



# Idoru P-1 User Guide

Complete setup, operation and troubleshooting manual

[support.idoru.live](https://support.idoru.live)

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# Quick Start Guide

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## 1. Set up your songs in the software

### Set up your session

- Install the P-1 software from <https://idoru.live/downloads>
- Open the P-1 software.
- Create a new session by clicking 'Create new session' button.
- Create a new setlist by clicking 'Create setlist' button.
- Create a new song by clicking 'Create song' button.

### Prepare your songs

- Double-click the song to open the Song Edit view.
- You can use mono or stereo 16-bit, 44.1 kHz WAV files.
- Add WAV files to the song: Click on the square labelled 'F1'. Choose a WAV file you want to load into this sound source slot to send to output 1. You can also simply drag and drop WAV files onto the sound source slots.
- Click on output 2 in the outputs row at the top of the screen to open its submixer, then click on the square labelled 'F2'. Choose a WAV file you want to send to output 2.
- Repeat this for any other WAV files you want to load.
- You can also send more than one sound source to an output; simply click on any sound source to activate it. The sound source square will light up red, indicating it is now also routed to the currently selected output. For example, if you want to route the WAV files in slots F1 and F2 to output 1, click on output 1 in the output row to open its submixer, then click on F2 to activate it. Now both F1 and F2 should be lit up, meaning those WAV files will be heard on output 1.
- If you want to use 2 outputs as a stereo pair, click the stereo link button between the output numbers. The outputs now share a submixer and sound sources. If a stereo file is routed to this pair, its left channel will play through the lower-numbered output and its right channel through the higher-numbered output.
- When ready click the 'Done' button to return to the Setlist view.
- Now right-click on your song and select 'Duplicate'.
- Double-click the new song, and change the WAV files by double-clicking on the sound source squares.
- Repeat this process to make your whole set of songs.

### Transfer your session into the P-1

- Insert the SD card in the P-1, connect it via USB to the computer, then connect the power. Alternatively, you can use an SD card reader on your computer.
- Click 'Send session to P-1' at the bottom of the screen.

- Choose the location of your SD card from the window that appears, and click 'Send session'. (Note: you only need to select the root of the card, not go into any folders.)
- The required files are exported to the SD card.
- Right-click and select 'Eject' in your computer's OS, then unplug the USB cable from the P-1.

## 2. Connect your P-1 to the sound system

- Ensure P-1 is powered off to avoid unwanted pops.
- Connect the P-1's outputs to the mixing desk. **We recommend using a DI unit.**

## 3. Play your songs!

- Connect the power to your P-1 with the SD card inserted.
- The first time a new session is loaded on the P-1 the device will show a list of the setlists on the SD card.
- Turn the left encoder to select, and press it to load the selected setlist.
- The songs in the setlist can now be cycled through with the < and > buttons or footswitches.
- Quickly tap play to start a song. Tap again to pause. Hold for 1.5 seconds to stop.
- You can also select another song using the < and > controls whilst the current one is still playing, then switch to it immediately by a quick press on play.

# Introduction to the Idoru P-1

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## What is the Idoru P-1?

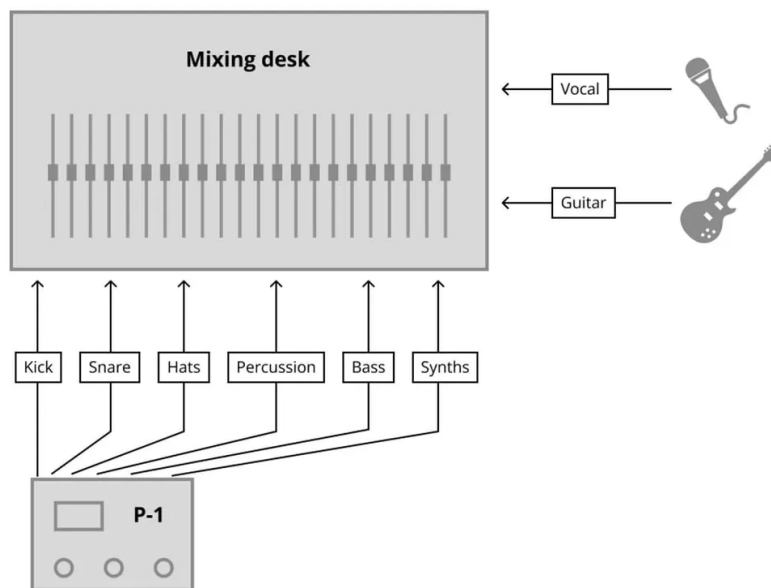
The Idoru P-1 is a simple, compact, and tough multi-channel audio and MIDI backing track player. Designed specifically for live musicians.

The P-1 can play up to 6 WAV files at once. It has 6 mono outputs and a stereo headphone out, each with its own mixer. This allows you to create a custom mix for each output.

## The Idoru P-1 in use

### Multitrack backing

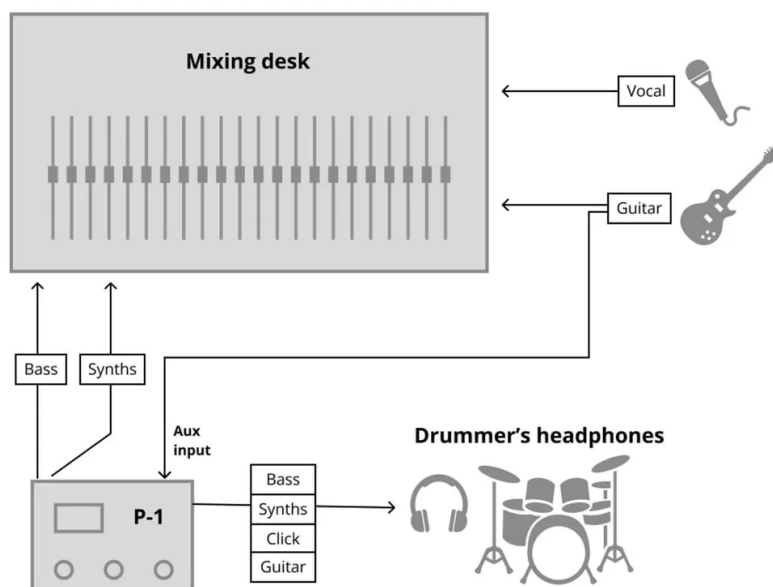
A musician may decide to separate their backing into a WAV file per instrument, for example kick, snare, hats, percussion, bass, synths. They can then route each WAV to its own output and send them to the mix engineer alongside their live guitar and vocal, all on separate channels. This allows the mix engineer to individually adjust elements of the mix as they would with a fully live band.



P-1 sending 6 channels to the mixing desk.

### With a live drummer

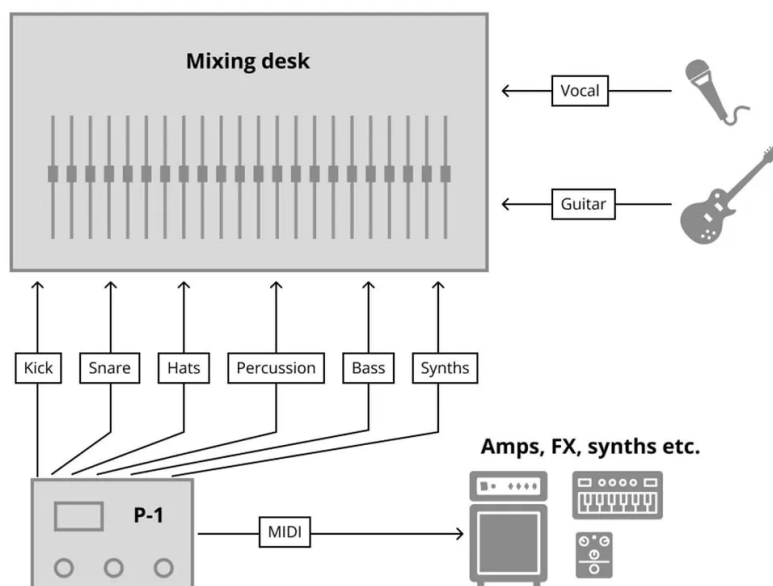
If a live drummer plays in the group, they may want to create a click track WAV and have that fed to the headphones output alongside the other backing. This makes it easier for the drummer to keep time to the backing tracks. They can also run a signal to the aux input of the P-1, from the guitar amp for example, and send that to the drummer's headphones too.



P-1 sending to mixing desk, and a submix to drummer's headphones.

## With MIDI playback

The P-1 can also play a MIDI file alongside the audio, and output the MIDI via the MIDI port to control synths, amps, or other MIDI-compatible gear.



P-1 sending 6 channels to mixing desk and MIDI to other gear.

## What is a song?

A song is typically one song in your set. On the P-1 it is a set of 16-bit, 44.1 kHz WAV files that will be played together, optionally with a MIDI file, plus the levels and routings of those WAV files to the outputs. Every song in the same setlist must have a different name. **With firmware v3.27 and desktop software v2.2.16 or later, you can have up to 100 songs in a setlist.**

## What is a setlist?

A setlist is a collection of songs in a particular order. It also stores the levels and stereo pairing of outputs. You might use a setlist, for instance, as a set of songs prepared for one particular gig. **With firmware v3.27 and desktop software v2.2.16 or later, you can store up to 10 setlists per SD card.**

## What is a session?

A session is a collection of setlists and songs that will be stored on an SD card. When you click 'Save' you are saving a .idoru file to your computer, which is a session stored in a format the desktop software can read. When you click 'Send session to P-1' the software is exporting the session into a format the pedal can use.

**Did we miss something?** Not to worry! Just [email us at contact@idoru.live](mailto:contact@idoru.live). 🙌

# Overview - ports and interface



| No. | Control or connection      | Function                  |
|-----|----------------------------|---------------------------|
| 1   | <b>Previous</b> footswitch | Select the previous song. |

| No. | Control or connection  | Function                                                                                                               |
|-----|------------------------|------------------------------------------------------------------------------------------------------------------------|
| 2   | <b>Next</b> footswitch | Select the next song.                                                                                                  |
| 3   | <b>Play</b> footswitch | Play, pause or stop according to the selected Control Mode.                                                            |
| 4   | <b>Previous</b> button | Select the previous song.                                                                                              |
| 5   | <b>Next</b> button     | Select the next song.                                                                                                  |
| 6   | <b>Play</b> button     | Play, pause or stop according to the selected Control Mode.                                                            |
| 7   | <b>Exit</b> button     | Return to the current or first song and close menus.                                                                   |
| 8   | <b>Menu</b> encoder    | Press to open a menu or select; turn to navigate.                                                                      |
| 9   | <b>Mix</b> encoder     | Press to open the mixer or select; turn to navigate, adjust a value, or change headphone level from the player screen. |
| 10  | <b>Display</b>         | Shows songs, playback, levels, MIDI activity and menus.                                                                |
| 11  | <b>MIDI input</b>      | Receive remote control, clock, transport and P1 Sync data.                                                             |
| 12  | <b>MIDI output</b>     | Send MIDI-file, clock, remote-control and P1 Sync data.                                                                |
| 13  | <b>SD card slot</b>    | Stores all song and setlist data.                                                                                      |

# Connecting the P-1 at Venues

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## Connecting the P-1 to Venue Sound Systems: Use of DI units

When connecting the Ildoru P-1 to a venue's sound system, particularly large venues, we strongly recommend using a Direct Injection (DI) unit. This ensures a high-quality, noise-free signal and protects the audio output from any potential issues caused by long cable runs or different electrical grounding between your setup and the venue's PA system.

