




**Blackstar**<sup>®</sup>  
AMPLIFICATION

the sound in your head

 Designed and Engineered by  
Blackstar Amplification UK

**JLN 50 PLUGIN**

**Owners' Manual**

VERSION 1.1.0 (AND LATER)

## Introduction

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Our mission is to design the ultimate tools for self-expression for guitarists. Since 2007, Blackstar was founded in Northampton, England, we have launched countless award-winning products that inspire guitarists around the globe.

The software amplifier featured in JLN 50 Plugin is designed to replicate the real JLN 50 signature amplifier and has been made by the same design team who created the benchmark product ranges of Artisan, Series One, ID:Series and St. James. By applying decades of world-class real-world amplifier design experience, the JLN 50 Plugin delivers the “BLUESPOWER” tone of the real JLN 50 valve amplifier in a visually stunning, low-latency package that is easy to use and will set new standards in the live and studio / recording world.

*“Anyone who knows me, knows I love authentic pure tube driven tone. I have a no compromise attitude when it comes to my guitar sound. The JLN plug-in completely nails everything I need...touch, tone, and feel. Simply put, Blackstar is the absolute game changer & new benchmark in the evolving world of digital amplification!”*

**Jared James Nichols**

### Find your tone using:

#### JLN 50 Amp

- EL34 Vintage clean to “BLUESPOWER” mid-gain tones, and more.

#### Pre FX Pedals

- Overdrive
- Distortion
- OctoFuzz

#### CabRig

- 9 iconic Blackstar speaker cabinets and combos, including JLN Signature 2x12 and 4x12
- 6 Industry standard microphones
- Fully configurable virtual room environment
- Comprehensive mix controls
- Custom IR loader

#### Post FX Pedals

- Tape Delay
- Vibe
- Rotary
- Verb

#### Analogue EQ emulation

- 4 semi-parametric EQ bands
- Low Cut and High Cut
- Individual band bypass

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## Getting Started

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### Basic Requirements

In order to use the Blackstar JJN 50 Plugin you will need:

A computer running a supported operating system.

The most recent version of the iLok License Manager application and an iLok account.

If you have purchased the full version of the JJN 50 Plugin, you will also need an activation code from the Blackstar Plugins website.

To use the Blackstar JJN 50 Plugin within a DAW instead of as a standalone application, you will also need a supported DAW software.

### Compatibility and Formats

Blackstar plugins are available in multiple formats, as well as having standalone versions. We provide the following formats:

- VST3
- AU
- AAX
- Standalone Application

### Supported Operating Systems

- macOS 10.15 and later
- Windows 8 and later

### Supported DAWs

- Pro Tools 2023.6 or later, Mac & PC - AAX Native
- Logic Pro X 10.7.8 or later - AU
- Cubase 12.0.60 or later, Mac & PC - VST
- Ableton Live 11.0 or later, Mac & PC - Mac: AU & VST; Windows: VST
- Reaper 6.80 or later, Mac & PC - Mac: AU & VST; Windows: VST
- Presonus Studio One 6.1.0 or later, Mac & PC - Mac: AU & VST; Windows: VST
- FL Studio 21.0.3 or later, Mac & PC - VST
- Reason 12.5.1 or later, Mac & PC - VST

### Downloading

You can download the plugin installers from:

[www.blackstarplugins.com](http://www.blackstarplugins.com)

For details on how to purchase a licence or to start a free trial, please see the relevant sections below.

After going through the process of obtaining either a full licence or a free trial as outlined in the section below, you will be provided with a download option for Mac and a download option for Windows. Please click on the appropriate download for your operating system. The download will begin automatically.

## Getting Started

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### Installing

Once the download is complete, unpack/extract the zip folder and open the installer inside. Follow the onscreen instructions to install your new software.

### File Directories

The Blackstar JJN 50 Plugin will install as default into the following directories.

#### macOS

- AU:  
Macintosh HD/Library/Audio/Plug-ins/Components/
- VST3:  
Macintosh HD/Library/Audio/Plug-ins/VST3/
- AAX:  
Macintosh HD/Library/Application Support/Avid/Audio/Plug-ins/
- Standalone App:  
Macintosh HD/Applications/

#### Windows

- VST3:  
C:/Program Files/Common Files/VST3/
- AAX:  
C:/Program Files/Common Files/Avid/Audio/Plug-Ins/
- Standalone App:  
C:/Program Files/Blackstar/

### Free Trial

You can try the plugin free for 14 days. Click on “FREE TRIAL” at the top of the plugin website. Enter your email and iLok ID. If you don’t already have an iLok account, click “Create one now”. Complete the checkout process, then download and run the plugin installer. Make sure you have the latest version of the iLok License Manager installed on your machine. Open the iLok License Manager and double-click on your license, then click “Activate”.

