model comes with a bitcrusher that affects only the delay repeats, producing lo-fi'd feedback. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Crush: Controls the effect downsampling rate Bit: Controls the effect bit depth reducing amount Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Icy Dly	This is a special delay effect that combining normal feedback with pitch shifted slices. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio Time/Div: Controls the delay time/tap division value FB: Controls the amount of feedback Mod: Controls the effect modulation amount Tone: Controls the effect tone Pitch: Selects pitch shifting interval of the slices Slice: Choose audio signal slicing length Direction: Controls audio slice playback direction Blend: Controls the ratio between normal/ pitch shifted feedback Smooth: Controls the feedback attack Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Multi Tap	This is a multitap delay recreating the sound characteristics of a multi-head tape echo unit. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio Time/Div: Controls the delay time/tap division value Feedback: Controls the amount of feedback Tone: Controls the effect tone Mode: Selects a tape head mode Mod: Controls the effect modulation amount Gain: Controls the effect gain amount Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
FX 2		
Delay		
Digi Dly	This model is a stereo digital delay that produces a pure clean delay sound, clear and accurate. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off

FX Title	Description	Parameters & Ranges
Ana Dly	This model is a stereo analog delay that captures the sound of a vintage analog delay machine: warm and natural, just like old times! You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
BBD Dly	This is a stereo analog delay model that captures the sound of a BBD based analog delay machine that is warm, smooth, rounded due to the limitation of BBD chips. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Tape Dly	This is a stereo delay model that captures the characteristics of the sound of a tape echo machine. Just plug in and play, and time flows back! You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Amb Dly1	This model is a multi-tap delay that brings you expanded sound spaciousness. 1, 2 stands for different tonal variations. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Mod: Controls the effect modulation amount Tone: Controls the effect tone Sync: Switches Tap Tempo sync on/off
Amb Dly2	This model is a multi-tap delay that brings you expanded sound spaciousness. 1, 2 stands for different tonal variations. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Mod: Controls the effect modulation amount Tone: Controls the effect tone Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
Rev Dly	This is a delay model that reverses the original sound. It's like we recorded your sound with a tape recorder and then played it backwards. That's where this model goes. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
P-Pong	This model is a ping-pong delay producing stereo feedback that bounces back and forth between the left and right channels. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value of left channel Time R%: Controls the delay time of right channel (time ratio of left channel) Spread: Controls the effect stereo width Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
LoFi Dly	This delay model comes with a bitcrusher that affects only the delay repeats, producing lo-fi'd feedback. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio FB: Controls the amount of feedback Time/Div: Controls the delay time/tap division value Crush: Controls the effect downsampling rate Bit: Controls the effect bit depth reducing amount Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Icy Dly	This is a special delay effect that combining normal feedback with pitch shifted slices. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio Time/Div: Controls the delay time/tap division value FB: Controls the amount of feedback Mod: Controls the effect modulation amount Tone: Controls the effect tone Pitch: Selects pitch shifting interval of the slices Slice: Choose audio signal slicing length Direction: Controls audio slice playback direction Blend: Controls the ratio between normal/ pitch shifted feedback Smooth: Controls the feedback attack Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
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FX Title	Description	Parameters & Ranges
Multi Tap	This is a multitap delay recreating the sound characteristics of a multi-head tape echo unit. You can use Tap Tempo function to control the delay time by turning on the Sync switch. When the Sync switch is on, turn the Time/Div knob to set a proper tap divide value. The default value is 1/4 (no division).	Mix: Controls the wet/dry signal ratio Time/Div: Controls the delay time/tap division value Feedback: Controls the amount of feedback Tone: Controls the effect tone Mode: Selects a tape head mode Mod: Controls the effect modulation amount Gain: Controls the effect gain amount Level: Controls the effect output Sync: Switches Tap Tempo sync on/off
Reverb		
Room	This reverb model recreates the spaciousness of a room.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
Hall	This reverb model recreates the spaciousness of a concert hall.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
Plate	This reverb model simulates a plate reverberator.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
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FX Title	Description	Parameters & Ranges
Spring	This reverb model simulates the sound coming from a vintage tube driven spring reverb unit.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
Shimmer	This reverb model creates a lush, shimmering reverb sound.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
Cloud	This reverb model creates a huge, thick reverb effect like curly clouds in the sky.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount
Linings	This reverb model creates a huge, lush reverb effect like silver linings of clouds in the sky.	Mix: Controls the wet/dry signal ratio Pre Dly: Controls the amount of time between the dry signal and the audible onset of early reflections and the reverb tail Decay: Controls the duration of reverb time Low Damp/Hi Damp: Dampens the effect low/high frequency amount Mod: Controls the effect modulation amount