### Benefits of Using a DI Box:

1. **Improved Signal Integrity:** The P-1's impedance-balanced output already helps minimise noise, but using a DI box further enhances signal quality. Over long cable runs, a DI box ensures even greater noise reduction and signal clarity, delivering a cleaner, interference-free signal to the venue's mixing desk.
2. **Ground Loop Isolation:** DI boxes help prevent hum or buzz caused by ground loops, which can occur in complex or poorly grounded sound systems.
3. **Line Level Compatibility:** The P-1 outputs at line level, and using a DI box ensures that this signal is properly matched with the venue's sound system, preventing distortion and maintaining optimal volume levels.
4. **Protection from Phantom Power:** While the P-1 can function with phantom power being sent to it, prolonged exposure could potentially lead to wear on its components. Using a DI unit isolates the P-1 from phantom power, offering an extra layer of protection and helping to preserve the longevity of your equipment.

By using a DI unit with your P-1, you'll enhance audio quality, ensure signal compatibility, and protect your equipment when connecting to different venues.

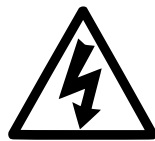
# Safety instructions

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## General safety instructions

- Repair must be carried out only by a specialist.
- Opening the pedal while an SD card is inside the card reader will result in damage.
- Never use devices with a defective power cord.
- Read the operating instructions completely and carefully.
- If the device is damaged, have it checked by a specialist before further use.
- Make sure cables are not strained, kinked or are in contact with any kind of sharp edges.
- Always unplug the device when not in use.
- Only operate the device as described in this manual.
- Only use accessories specified by the manufacturer.

## Warning and Safety Instructions



### **WARNING! ELECTRIC SHOCK!**

- Check the power supply and the device for any kind of damage before using it. If there is any visible damage, do not use the device.
- Do not short-circuit the output of the power supply.



### **CAUTION!**

- Check the power supply and the device for any kind of damage before using it. If there is any visible damage, do not use the device.
- Do not short-circuit the output of the power supply.
- Do not use the power supply or the device in any way other than as described in the following instructions.
- Do not handle liquids during operation.
- Do not change or modify the power supply or the device.
- Only use the supplied power supply.

- Clean the power supply and the device only with a slightly damp cloth.
- Avoid contact of moisture with the sockets.
- The device consists of a robust metal housing. However, refrain from excessive mechanical loads on the device by climbing, stepping on, or throwing it around.
- Avoid exposing the device's outputs and inputs to 48V phantom power.



### **CAUTION!**

- When operating the footswitches, be careful not to damage the LCD display. If damaged, LCD liquid may leak out. This is hazardous to health! Refrain from any further use of the player! Avoid contact with the liquid. Dispose of the player at a designated disposal point for electronic waste.



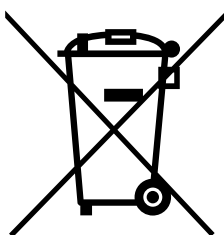
### **WARNING!**

- Do not charge your smartphone or other devices via the player's USB ports.

## **Maintenance and Care**

Use a soft, dry cloth to clean the P-1. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

## **Disposal**



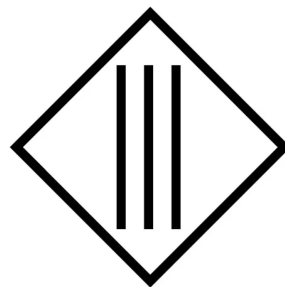
DO NOT DISPOSE OF ELECTRONIC DEVICES IN HOUSEHOLD WASTE.

According to the European directive on waste electrical and electronic equipment and its implementation in national law, electrical equipment that is no longer usable must be collected separately and recycled in an environmentally friendly manner.

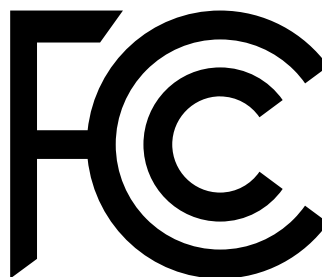


## European Union regulation compliance statement

This product has been tested to comply with the Low Voltage Directive 2014/35/EU - Standard EN 62368-1, and the Electromagnetic Compatibility Directive 2014/30/EU - IEC 62368-1:2018. The product meets the requirements of RoHS 2 Directive 2011/65/EU.



## Protection class III - low-voltage protection



## FCC regulation compliance statement

Supplier's Declaration of Conformity

This Declaration of Conformity is hereby issued according to Chapter 1, Subpart A, Part 2 of Title 47 of the Code of Federal Regulations by:

Adam Ferns, sole trader trading as Idoru Live

62/5 Montgomery Street

Edinburgh

EH7 5JA

United Kingdom

[contact@idoru.live](mailto:contact@idoru.live)

Idoru P-1 complies with the applicable requirements of FCC Rule Part 15

RESPONSIBLE PARTY located in the United States: Testing Partners LLC 18200 SR 306 Chagrin Falls, OH 44023 info 'at' testingpartners.com

## Legal disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by Idoru Live. Idoru Live assumes no responsibility for any errors that may appear in this document. Idoru Live may also make improvements and/or changes in the products and programs described in this document at any time without notice. In no event shall Idoru Live be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use or performance of this information.

## WEEE registration number

We are registered as a manufacturer of electrical and/or electronic devices with the registration number DE 97363330 at the stiftung elektro-altgeräte register, Nordostpark 72, 90411 Nuremberg.

## Limited Warranty:

Adam Ferns, sole trader trading as Idoru Live, warrants the Idoru P-1 ("Product") to be free from defects in materials and workmanship under normal use for a period of 1 year from the date of purchase, as evidenced by the purchase receipt. During the warranty period, Idoru Live will, at its discretion, repair or replace defective parts or products.

## Exclusions:

This warranty does not cover:

1. Damage resulting from accidents, misuse, abuse, or neglect.
2. Damage resulting from modifications or unauthorized repairs.
3. Normal wear and tear.
4. Damage resulting from exposure to extreme temperatures, moisture, or other environmental conditions.
5. Products not purchased from authorized Idoru Live dealers or distributors.

## Warranty Claims:

To make a warranty claim:

1. Contact Idoru Live customer service at [contact@idoru.live](mailto:contact@idoru.live).

2. Provide proof of purchase.
3. Follow the instructions provided by the customer service representative.

**Limitation of Liability:**

Idoru Live's liability under this warranty is limited to the repair or replacement of the defective product. Idoru Live shall not be liable for any incidental or consequential damages resulting from the use or inability to use the product.

**Transferability or assignment of warranty:**

This Limited Warranty is extended to the original retail purchaser (including purchases directly from Idoru Live) ONLY. This Limited Warranty cannot be transferred to anyone who may subsequently purchase this product. All warranty coverage shall be determined by Idoru Live, at its sole discretion.

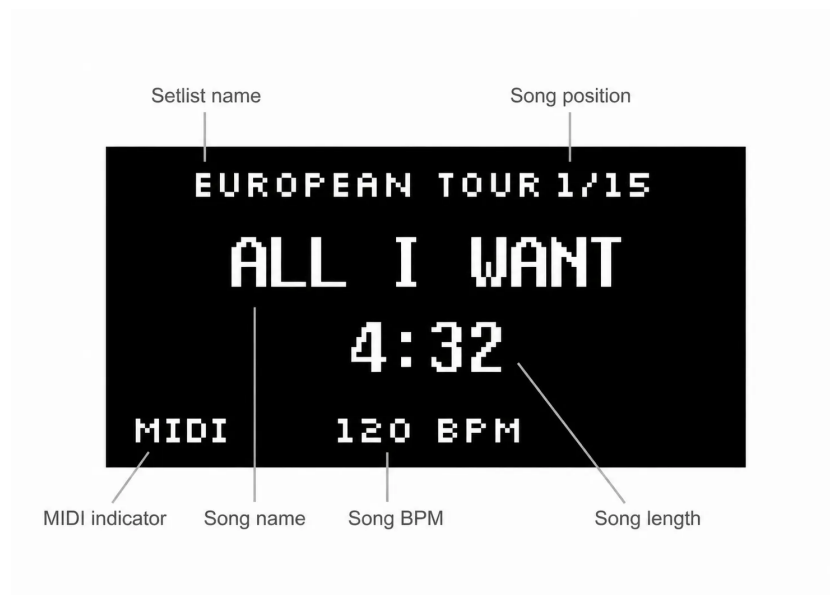
# Transport controls

## ① Control modes and PLAY timing

This page describes **Control Mode A**, the default. In this mode, PLAY is triggered when you **release** the PLAY footswitch or button-not when you first press it. If you press PLAY then change your mind, you can continue holding the control for 2 seconds to cancel the PLAY command before the song starts. If you find starting on release does not feel responsive enough, there are 2 other control modes which trigger PLAY on push.

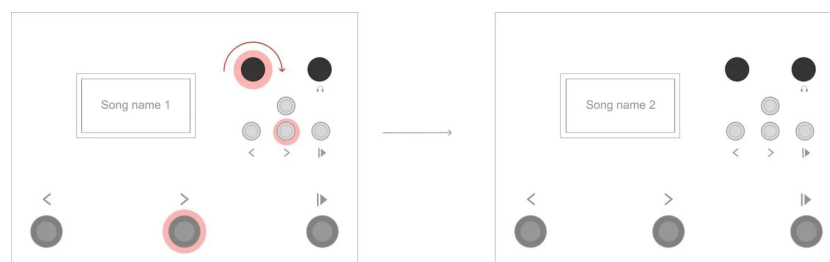
See [Control mode](#) for the complete comparison.

## When the P-1 is inactive:



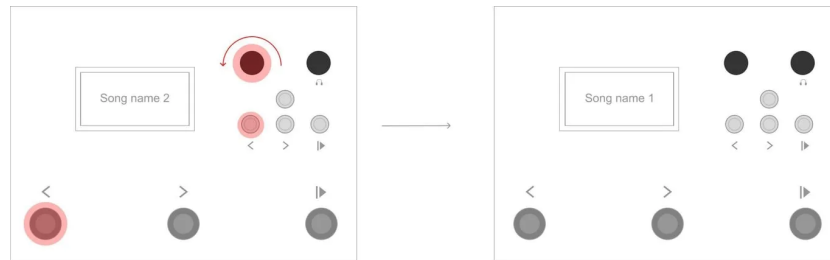
## Select next song

From the inactive state, quickly pressing the FORWARD footswitch or button, or turning the ENCODER clockwise, selects the next SONG.



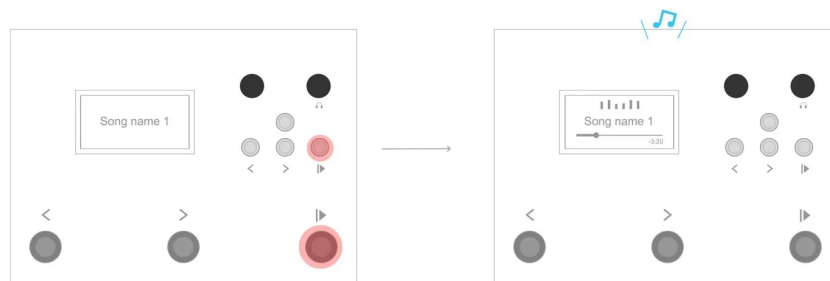
## Select previous song

From the inactive state, quickly pressing the BACK footswitch or button, or turning the ENCODER anti-clockwise, selects the previous SONG.



## Play song

In default Control Mode A, quickly press and release the PLAY footswitch or button to play the selected song from the start. Playback begins when the control is released.