Now you are ready to use the plugin in your DAW(s) and standalone.

### Full License

To purchase a full license, click on “add to cart” on the plugin website. Enter your email and iLok ID. If you don’t already have an iLok account, click “Create one now”. Complete the checkout process, then download and run the plugin installer.

Make sure you have the latest version of the iLok License Manager installed on your machine. Open the iLok License Manager and double-click on your license, then activate. If you have already been using a free trial, double-click on your free trial license, then click “Deactivate”. You will not need to do this if your free trial has already expired.

**NOTE:** Your JJN 50 Plugin license can be activated on up to three different computers.

# Overview



## Header Bar



### Preset Box

The current preset will be displayed in the centre of the top bar. Clicking on the arrows will cycle through your saved presets. You can favourite the current preset clicking on the Heart icon and favoured presets will appear in the favourites folder in the preset menu.

### Preset Menu

To open the preset menu, click on the preset box. All saved presets will appear here, organised by folder. Click on the arrow icons to open each folder and load a preset by clicking on it.

Search for specific preset names by clicking on the search bar in the preset menu and typing out the appropriate preset name. Searching will return results from all folders.

Use the Import button to add non-factory presets to the JJN 50 Plugin, such as preset packs or presets made by another user. Click on the Import button, browse to the relevant directory and select the preset files you wish to import.

Use the Export button to export presets you have created and saved whilst using the JJN 50 Plugin, in order to transfer them to another computer or give them to another user. Click on the Export button, select the presets you wish to export and choose the directory you want to export them to.

### MIDI (standalone version)

Click on the MIDI port icon to view the MIDI menu. From this menu you can enter/exit MIDI Learn, open the MIDI Map, or reset all MIDI mappings. For more information on MIDI please see the MIDI section (page 19).

### Settings

Click on the Settings icon to view the settings for the JJN 50 Plugin. For the standalone version, settings is where you can configure your audio device IO and/or select your MIDI devices. You can also reset the plugin to the default state from the settings menu.

### Info Box

All parameter adjustments will be displayed in the Info box on the right side of the top bar. This can be used for fine adjustment of controls and when setting tempo sync divisions.

## Footer Bar



### Input

Use the Input Level meters on the left of the footer bar to view the signal level into your JJN 50 Plugin. The input level can be adjusted using the Input control next to the Input Level meters.

**NOTE:** The Input Level meters will display when clipping occurs with red Clip Indicators at the top of the meter bar. If clipping occurs, turn down the Input control and clear the Clip Indicators by clicking on them.

### Gate

The Gate control affects the threshold of the Noise Gate. Turning the Gate control up will increase the threshold and result in lower-level signals, such as noise, being muted. To turn the Noise Gate off, turn the Gate control all the way down.

**NOTE:** Turning the Gate control up too high may result in your guitar signal being affected. To set the Noise Gate correctly, turn the Gate control up slowly until the unwanted noise is only just muted.

### Mono/Stereo Switch

The Mono/Stereo switch affects the input configuration of your JJN 50 Plugin. When the switch is set to Mono, there will be a single mono input to the plugin and when the switch is set to Stereo, the input to the plugin will be stereo across a pair of channels.

### Signal Chain

The signal chain is shown in the centre of the footer bar. The plugin modules shown in the signal chain are applied to your guitar signal in this exact order.

To navigate to a module page, click on the Page button you want to navigate to. The button will depress and the page will be shown in the main plugin window.

Individual modules can be activated and deactivated using the On/Off buttons next to the Page buttons. When a module is active, the On/Off button will be lit.

### Tuner

Clicking on the tuning fork icon will open the Tuner window. To close the Tuner window click on the tuning fork icon again, the 'X' button in the top left or anywhere on the background behind the Tuner window. For more information on the Tuner please see the Tuner section (page 11).

### Output and Window Size

Use the Output Level meters on the right of the footer bar to view the signal level coming out of your JJN 50 Plugin. The output level can be adjusted using the Output control next to the Output Level meters.

Adjust the overall window size by clicking on the resize icon on the far right of the footer bar.

**NOTE:** The Output Level meters will display when clipping occurs with red Clip Indicators at the top of the meter bar. If clipping occurs, turn down the Output control and clear the Clip Indicators by clicking on them.

## AMP

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The JJN 50 Plugin includes the software version of the JJN 50 valve amplifier.

### JJN 50 Amp



Channel I of the JJN 50 is a direct expression of Jared James Nichols' love for clean and dynamic tones, simultaneously drawing inspiration from the classic American amps of the mid '60s. With its enhanced headroom and realistic touch-sensitivity, it provides the perfect sonic foundation—whether using it for transparent cleans or as a versatile pedal platform. Channel I delivers the responsiveness and clarity needed to embody the raw energy of Jared's live performance.

Channel II of the EL34-powered JJN 50 perfectly captures the heart of Jared James Nichols' playing style. Known for his aggressive yet soulful approach, this channel delivers the raucous crunch essential for his blues-rock tone while maintaining remarkable clarity and articulation. The vintage-inspired design stays true to the classic EL34 amp sound, with highly responsive dynamics that allow Jared to effortlessly blend power and nuance. The switchable 10dB front-end "BLUES POWER" boost offers an extra level of punch, ideal for when Jared needs his riffs to cut through with added intensity.

# Pre FX



## Pre FX

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Activate any of the Pre FX pedals by clicking on the pedal footswitch. When the pedal is active, the footswitch LED will be lit.

### Overdrive

Experience the legendary tone of our meticulously crafted Overdrive effect, modelled after one of the most sought-after transparent overdrive pedals in history. Known for its ability to provide smooth, warm tones that enhance your guitar's natural sound without overpowering it, this effect is perfect for blues and rock. The Overdrive adds a touch of grit and richness, making your solos stand out with clarity and power. Jared James Nichols relies on this iconic effect for its unique ability to maintain the integrity of his dynamic playing style, and now you can too.

- **Gain:** Controls the amount of overdrive, from subtle to heavy saturation.
- **Treble:** Adjusts the brightness of the tone, shaping the high frequencies.
- **Output:** Sets the overall volume level of the effect.

### Distortion

Our Distortion effect faithfully replicates a drive with screaming distortion tones favoured by countless guitarists. With its signature mid-boost and low-end tightening, this effect is ideal for adding edge to your playing. Whether you're pushing the amp hard or adding a subtle crunch, the Distortion effect delivers a bite that Jared James Nichols uses to ensure every note cuts through with intensity and precision.

- **Drive:** Sets the level of distortion, controlling the grit and intensity.
- **Tone:** Adjusts the balance between bass and treble frequencies.
- **Level:** Controls the output volume of the effect.

### OctoFuzz

Our Distortion effect faithfully replicates a drive with screaming distortion tones favoured by countless guitarists. With its signature mid-boost and low-end tightening, this effect is ideal for adding edge to your playing. Whether you're pushing the amp hard or adding a subtle crunch, the Distortion effect delivers a bite that Jared James Nichols uses to ensure every note cuts through with intensity and precision.

- **Gain:** Controls the fuzz intensity and saturation.
- **Volume:** Adjusts the overall output level of the effect.

# CabRig



## CabRig

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### Microphones

Click on the Mic One or Mic Two box to open the microphone selection panel. Mic up your virtual cabinet with a choice of 6 industry standard microphones.

Toggle the axis of your microphone choice for a different tonal flavour. In general, OFF AXIS will darken your tone and shift the mid-range character.

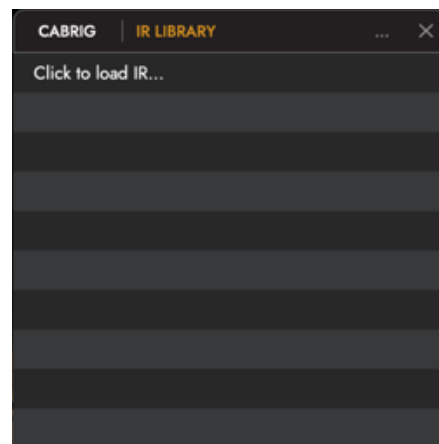
### Cabinets

Click on the Cab One or Cab Two box to open the speaker cabinet selection panel. Choose from one of JJN's signature 2x12 and 4x12 cabinets, or one of 7 iconic Blackstar speaker cabinets and combos, for a total of 9 varied cab options.