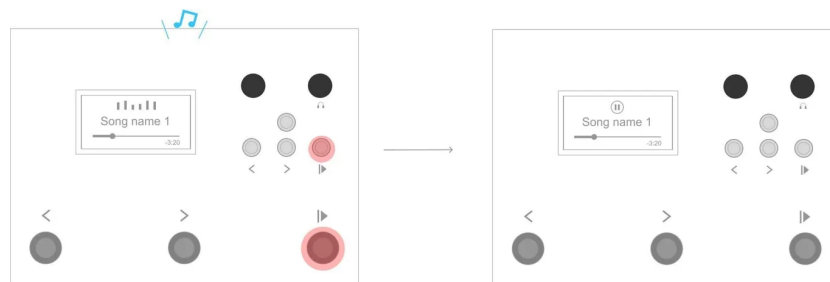


## When the P-1 is playing a song:



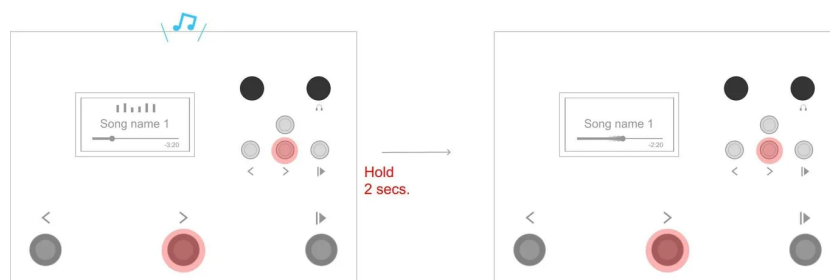
## Pause / Unpause song

In Control Mode A, quickly press and release the PLAY footswitch or button to pause the playing song. Press and release PLAY again to continue from the paused position.



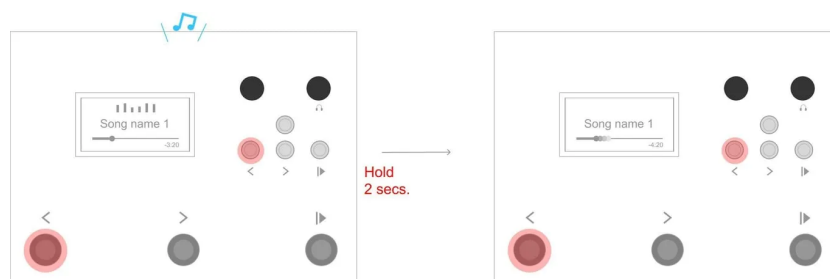
## Scrub forwards

From the playing or paused state, hold the FORWARD footswitch or button for 2 seconds to scrub forward until it is released. Scrubbing accelerates after the control has been held for more than 3 seconds. Songs containing both audio and MIDI can be scrubbed with firmware v3.27 or later.



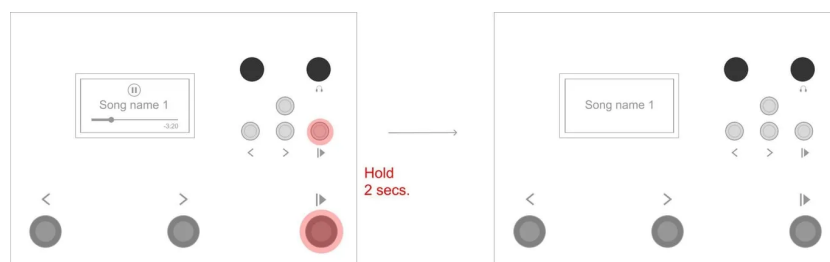
## Scrub backwards

From the playing or paused state, hold the BACK footswitch or button for 2 seconds to scrub backwards until it is released. Scrubbing accelerates after the control has been held for more than 3 seconds. Songs containing both audio and MIDI can be scrubbed with firmware v3.27 or later.



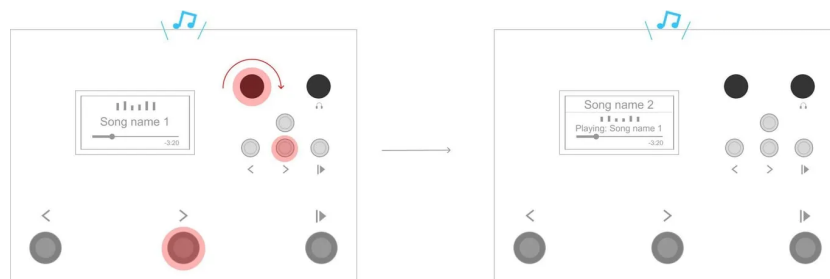
## Stop song

In Control Mode A, hold the PLAY footswitch or button for 2 seconds to stop the currently playing or paused song. Starting playback again will play the song from the beginning.



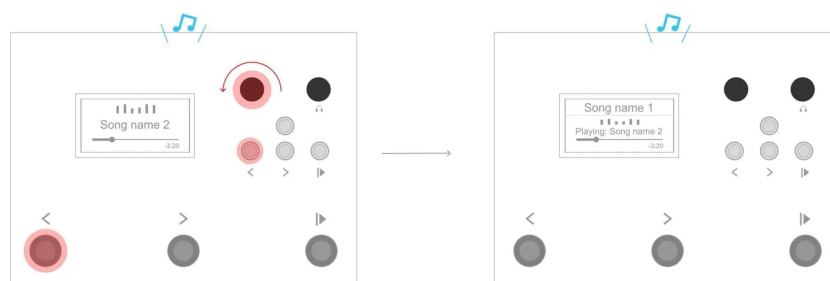
## Select next song

From the playing or paused state, quickly pressing the FORWARD footswitch or button, or turning the ENCODER clockwise, selects the next SONG while the current song continues to play.



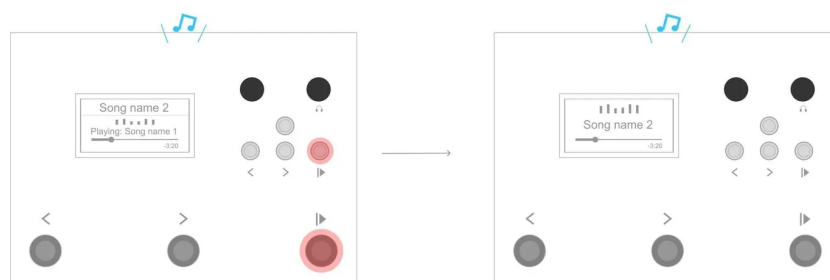
## Select previous song

From the playing state, quickly pressing the BACK footswitch or button, or turning the ENCODER anti-clockwise, selects the previous SONG.



## Switch to new song

In Control Mode A, when a different song is selected during playback, quickly press and release PLAY to stop the current song and start the selected song.



# Control mode

---

It is possible to change the way the P-1's main controls work to better suit your needs. By default the pedal uses control mode A, where the song is triggered on the release of the play switch.

In control mode B, the play and pause commands are sent as the play switch is pushed down. The stop command is triggered by pressing [Previous] and then [Play]. When a song is looping, pressing [Previous] queues the song to stop when the current loop finishes.

In control mode C, there is no pause control. The play command is sent as the play switch is pushed. The stop command is sent when it is pushed again.

## Controls for each mode

|                      | A - Default | B - Previous to stop                                                 | C - No pause control |
|----------------------|-------------|----------------------------------------------------------------------|----------------------|
| <b>Play</b>          | Release     | Push                                                                 | Push                 |
| <b>Pause</b>         | Release     | Push                                                                 | -                    |
| <b>Unpause</b>       | Release     | Push                                                                 | -                    |
| <b>Stop</b>          | Hold        | Previous - Display says 'Press Play to stop' - press Play to confirm | Push                 |
| <b>Next</b>          | Release     | Release                                                              | Release              |
| <b>Previous</b>      | Release     | Release                                                              | Release              |
| <b>Scrub forward</b> | Hold        | Hold                                                                 | Hold                 |
| <b>Scrub back</b>    | Hold        | Hold                                                                 | Hold                 |

## To change control modes

Open the 'Settings' menu by pressing the left encoder, selecting 'Settings', then 'Control system'. Choose your desired mode then press the encoder again to select it.

# Menus and settings

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## Navigating the menus

Press the left encoder while the P-1 is stopped to open the main menu. The current setlist and song appear at the top of the screen. Turn the encoder to move the selector and press it to choose an option. Press EXIT to go back or return to the player screen.



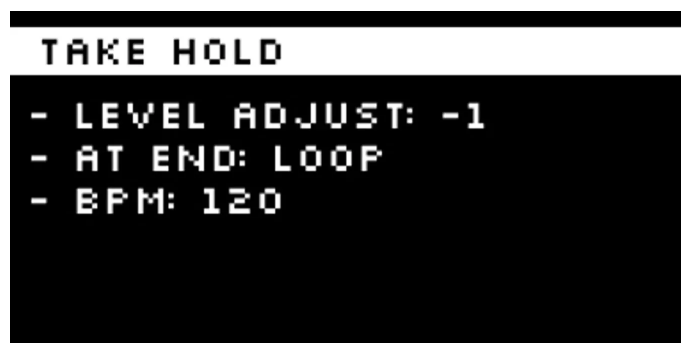
## Browse setlists

Selecting **Browse Setlists** opens the setlists available on the SD card. Turn the left encoder to choose a setlist and press it to load it.

The P-1 supports up to 10 setlists on one SD card. When the list spans multiple pages, dots at the right of the display show the available pages and current position.

## Edit song

You can change the following settings for the currently selected song:



## Level adjust

Level Adjust changes all output levels for this song relative to the setlist levels. For example, if outputs are set to 95 and Song Adjust is -2, the outputs will play at 93 for this song.

## At end

Choose what happens when the song finishes:

- **Queue next** queues the next song. Press PLAY when you are ready to start it.
- **Play next** starts the next song automatically.
- **Loop** starts the current song again.
- **Stop** stops at the end of the current song without changing the selection.

## Cueing the next loop

While a song is looping, select another song to make it start when the current loop finishes. In Control Mode B, pressing BACK instead queues the current song to stop when its next loop finishes.

## BPM

This BPM setting controls the visual metronome. When **Send MIDI Clock** is enabled, it also sets the outgoing MIDI Clock tempo for songs without a MIDI file. For songs that include a MIDI file, the setting is used before playback starts; during playback, the P-1 follows the tempo data in the MIDI file.

The BPM setting does not time-stretch audio or change MIDI-file playback speed. Firmware v3.27 can display BPM values up to 999.

## Settings

Global settings are retained when the P-1 is switched off. Firmware v3.27 groups them into the following sections.

### Control system

Changes how the previous, next, pause, play and stop controls behave. See [Control mode](#).

### Metronome flash

Turns the visual metronome on or off. When enabled, the PLAY button flashes at the song BPM.

### Time counter

Choose **Elapsed** to count up from the start of the song or **Remaining** to count down to the end.

### MIDI settings

- **MIDI In Channel** chooses the channel used for MIDI remote control. The default is channel 15.
- **Send MIDI Clock** sends clock and Start, Stop and Continue transport messages. Audio-only songs use the song BPM.
- **Receive MIDI Clock** allows incoming Start, Stop and Continue messages to control the P-1.
- **MIDI Thru** passes incoming MIDI to the MIDI output. When MIDI Thru is enabled, the P-1 does not play its own MIDI files.

- **P1 Sync** selects OFF, LEADER or FOLLOWER mode. See **P1 Sync**.

## Display settings

**Screen contrast** adjusts the contrast of the display.

**Screen brightness** adjusts the display backlight.

## AUX settings

- **AUX INPUT** selects **Balanced** or **Unbalanced** input. Use Unbalanced for an unbalanced or stereo 3.5mm source. The AUX input is mono, so connecting a stereo source does not provide stereo input.
- **AUX GAIN** adds up to +18 dB of digital gain for quieter sources.