### Custom IR Files

You can load your own IR files. Click on the Cab One or Cab Two box to open the speaker cabinet selection panel, then select the IR LIBRARY tab. You can also clear the IR LIBRARY or load IR files in the "...” menu.

Thanks to Blackstar's intelligent behind-the-scenes processing, each IR is automatically phase-aligned and optimized for smooth, hassle-free integration—no hassle, just tone.



### Room

Select the size of the virtual room using the Size drop-down and the level of the room mics by adjusting the Room knob.

Adjust the stereo width of your room choice using the Width drop-down. These are emulations of three different micing techniques.

### Mix Controls

Balance the levels of your cabs using the Channel Faders and craft your stereo image using the pan sliders. Use the solo buttons to isolate Cab One or Cab Two, or the mute buttons to silence them.

# Post FX



## Post FX

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The Post FX are placed after the virtual microphone and cab in the signal chain. Therefore, these effects can be viewed as outboard effects sends rather than effects pedals in the FX loop of an amplifier. This allows for stereo effects to be applied to your sound regardless of your cab and mic panning configuration in the CabRig module.

### Tape Delay

The Tape Delay effect delivers a warm, vintage delay effect that has been a staple in studios for decades. Used by some of the most notable electric guitar players of the 1960s and 1970s, this effect adds depth, character, and modulation to your playing, perfect for creating atmospheric leads and rhythmic textures. Inspired by Jared James Nichols' latest album, we've reimagined the Tape Delay in pedal format, ensuring that every repeat and modulation is faithfully captured.

- **Time:** Adjusts delay time; syncs to BPM when enabled.
- **Feedback:** Controls the number of repeats.
- **Saturation:** Adjusts tape saturation for a driven sound.
- **Level:** Sets the output volume of the effect.
- **Vintage/Ancient (switch):** Selects the age of the tape for tonal variation, including analogue tape hiss and warble.
- **Sync On/Off (switch):** Enables BPM sync for time adjustments.

### Vibe

Featuring vibey, psychedelic modulation, the Vibe effect offers hallmark sounds from the 60's era often used by iconic guitarists of the time. This classic effect delivers rich chorus and vibrato tones, adding unique sonic movement. We've recreated this effect's hypnotic modulation with Jared James Nichols' guidance, adding a "throb" control for extra pulsing intensity and extreme depth.

- **Volume:** Adjusts the output volume.
- **Intensity:** Controls the depth of the oscillation.
- **Speed:** Adjusts the oscillation speed; syncs to BPM when enabled.
- **Throb:** Intensifies low-frequency pulsing.
- **Chorus/Vibrato (switch):** Switches between chorus and vibrato modes.
- **Sync On/Off (switch):** Enables BPM sync for speed control.

## Post FX

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### Rotary

Explore the rich, rotating sounds of our Rotary effect. Inspired by a classic rotary speaker, this effect adds a unique movement and texture to your guitar tone. Whether used with clean or overdriven settings, it creates a distinctive sonic landscape that enhances your playing. Jared James Nichols worked with us to capture the authentic character of this vintage effect, transforming it into a versatile pedal that's perfect for achieving both retro and contemporary sounds.

- **Slow:** Adjusts the speed of the slow rotary mode, syncs to BPM when enabled.
- **Fast:** Adjusts the speed of the fast rotary mode, syncs to BPM when enabled.
- **Level:** Sets the overall output volume.
- **Drum/Horn:** Blends between drum and horn rotation sounds.
- **Blend:** Mixes the dry and wet signals.
- **Noise On/Off (switch):** Toggles the mechanical noise of the speaker.
- **Sync On/Off (switch):** Enables BPM sync for both Slow and Fast controls.
- **Slow/Fast (footswitch):** Switches between slow and fast rotary speed modes. Speed adjusts incrementally as it would in the real world.

### Verb

Dial in an emulation of the real-world ambiance found on Jared James Nichols' self-titled album, captured in our Verb plugin. Featuring two distinct impulse responses, this reverb plugin replicates the acoustic environment where Jared's latest record was created. Whether you're looking to add a large high-end studio live room ambiance or unique, real world chamber reverb, the Verb provides a versatile and natural-sounding effect that adds depth and realism to your playing.

- **Damping:** Attenuates high frequencies and length.
- **Mix:** Controls the balance between wet and dry sound.
- **Chamber/Live Room (switch):** Switches between two reverb spaces.
- **Wide On/Off (switch):** Expands the stereo width of the effect.