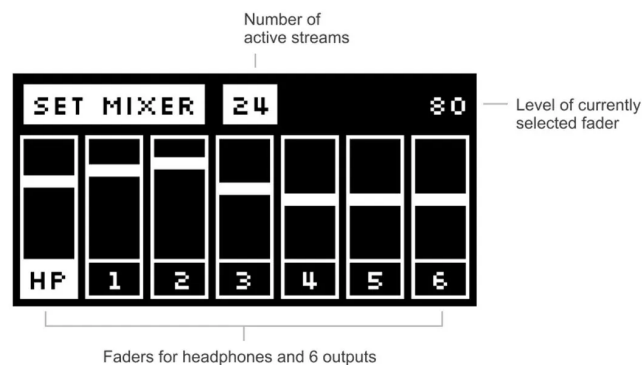
## Player-screen feedback

Firmware v3.27 adds VU indicators for the outputs and AUX signal, a MIDI activity indicator, a small MIDI marker beside songs containing MIDI, and clearer warnings for invalid WAV files or session data.

# Routing and mixing

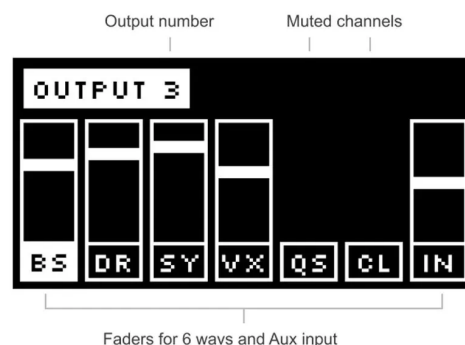
## The set mixer

The P-1 has a 'Set Mixer' to adjust the volumes of the 6 mono outputs and stereo headphones out for their live set. You can also stereo link pairs of outputs here. These settings are applied for the whole setlist, and are saved with the setlist. On firmware v3.27 or later, turn the right encoder on the player screen to adjust headphone level without opening the mixer. The current level appears briefly in the top-right of the display.



## Output submixes

The P-1 also has a mixer for the independent submix going to each output and for the headphones. Using this mixer, you can set the levels of the WAV files and aux input going to this particular output. You can also **mute and unmute them**. These settings are saved as part of a song.



## Stereo linking outputs

If you route a stereo source to one of the mono outputs, then the signal is summed to mono. To keep WAV files in stereo, outputs can be linked, which converts them to a stereo pair. Their faders will move together in the set mixer, and they will also share a source mixer. When a pair of outputs are linked, any mono WAV

files routed to the first output are now sent to both outputs. Any stereo sources that were connected to the first output are now split to left channel and right channel across the stereo pair. Outputs are linked using the set mixer and apply for the whole setlist. Possible pairings are: outputs 1(L)+2(R), outputs 3(L)+4(R) and outputs 5(L)+6(R).

## Sound sources and connections

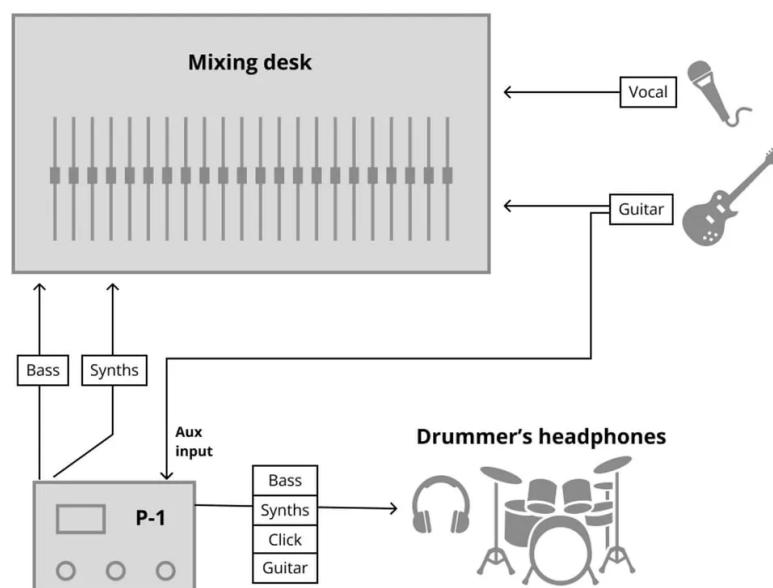
Many musicians will simply want to send one WAV file to each output, which is easy to do. However, with the P-1, it is also possible to create more complex routings and custom mixes for each output, for things like sending a click to the drummer with a different headphone mix.

There are 7 available sound sources that can be routed to an output (6 WAV files + 1 aux input). The aux input is a mono source. WAV files can be either mono or stereo sources.

There can be a total of 32 connections between the sound sources and the outputs activated in a song.

- If you route a mono source to a mono output, it will use 1 connection.
- If you route a mono source to a pair of linked outputs, or the headphones output, it will use up 2 connections.
- If you route a stereo source to an output, or a pair of linked outputs, or the headphones output, it will use up 2 connections.
- Note that any source (mono or stereo) routed to the headphones takes 2 connections, one for left and one for right.
- If a channel is muted, then it does not count as using any connections until it is unmuted.

To use our earlier example, if you were to route a mono WAV of bass to output 1, a mono WAV of synths to output 2, then create a submix to the headphones containing bass, synths, click and the guitar from the aux input, you would be using 10 connections in total (8 to headphones, 2 to the other outputs). This would leave you with 22 more connections available if needed.



P-1 sending to mixing desk, and a submix to drummer's headphones. 10 connections are active.

## Clipping warning indicator

Routing a lot of loud sound sources to the same output may cause it to clip, causing distortion.

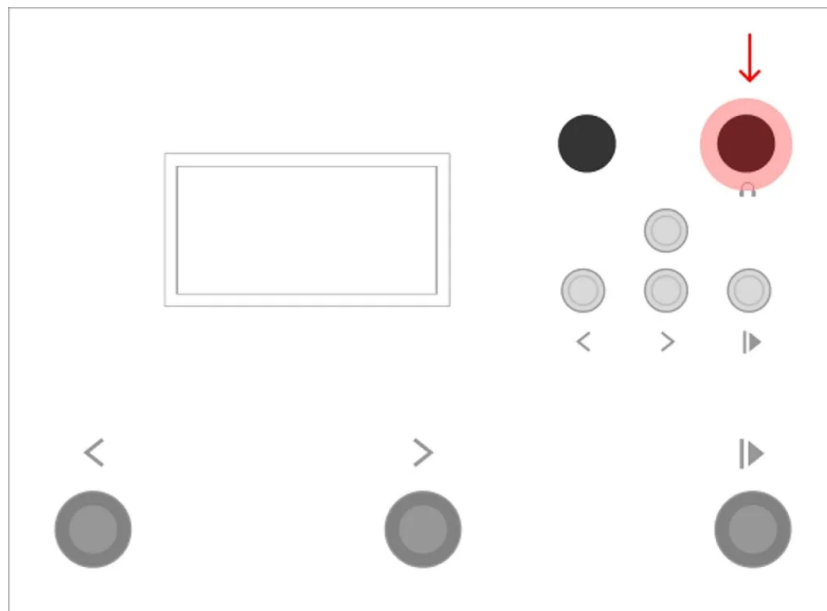
If you see numbers 1-6 or LR flashing on the bottom left of the screen during playback, this means that output is clipping. The number represents the output, L and R represent the left and right channel of the headphones.

Identify the output that is clipping then turn down the faders within that output's submix until it is no longer clipping.

## Opening and closing the mixer

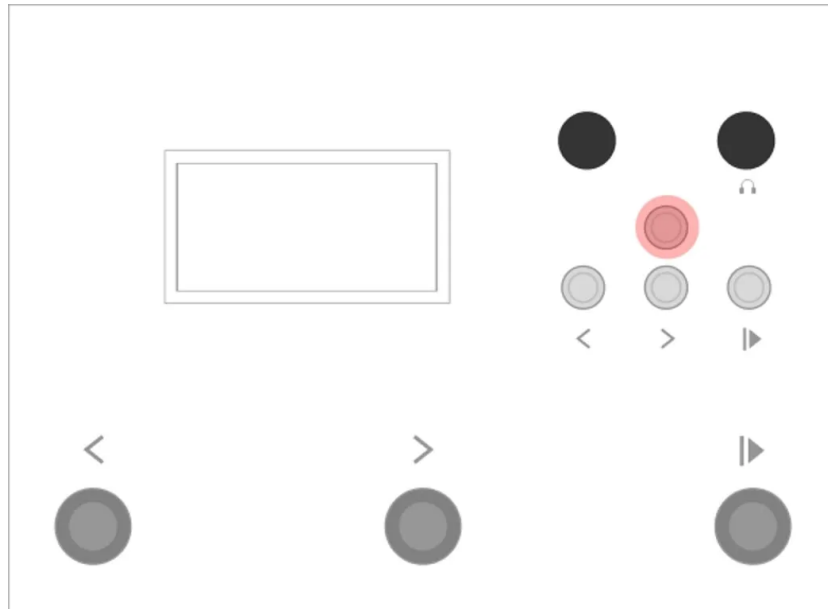
### Open mixer

Pushing right encoder opens the mixer and enters the device into MIX MODE. From this state, you can still pause and unpauses the current track using the PLAY/PAUSE button.



### Close mixer

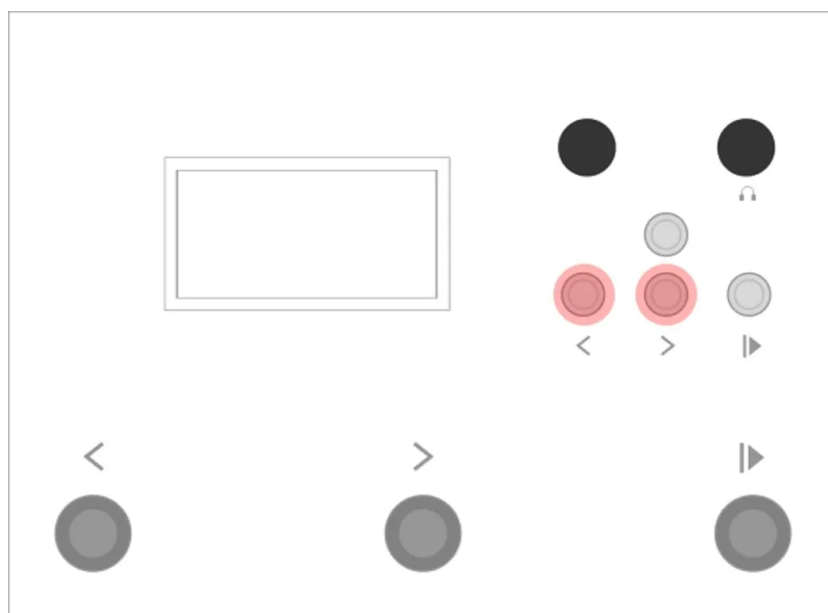
Pressing the EXIT button exits MIX MODE and asks if you want to save the changes. Select 'Yes' to save them, or 'No' to discard them.



## Selecting a mixer

### Cycle through mixers

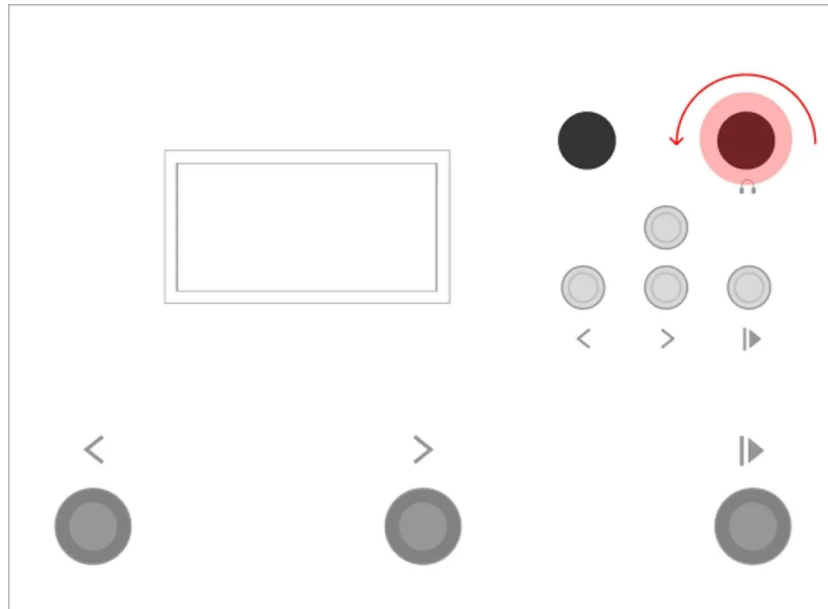
Pressing NEXT and PREVIOUS buttons cycles through the available mixers. Starting with the set mixer, and then each output's own submix mixer.