# EQ



## **EQ**

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The EQ module is based on a renowned analogue rack unit famed for its natural sound and effectiveness in elevating electric guitar recordings. It features adjustable high and low cuts as well as four semi-parametric EQ bands.

### **Cuts**

Fine tune the corner frequency of the Low Cut and Hi Cut using the control knobs and bypass each cut individually using the On/Off buttons.

**NOTE:** The Hi Cut control works in reverse to the Low Cut control. For the Hi Cut control, all the way clockwise results in no cut and fully anti-clockwise results in maximum cut.

### **Semi-Parametric Bands**

Each of the Low, Low Mid, Hi Mid and Hi bands feature a four-way selector knob used to change the affected frequency range of the respective band. The fader beneath the four-way selector knob affects the amount of cut or boost applied to that band, from -15dB to +15dB. Each band can be activated and deactivated individually using the On/Off buttons underneath the faders.

## Tuner



### Overview

Clicking on the tuning fork icon in the Footer Bar will open the Tuner window. To close the Tuner window click on the tuning fork icon again, the 'X' button in the top left or anywhere on the background behind the Tuner window.

The Tuner is fully chromatic and features a tuning gauge, note display, tuning reference and mute toggle. The Tuner is capable of accurately tuning guitars in standard tuning as well as extended range.

### Tuner Gauge and Note Display

When playing a note, the Tuner automatically detects the target note and displays this on the note display. The target note detection is affected by the tuning reference (see section on tuning reference for more information).

The gauge displays whether the note being played is flat (to the left of centre) or sharp (to the right of centre) compared to the detected target note and selected tuning reference. The gauge displays across a range of +/- 50 cents, with the centre being the correct tuning for the detected target note.

To tune, adjust the tuning of your instrument to move the amber LED strips on the tuning gauge towards the centre. When the tuning of your instrument is close to the target note, the centre LED strip will be lit in green. When the tuning of your instrument is stable and within +/- 1 cent of the detected target note, the centre LED strip will flash to indicate that the note being played is in tune.

If the detected target note is not the note you want to tune your instrument to, tune your instrument up or down until the furthest reaches (left or right) of the tuner gauge LED strips are reached. Continue tuning until the LED strips disappear and light up on the opposite side of the gauge. The note display will update to indicate the new detected target note.

### Tuning Reference and Mute Toggle

The tuning reference is displayed underneath the note display and shows the tuning reference in Hz. The default and most common tuning reference is 440Hz.

To adjust the tuning reference, click on the tuning reference value and type in a new tuning reference, for example 432Hz. Press enter or click outside of the text box to confirm the new tuning reference. Adjusting the tuning reference to 432Hz will tune the note 'A4' 8Hz lower in pitch than the default of 440Hz.

**NOTE:** The range of the tuning reference that can be set is 420Hz to 460Hz. Entering a value outside of this range will snap to the nearest permitted value.

By default, opening the Tuner will mute the output of the plugin. However, if you want to hear the output of the plugin whilst tuning your instrument, simply click the 'M' mute button (located next to the tuning reference and under the note display) to toggle the mute off. To mute the output, press the mute button again.

## **MIDI (Standalone Only)**

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### **Overview**

The St. James standalone version features MIDI support. You can use your favourite MIDI devices to change presets, or to custom map plugin parameters for easy control.

### **Setup**

Connect a MIDI device to your computer, click the Settings icon at the top right of the Header Bar, click Audio Settings, then select your device from the Active MIDI Inputs section. You can select multiple devices at once.

### **Mapping and MIDI Learn**

There are two ways to enter MIDI Learn:

- Click the MIDI port icon found at the top right of the Header Bar, select Enter MIDI Learn
- Right-click the parameter or preset you want to control, select Enter MIDI Learn (this will preselect the parameter or preset)

Here are some starting examples of how to map parameters or presets:

#### **Mapping Overdrive Pedal footswitch**

- Click the MIDI port icon, Enter MIDI Learn
- Click on the Overdrive Pedal footswitch to select it for MIDI Learn
- Press the controller on your MIDI device
- Click the MIDI port icon, Exit MIDI Learn

#### **Mapping Amp Gain**

- Right-click the Amp Gain knob, Enter MIDI Learn
- Move the controller on your MIDI device
- Exit MIDI Learn from the right-click menu