## Changing a fader value

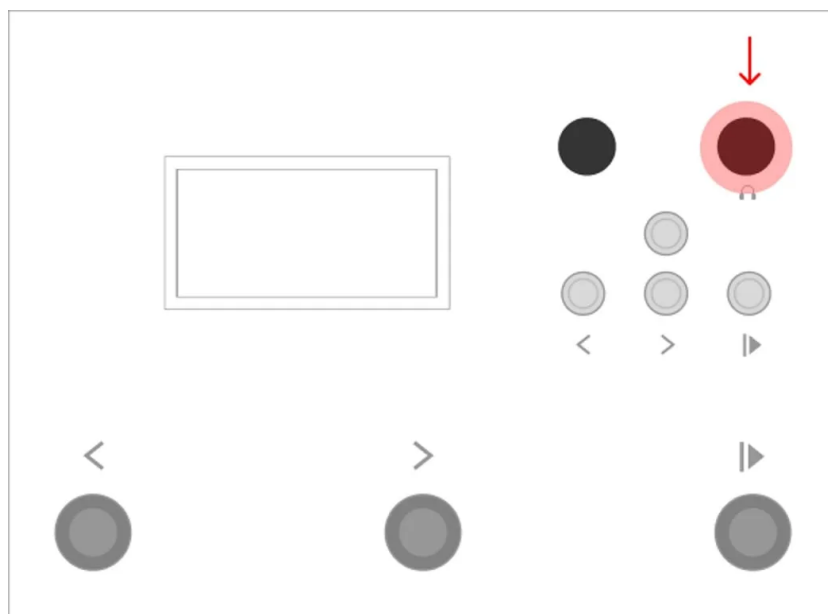
### Cycle through faders

Turning right encoder when in MIX MODE cycles through faders in the displayed mixer.



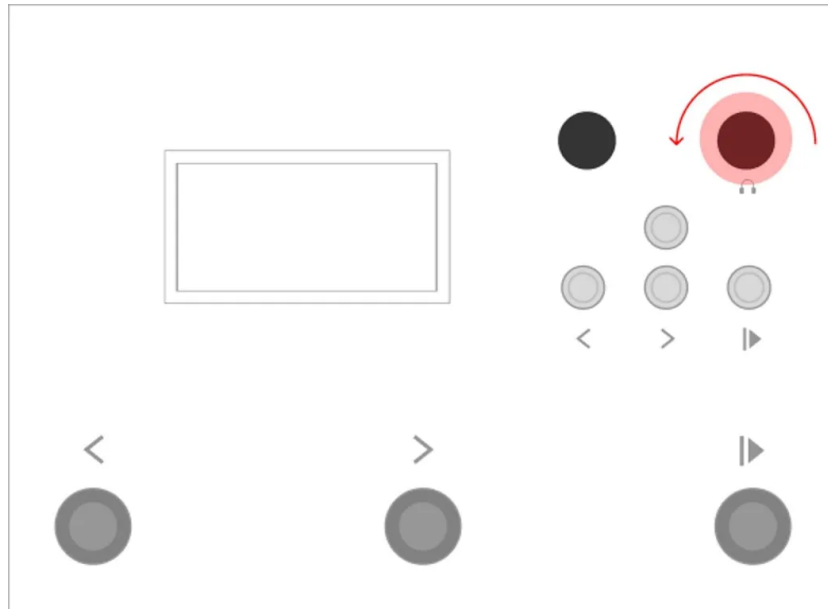
## Grab fader

Pushing right encoder selects the fader for editing.



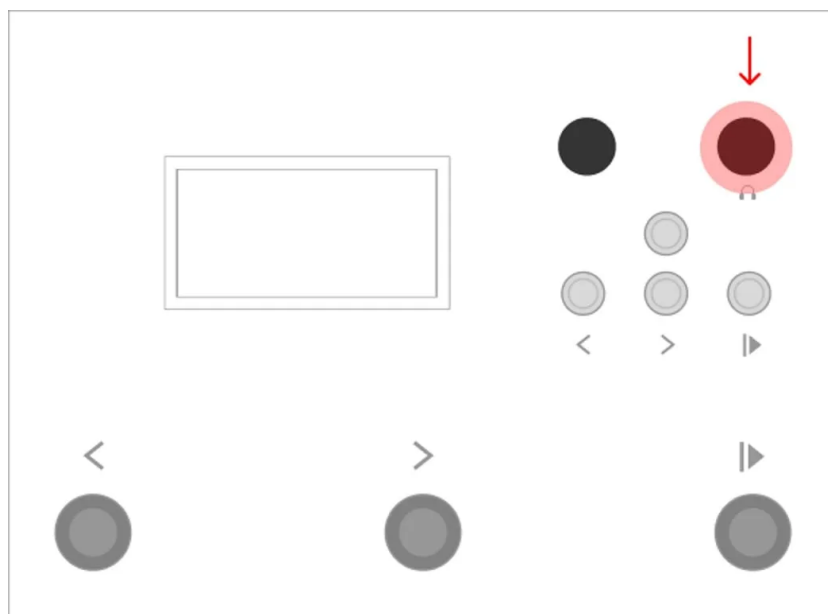
## Adjust fader

Turning right encoder when a fader is grabbed will adjust the fader value.



## Release fader

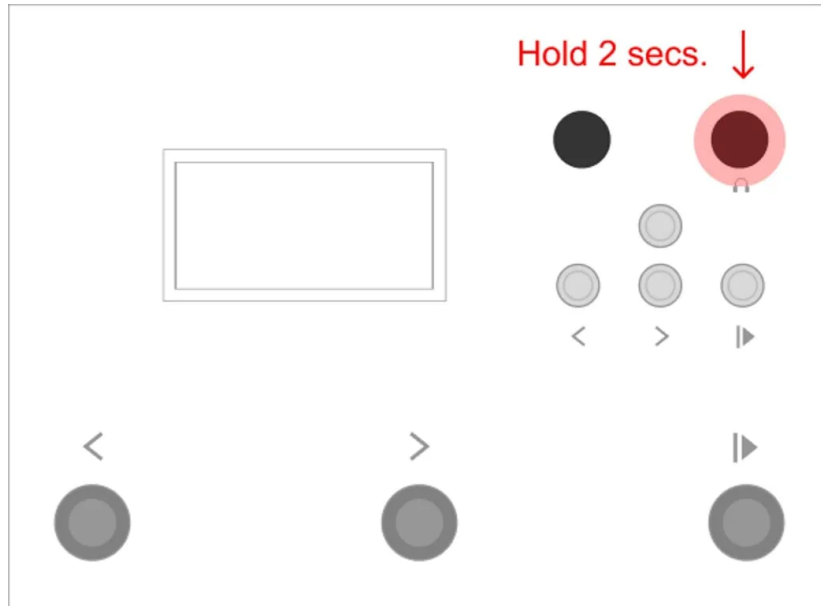
Pushing right encoder again releases the fader and goes back to fader selection mode.



## Muting and stereo linking

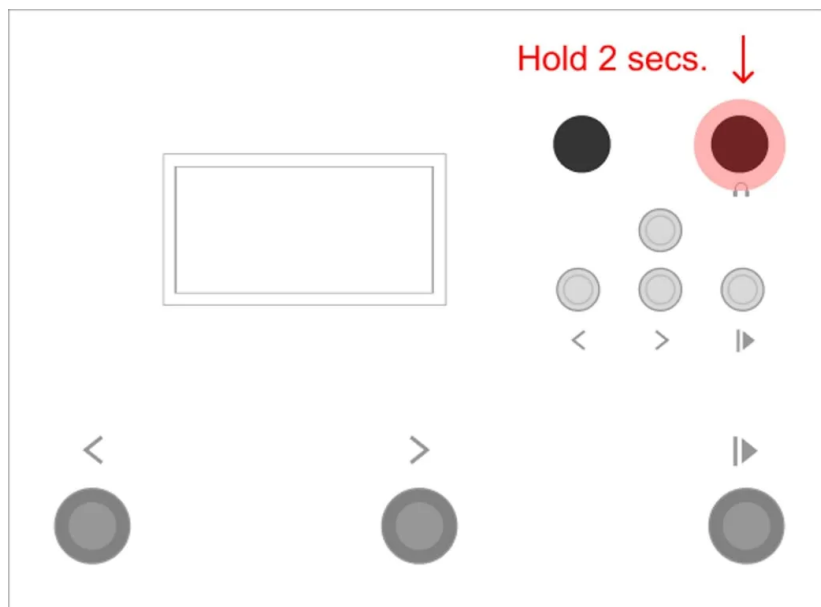
### Muting an output source

On a **source mixer** screen for one of the outputs, hold down the right encoder for 2 seconds to mute that channel. The fader will disappear indicating it is muted. Hold again for 2 seconds to unmute.



## Stereo link outputs

On the **set mixer**, hold down the right encoder for 2 seconds to stereo link that channel with the left / right one. Hold again for 2 seconds to unlink. Possible pairings are outputs 1(L)+2(R), outputs 3(L)+4(R) and outputs 5(L)+6(R).



# MIDI

---

MIDI stands for Musical Instrument Digital Interface. It allows devices such as computers, synthesizers, effects and drum machines to exchange performance and control messages.

The P-1 can play multichannel Type 0 MIDI files alongside audio. MIDI carries instructions rather than sound, so connected equipment can be configured to respond only to the channels intended for it.

The Idoru software recognises MIDI files with the `.mid` extension. If your file uses `.midi`, rename the extension to `.mid` before importing it.

## MIDI exported from Ableton Live

Ableton Live exports MIDI with some limitations, including single-channel files and a fixed 120 BPM export in some workflows. Use a tool such as [Reaper](#) to combine individual clips, retain multiple channels and set the intended tempo before exporting a Type 0 MIDI file.

## MIDI BPM

Changing the song BPM on the P-1 does not change MIDI-file playback speed. A MIDI file contains its own tempo data, which the P-1 follows during playback. The song BPM is used before playback for the visual metronome.

## MIDI clock

MIDI clock keeps connected devices in time. With **Send MIDI Clock** enabled, the P-1 sends a Start message when playback begins and then sends clock messages at regular intervals. Pause or stop sends Stop, and resuming a paused song sends Continue.

- For an audio-only song, firmware v3.27 generates MIDI clock from the song BPM.
- For a song containing a MIDI file, the P-1 follows the tempo embedded in that file during playback.
- Enable or disable outgoing clock under **Settings** → **MIDI Settings** → **Send MIDI Clock**.
- Enable incoming Start, Continue and Stop control under **Settings** → **MIDI Settings** → **Receive MIDI Clock**.

## Controlling the P-1 via MIDI

Connect your controller or other MIDI source to the P-1 MIDI input. The remote-control channel is configurable under **Settings** → **MIDI Settings** → **MIDI In Channel** and defaults to channel 15. The controls below are normal incoming MIDI controls; internal P1 Sync messages are separate.

Setlist and song positions are numbered from 1. Firmware v3.27 supports setlist positions 1-10 and song positions 1-100; invalid combinations, including 0, are ignored. MIDI octave labels vary between controllers, so use the note number as the definitive reference.

## Song and setlist selection

| MIDI message                        | Value            | Action                                                                                           |
|-------------------------------------|------------------|--------------------------------------------------------------------------------------------------|
| CC 0 - Bank Select                  | Setlist position | Arms a setlist for the next CC 19, CC 20 or Program Change message. Nothing changes immediately. |
| CC 18 - Setlist Select              | Setlist position | Immediately selects the setlist and defaults to song 1 without playing.                          |
| CC 19 - Select Song Without Playing | Song position    | Selects a song in the current or armed setlist without starting playback.                        |
| CC 20 - Select and Play Song        | Song position    | Selects a song in the current or armed setlist and starts playback.                              |
| Program Change                      | Song position    | Selects a song in the current or armed setlist and starts playback.                              |
| CC 21 - Previous Song               | 127              | Moves the browse selection to the previous song.                                                 |
| CC 22 - Next Song                   | 127              | Moves the browse selection to the next song.                                                     |

To select setlist 2, song 10 with one controller button:

- Send CC 0 value 2, followed by CC 19 value 10 to select without playing.
- Send CC 0 value 2, followed by CC 20 value 10 to select and play.
- Send CC 0 value 2, followed by Program Change 10 to select and play using Program Change.

For cross-setlist selection without playing, CC 0 followed by CC 19 is recommended. CC 18 followed by CC 19 can be configured, but CC 18 immediately selects song 1 before CC 19 arrives. This can be less reliable while a setlist is loading or playback is transitioning.

## Transport CC controls

CC 23-26 are triggered using value 127.

| MIDI message           | Action                                                                  |
|------------------------|-------------------------------------------------------------------------|
| CC 23 - Play / Pause   | Starts playback when idle, pauses when playing, or resumes when paused. |
| CC 24 - Stop           | Stops playback and returns the player to idle.                          |
| CC 25 - Forward Scrub  | Toggles forward scrubbing on or off; send CC 25 again to end.           |
| CC 26 - Backward Scrub | Toggles backward scrubbing on or off; send CC 26 again to end.          |

| MIDI message                    | Action                                                                                                            |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| CC 28 - Virtual PLAY footswitch | Values 1-127 press the switch and value 0 releases it. Short and long presses follow the selected Control System. |

## MIDI Note controls

Most actions occur on Note On. Note Off is required to end note-controlled scrubbing and to release the virtual PLAY footswitch.

| Note number | Common label | Note On action                                                                 | Note Off action                      |
|-------------|--------------|--------------------------------------------------------------------------------|--------------------------------------|
| 24          | C1           | Previous song                                                                  | Ignored                              |
| 26          | D1           | Next song                                                                      | Ignored                              |
| 28          | E1           | Play, pause or resume                                                          | Ignored                              |
| 29          | F1           | Stop                                                                           | Ignored                              |
| 31          | G1           | Previous setlist, wrapping from first to last                                  | Ignored                              |
| 33          | A1           | Next setlist, wrapping from last to first                                      | Ignored                              |
| 35          | B1           | Exit: returns the selection to the currently playing song, or song 1 when idle | Ignored                              |
| 36          | C2           | Begins forward scrubbing                                                       | Ends forward scrubbing               |
| 37          | C#2          | Begins backward scrubbing                                                      | Ends backward scrubbing              |
| 38          | D2           | Presses the virtual PLAY footswitch                                            | Releases the virtual PLAY footswitch |

For momentary scrubbing, configure the controller to send Note On 36 or 37 when pressed and a genuine Note Off message ( 0x80 ) for the same note when released. Some controllers send Note On with velocity 0 instead; the current P-1 parser does not interpret that as the scrub-release command. While scrubbing, most other incoming MIDI commands are ignored until scrubbing ends.

## Output-level controls

| MIDI message | Controlled level |
|--------------|------------------|
| CC 9         | Headphone output |
| CC 85        | Output 1         |
| CC 86        | Output 2         |
| CC 87        | Output 3         |
| CC 88        | Output 4         |

| MIDI message | Controlled level |
|--------------|------------------|
| CC 89        | Output 5         |
| CC 90        | Output 6         |

Values 0-100 set the corresponding level. Values 101-127 are limited to 100. Linked stereo outputs move together. MIDI level changes affect the current session only and are not saved to the song or setlist.

## Incoming real-time transport

These messages only have an effect when **Receive MIDI Clock** is enabled.

| MIDI message | Hex value | Action                                                                                |
|--------------|-----------|---------------------------------------------------------------------------------------|
| Start        | FA        | Starts playback when idle. When paused, restarts the browsed song from the beginning. |
| Continue     | FB        | Resumes when paused or starts playback when idle.                                     |
| Stop         | FC        | Pauses playback when currently playing.                                               |

Incoming MIDI Clock timing messages ( **F8** ) and Song Position Pointer ( **F2** ) are currently ignored.

### 📘 Ableton MIDI numbering

MIDI applications use different octave-numbering conventions, so the displayed note name may differ. Use the MIDI note number to configure your controller. For example, Note 24 appears as C0 in Ableton but as C1 in the table above. Ableton also displays Program Change numbers one higher than the transmitted value, so selecting Program 2 sends Program Change value 1.

## Devices to control the P-1

You can use any MIDI controller, app, instrument or sequencer that can send the messages above.

## P1 Sync

P1 Sync links two P-1 units so one can mirror the other. Its internal traffic uses MIDI channel 16. When P1 Sync is set to **Follower**, channel 16 is reserved and cannot also be used for normal MIDI remote control. See [P1 Sync](#) for setup and operating details.

## SysEx

Sending MIDI System Exclusive messages from the P-1 is not currently supported.

 **No MIDI-file output?**

Check that MIDI Thru is turned off. MIDI Thru passes the MIDI input directly to the output but does not merge in MIDI-file playback from the P-1.

# P1 Sync

P1 Sync links two P-1 units over MIDI. A **Leader** sends song selection, setlist selection, play, pause, stop and scrub position to a **Follower**, which mirrors the Leader.

## Redundancy or extra outputs

Use P1 Sync when you want a second P-1 to mirror the first for playback redundancy, or when you need more independently routed outputs than one unit provides.

Both units should run firmware v3.27 or later.

## Connect the units

1. Connect the MIDI output of the Leader to the MIDI input of the Follower.
2. On the sending P-1, open **Settings** → **MIDI Settings** → **P1 Sync** and select **Leader**.
3. On the receiving P-1, select **Follower** in the same menu.
4. Load matching sessions on both units before the performance.

## Modes

| Mode     | Behaviour                                                           |
|----------|---------------------------------------------------------------------|
| Off      | P1 Sync is disabled.                                                |
| Leader   | Sends selection, transport and scrub information.                   |
| Follower | Receives and follows P1 Sync information without retransmitting it. |

## MIDI channels and clock

P1 Sync uses MIDI channel 16 internally. When P1 Sync is set to **Follower**, channel 16 is reserved and cannot also be used for normal MIDI remote control. The user-selectable remote-control channel defaults to channel 15.

Start, Stop and Continue transport messages are sent externally only when MIDI Clock output is enabled. Configure clock behavior under **Settings** → **MIDI Settings**.

## Scrubbing

When the Leader scrubs an audio and MIDI song, the Follower moves to the matching position.

## Preparing matching sessions

For predictable switching, use the same setlist and song order on both units. P1 Sync sends selections and transport state; it does not transfer audio, MIDI files or session data between SD cards.

# Intro to the Idoru P-1 software

---

The Idoru software is used to create songs and arrange them into setlists to be transferred to the P-1's SD card.

## Download the Idoru software

Download the latest version from the [Idoru downloads page](#).

## What is a song?

A song is typically one song in your set. On the P-1 it is a set of 16-bit, 44.1 kHz WAV files that will be played together, optionally with a MIDI file, plus the levels and routings of those WAV files to the outputs. Every song in the same setlist must have a different name. **With firmware v3.27 and desktop software v2.2.16 or later, you can have up to 100 songs in a setlist.**

## What is a setlist?

A setlist is a collection of songs in a particular order. It also stores the levels and stereo pairing of outputs. You might use a setlist, for instance, as a set of songs prepared for one particular gig. **With firmware v3.27 and desktop software v2.2.16 or later, you can store up to 10 setlists per SD card.**

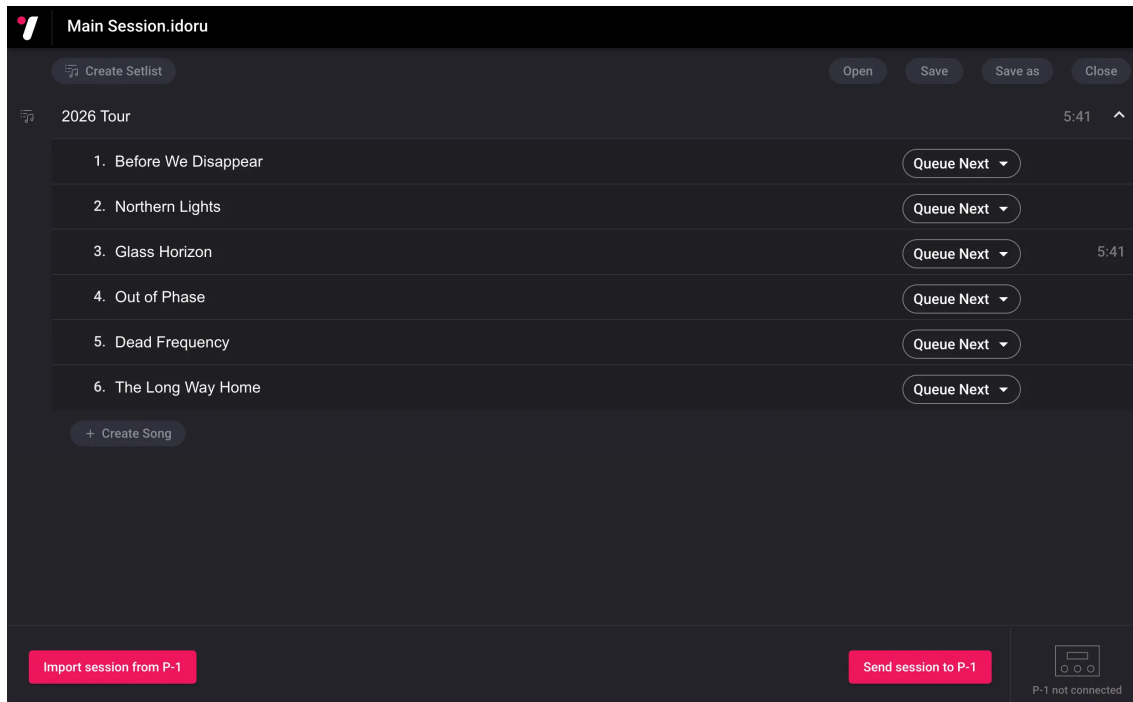
## What is a session?

A session is a collection of setlists and songs that will be stored on an SD card. When you click 'Save' you are saving a .idoru file to your computer, which is a session stored in a format the desktop software can read. The .idoru file stores your song settings and links to your WAV and MIDI files; it does not contain copies of those files. When you click 'Send session to P-1' the software is exporting the session and its linked files into a format the pedal can use. See [Saving and backing up sessions](#) for the recommended workflows.

## Views

There are 2 main views in the software, the Setlist view and the Song Edit view

# The Setlist View



The setlist view is where you can create new songs and setlists. You can also save and load sessions, and export the session to your P-1 SD card when it is ready.