### **Mapping Tape Delay Pedal Mix and Verb Pedal Mix to one controller**

- Right-click the Tape Delay Pedal Mix knob, Enter MIDI Learn
- Move the controller on your MIDI device
- Click the Verb Pedal Mix knob
- Move the same controller on your MIDI device
- Exit MIDI Learn from the right-click menu

### **Mapping the current Preset**

- Click the MIDI port icon, Enter MIDI Learn
- Click the Preset box to select it for MIDI Learn
- Press the controller on your MIDI device
- Click the MIDI port icon, Exit MIDI Learn

### **Mapping other Presets**

- Open the Preset Menu
- Right-click the Preset you want to map
- Enable MIDI Learn
- Press the controller on your MIDI device

### **MIDI Mappings Window**

To open the MIDI Mappings window, click on the MIDI icon menu. All mapped events can be found here. You can further add, remove, or customise mappings.

### **Resetting Mappings**

Resetting all existing MIDI Mappings can be done easily by clicking the MIDI port icon and selecting Reset MIDI Mapping.

## BPM/Tempo (Standalone Only)

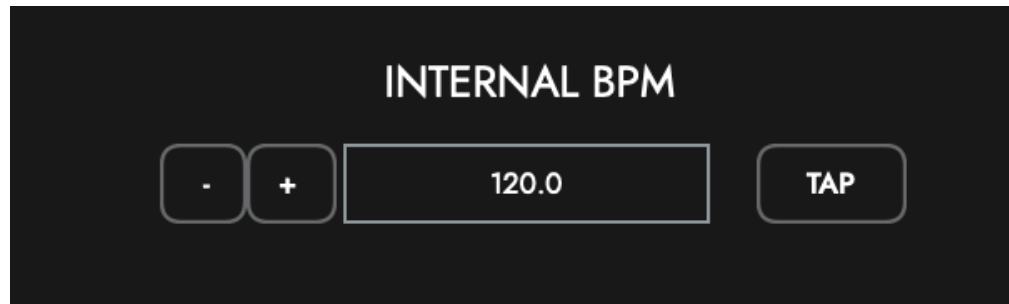
### Overview

On the JJN 50 standalone version, you can set a custom BPM (Beats Per Minute) value. The BPM value is saved when you save a Preset. BPM values will affect any pedals that have a Sync switch enabled.

There are two ways to enter MIDI Learn:

- In the Audio Settings menu
- On a pedal by enabling the Sync switch and right-clicking the Speed/Time knob

### Setting BPM - Audio Settings



To access the BPM settings, click the Settings icon at the top right of the Header Bar, then click Audio Settings. To change the BPM you can either type in a value (40–300), click the +/-, or click Tap to tap the new tempo.

### Setting BPM - Pedals



On any pedals with a Sync switch, first make sure Sync is enabled. You can quickly access the BPM by right-clicking the Speed/Time knob.

Changing the BPM this way will change the Internal BPM and affect all pedals with an enabled Sync switch.

## Support

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### FAQs

For detailed answers on FAQs and other support, please visit: <https://blackstarplugins.com/support/>

### macOS Requirements

For all of the below requirements, iLok License Manager and an internet connection are required to activate your plugin license.

#### Minimum

- Intel Core i3 Processor (i3-4130 / i5-2500 or higher)
- 8 GB of RAM
- Mac OSX 10.15 (Catalina)
- 700 MB of drive storage

#### Recommended

- Intel Core i5 Processor (i5-6600 or higher), also runs native on M Series Apple Silicon.
- 8 GB of RAM or more
- Mac OSX 11 (Big Sur)
- 700 MB of drive storage

### Windows Requirements

For all of the below requirements, iLok License Manager and an internet connection are required to activate your plugin license.

#### Minimum

- AMD Quad -Core Processor (R3 2200G or higher) / Intel Core i3 Processor (i3-4130 / i5-2500 or higher)
- 8 GB of RAM
- Windows 8
- 350 MB of drive storage

#### Recommended

- AMD Ryzen 5 Processor (R5 1600 or higher) / Intel Core i5 Processor (i5-6600 or higher)
- 8 GB of RAM or more
- Windows 10
- 350 MB of drive storage



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For the latest information go to: [www.blackstaramps.com](http://www.blackstaramps.com)

Whilst the information contained herein is correct at the time of publication, due to our policy of constant improvement and development, Blackstar Amplification Ltd reserves the right to alter specifications without prior notice.