## Setlists

Setlists appear as a row with the setlist name and the total duration of all the songs it contains. Clicking the chevron arrow on the right-hand side will expand or collapse the setlist's songs.



### Create a setlist

To create a setlist click on the 'Create setlist' button.

### Delete a setlist

Right-click on a setlist and select 'Delete setlist'. Or hover over the setlist and click the delete button that appears.



## Duplicate a setlist

Right-click on a setlist and select 'Duplicate setlist'.

## Rename a setlist

Right-click on a setlist and select 'Rename setlist'. Or click on the name of the setlist. Setlist names can be a maximum of 32 characters.

# Songs

Songs appear as a row with the song name and its duration.



## Create a song

To create a song click on the 'Create song' button in the setlist you want to create it in. Or right-click on a setlist or song and select 'Create song'.

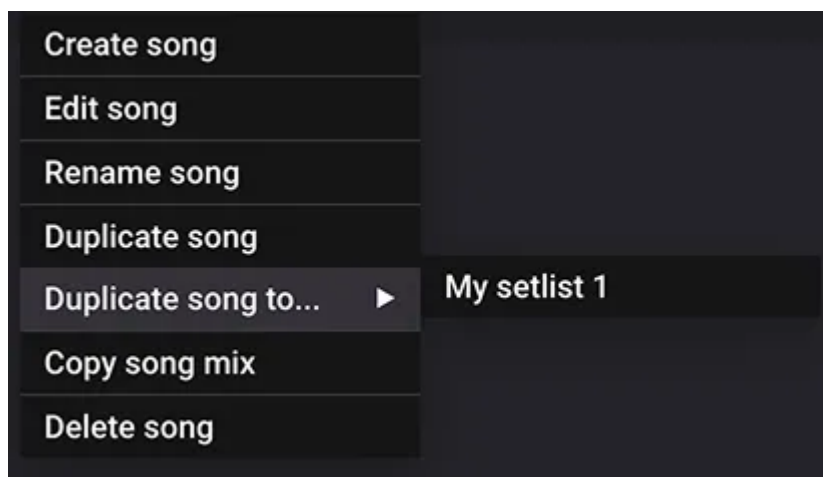
## Delete a song

Right-click on a song and select 'Delete song'. Or hover over the song and click the delete button that appears.



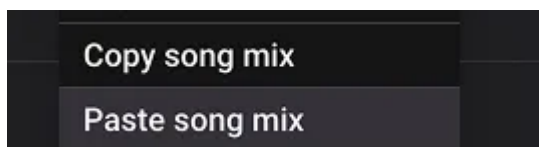
## Duplicate a song

Right-click on a song and select 'Duplicate song' to duplicate it in the same setlist. To copy it to another setlist, select 'Duplicate song to...' and choose the destination. The duplicate will be added to the end of the selected setlist.



## Copy a song mix

To copy a song's fader levels and channel routing, right-click on the source song and select 'Copy song mix'. Right-click on the target song and select 'Paste song mix'.



## Rename a song

Right-click on a song and select 'Rename song'. Or click on the name of the song. Song names can be a maximum of 32 characters. Only the first 16 characters will be visible on the P-1 display.

### ① Supported characters

The P-1 currently supports setlist, song and file names with the characters a-z, A-Z, 0-9 and the symbols !@#\$%^\_+=-&() .

## Edit a song

Right-click on a song and select 'Edit song'. Or hover over the song and click the Edit button that appears.

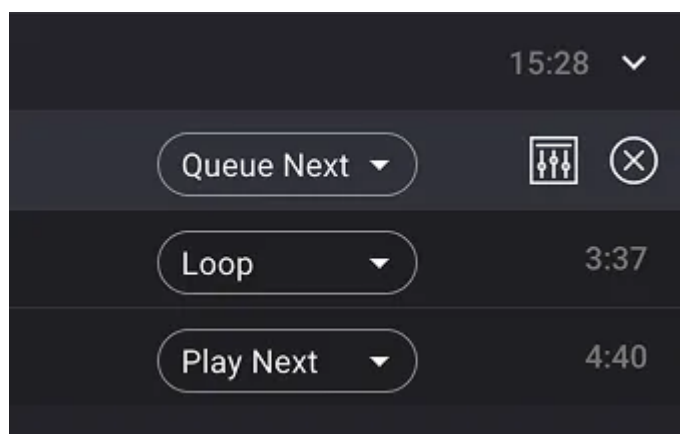


## Move a song

To re-arrange the order of songs in a setlist or move a song to another setlist, click and drag the song to where you want it, then release.

## Change the end-of-song behaviour

Use the menu on the right of a song to change its 'At end of song' setting without opening the Song Edit View.



## Send session to P-1

You can put an SD card in the P-1, and connect it to the computer via the P-1's USB B port. The software will recognise the P-1 and show 'P-1 connected' in the bottom right of the screen. The P-1's display will show 'USB mass storage mode' indicating it is now functioning as an SD card reader. Alternatively, you can put the SD card directly into the computer's card reader, which may lead to faster copying speeds.

When your session is ready, click this button to export the session to your P-1's SD card. A window will pop up where you can select the SD card's location (either the P-1 or your card reader), or simply save the exported files somewhere else on your drive if desired. The software will export a file structure that is readable by the pedal, do not disconnect the SD card whilst it is copying files. You can [read more about the P-1 files here](#).

### ⚠ Keep the SD card for P-1 files only

The SD card should only contain the files exported via the 'Send session to P-1' button (i.e. the LISTS and UPDATE folders). Do not save .idoru files from the software, or other files, to the SD card or it may cause unpredictable results.

If the P-1 is still displaying old setlists after copying, power off and on the pedal to get the setlists to refresh.

### ① Ejecting the P-1 on macOS

Ejecting the P-1 in macOS sometimes reconnects it a second or two later. Unplug the USB cable straight after ejecting to make the P-1 exit 'USB MASS STORAGE MODE'.

## Import an exported session

Use **Import from P-1** to open a session previously exported to an SD card or a folder on your computer. This is useful if you no longer have the original .idoru file or have made changes using the P-1.

1. Make the exported files available by connecting the powered P-1 with its SD card inserted, inserting the card directly into your computer, or locating an exported backup folder on your computer.
2. Click **Import from P-1**.
3. Select the root of the SD card or the exported `lists` folder on your computer, then click **Import session**.
4. Once imported, you can edit the session, save it as an .idoru file or send it to the P-1 again.

### ① Imported session file locations

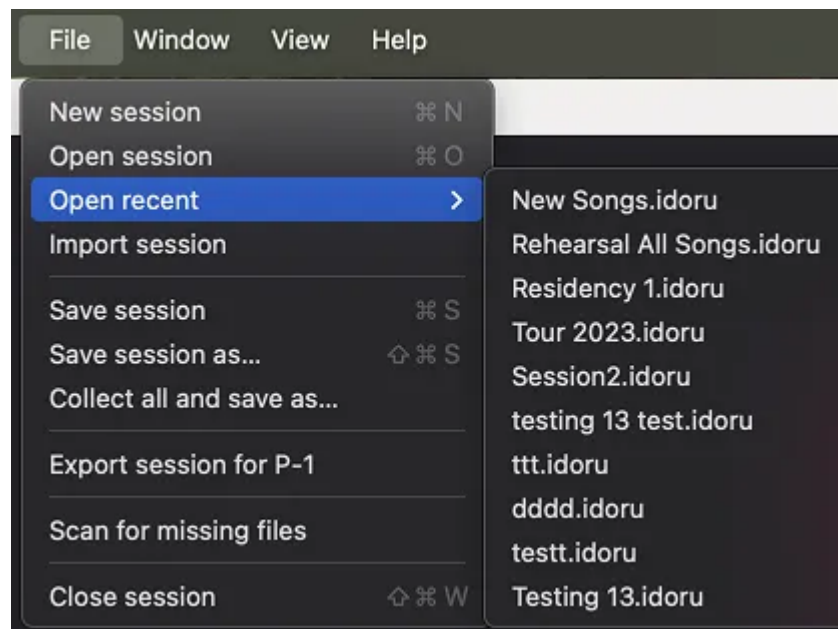
An imported session continues to use the WAV and MIDI files from the location you selected; those files are not copied somewhere else. If you import from an SD card, its file paths will point to the files on that card. See [Creating a self-contained backup](#) if you want the session and its linked files stored together on your computer.

You can only import sessions that have been exported with v.2.0 or later of the Idoru software.

## Load

Click the 'Load' button to load a .idoru file you have previously saved on your computer.

To reopen a recently used session, choose **File > Open recent** and select its `.idoru` file.



## Save

Click the 'Save' button to save the current session as a .idoru file on your computer. Note: Save the file to your computer and not to the SD card. Storing .idoru files on the SD card is not advised and may cause the P-1 to not be able to correctly read the files on the SD.

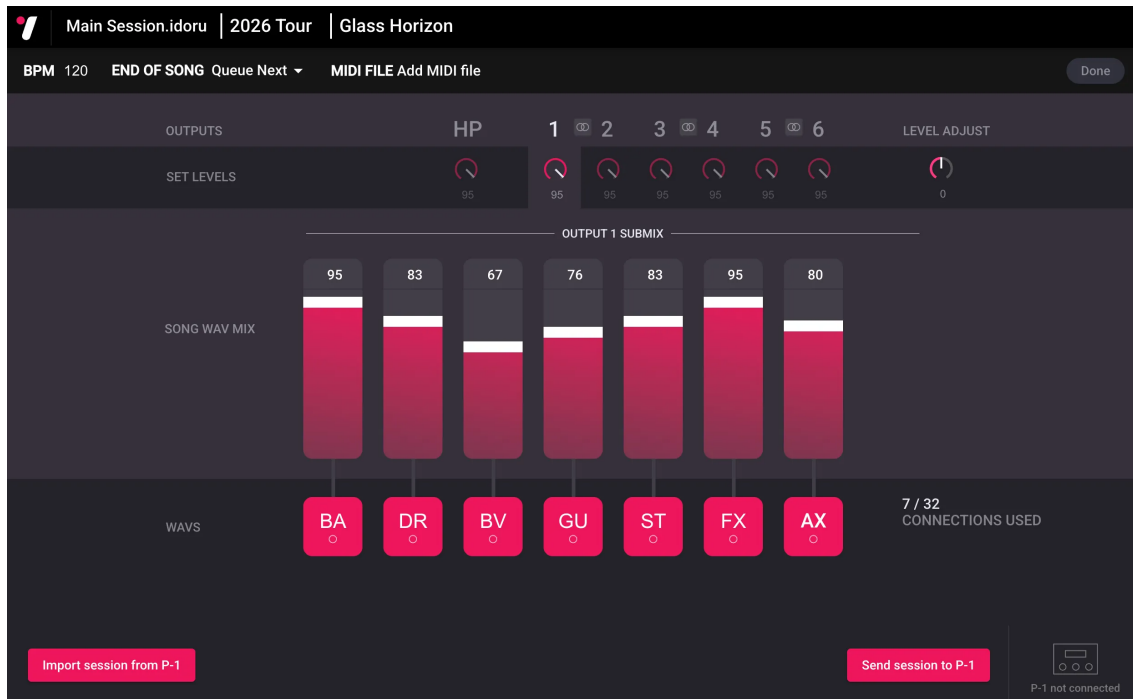
## Save as

Click the 'Save as' button to save the current session as a new .idoru file on your computer.

## Close

Click the 'Close' button to close the current session.

# The Song Edit View



The Song Edit view is where you add the WAV files and MIDI file for a song, route them to outputs and set the submix fader levels for each output. From this screen you can also adjust the overall levels of the outputs for the setlist.

## Monitoring and previewing songs - Work in progress...

### ⚠ Work in progress

This feature is in development. It is not yet possible to play songs whilst adjusting the mix in the desktop software. We are working on this feature and it will be provided as a software update. In the meantime it is best to set up your songs and estimate your levels in the software, and then copy the session to the P-1 and fine-tune the mix directly on the pedal.

## Outputs section

This is where you can set the levels of the 6 outputs and the headphones output for the setlist. At 100 the output is at 0dB (no attenuation). At 0 the output is at -100dB attenuation. The knobs default to 95 (-5dB) to allow room to turn up outputs where needed. Any adjustments to these knobs affect the whole setlist.

### Adjust the level of an output

Click and drag on an output knob, or click on the number and enter the desired value.

## Select an output and view its submix mixer

Click on an output number or knob to select that output and view its source mixer for the current song. Here you can choose what is routed to the output and adjust its submix.

## Output submix section

This is the currently selected output's submix of WAV files and aux input for the song. There is a fader for each WAV file, plus one for the aux input, allowing you to adjust the levels running to the output. The fader values represent a percentage of the sound source's signal. At 100 the sound source is played at full signal. At 0 there is no signal. The faders default to 95% of the source signal, to allow room to turn up channels where needed.

## Adjust the level of a sound source to selected output

Click and drag the fader, or click on the number at the top of the fader and type the desired value.

## Mute / unmute a sound source to the selected output

Click once on an active (lit up red) sound source square below a fader to mute it. Click once on a muted (greyed out) sound source to unmute it. Note that this only mutes/unmutes it for the currently selected output's submix.

## Sound source section

The section at the bottom of the screen contains 6 WAV sound sources where you can add the WAV files you want to use in the song, plus the aux input. The 2 characters indicate the name of the sound source; these will also be displayed on the P-1 mixer. The icon indicates whether the loaded file is mono or stereo. Hovering over a WAV sound source reveals the loaded WAV file's path.

### ① WAV file requirements

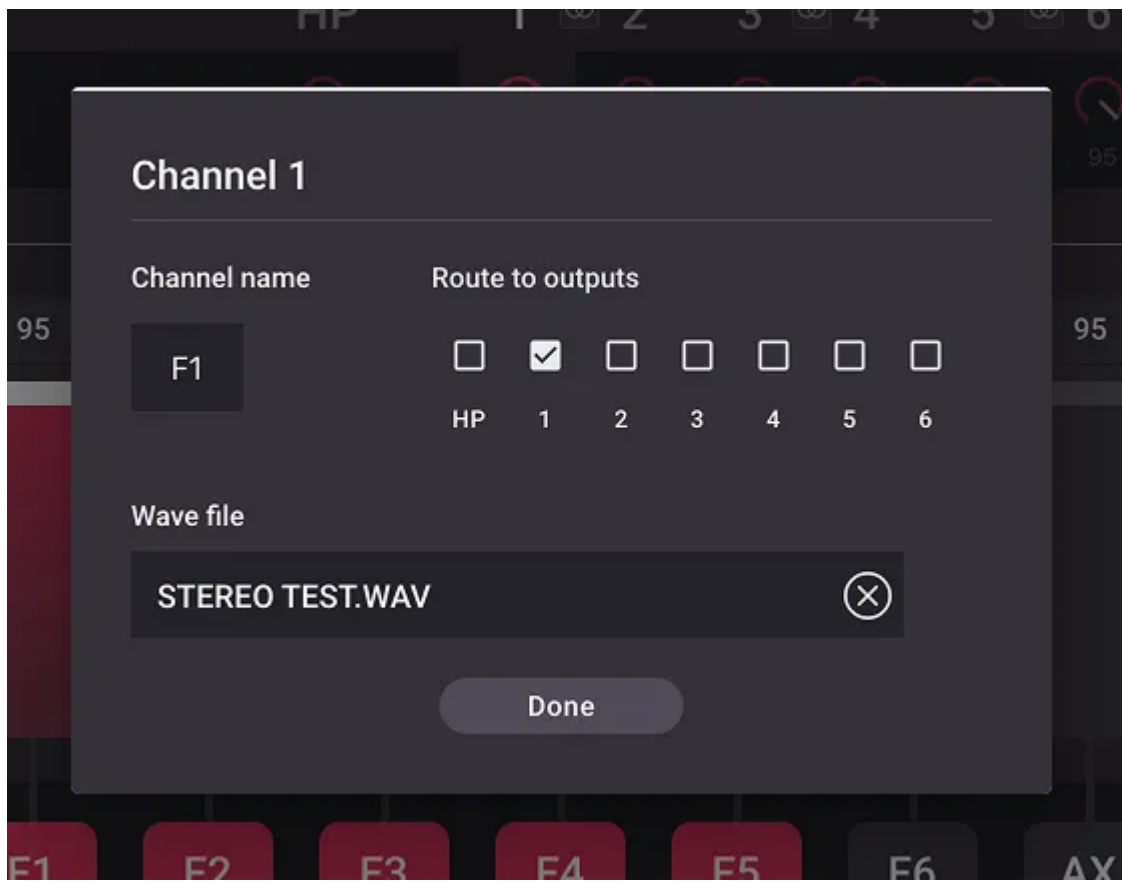
**WAV files should be 16-bit, 44.1 kHz.** Also please note that the P-1 does not currently support non-English alphabet characters in file names.

## Add a WAV file or edit the channel name

Drag a WAV file onto a sound source to add or replace it, or drag multiple WAV files to fill several sound sources at once. You can also click an empty sound source to add a file. To edit a sound source that already contains a file, double-click or right-click it, or hover over it and click the edit button.



The channel edit panel lets you change the channel name, load a WAV file and configure its routing without switching between output mixers.



## Level adjust

This control lets you make an adjustment to all the output levels just for this song. So for instance, if the song is a bit louder than others in the setlist, you can turn this knob down to -2 and it will reduce all of the outputs by -2dB just for this particular song. Note that this is relative to each output's current level. So if an output is at 95 and you set Song Adjust to -2, then the output will be at 93 (-7dB) for this song.

## Connections remaining

This shows how many connections you have available. You may have up to 32 connections between sound sources and outputs active at once. [Read more about connections here.](#)

## BPM

This sets the BPM for the song's visual metronome and MIDI clock, if a MIDI file is not present. If the metronome flash is enabled, the play button will flash at the chosen BPM, before and during playback. If a MIDI file is loaded for the song, the P-1 will use the BPM value set here before the song starts, then switch to taking the BPM from the MIDI file tempo during playback. Note that the BPM setting on the P-1 does not affect the playback speed of the tracks. The P-1 is not capable of time-stretching audio.

## At end of song

This setting defines the behaviour that happens when the song finishes. You have four options:

**Queue next** - Queues the next song in the setlist when the current one finishes. Press PLAY to start it.

**Play next** - This will automatically begin playback of the next song.

**Loop** - This will start playback of the current song again. The song continues to loop until you manually stop it or play another song.

**Stop** - Stops when the current song finishes without changing the selected song.

## MIDI file

Click [here](#) to choose a MIDI file to play during the song. You can load any Type 0 `.mid` file, with up to 16 channels, and it will be played through the MIDI output port on the P-1.

## Done

Click the done button when you are finished editing a song to return to the setlist view.

# Saving and Backing Up Sessions

An .idoru file stores your setlists, song settings and links to your WAV and MIDI files. It does not contain copies of those files. Keep the linked files in their original locations, or create a separate backup containing them.

| Action                     | What it does                                                                                                                             |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Save / Save As</b>      | Saves an .idoru session file. The session continues to use WAV and MIDI files from their existing locations.                             |
| <b>Send session to P-1</b> | Copies everything required by the P-1 to an SD card or another selected folder. The linked source files must be available during export. |
| <b>Import from P-1</b>     | Creates a session from previously exported files. Its WAV and MIDI links point to the SD card or folder from which it was imported.      |

## Keeping a master session

1. Keep your master WAV and MIDI files in stable folders on your computer.
2. Build your session and save it as an `.idoru` file.
3. When the session is ready, use **Send session to P-1** and select the SD card. You can connect the card through the P-1 or insert it directly into your computer.

## Creating a self-contained backup

1. Build your master session, then choose **Send session to P-1**.
2. Select a new empty folder on your computer instead of an SD card. The exported folder is now a backup containing the files required by the P-1.
3. Click **Import from P-1** and choose the exported `lists` folder inside the backup.
4. Save the imported session as a new .idoru file on your computer. This session now links to the WAV and MIDI files in the backup folder.

### Imported sessions use the selected files

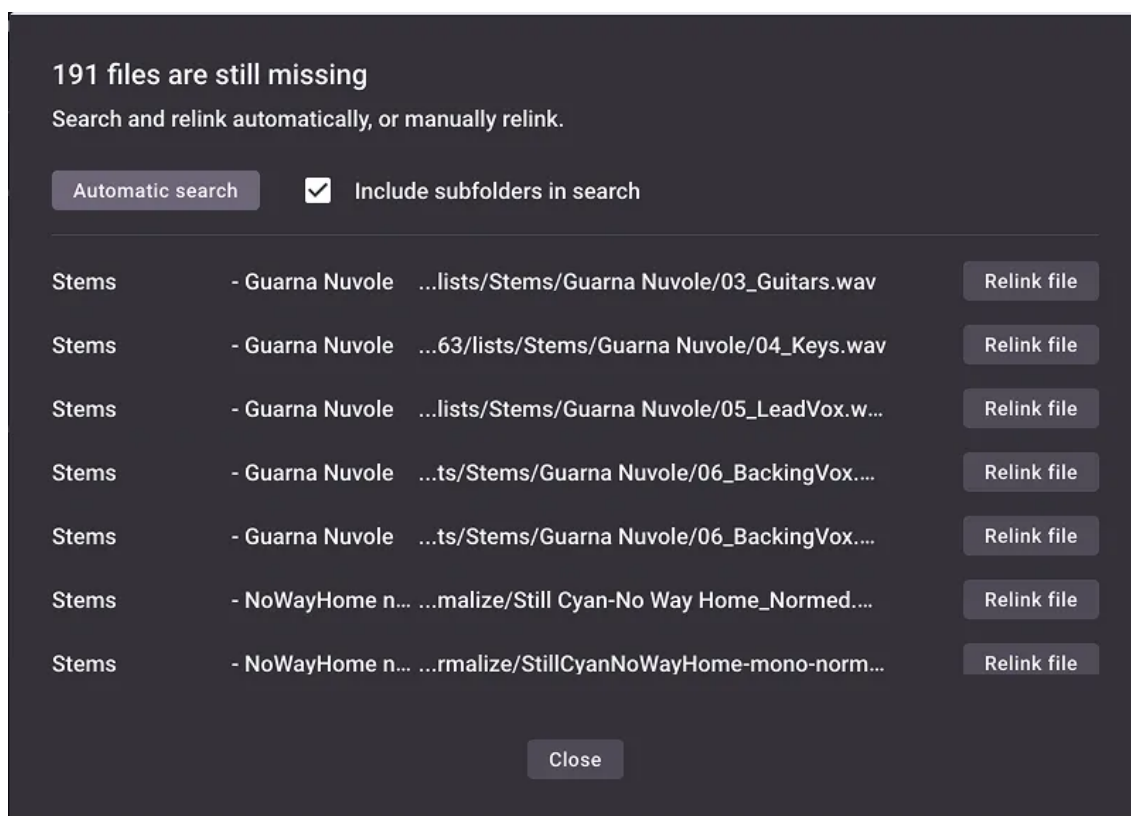
If you import directly from an SD card, the resulting session links to files on that card; the WAV and MIDI files are not copied to your computer. You can edit the session while the card is disconnected, but reconnect it before exporting. Copy the exported SD-card contents to your computer if you want a durable backup.

If the software cannot find linked WAV or MIDI files, see [Relinking Missing Files](#).

# Relinking Missing Files

An `.idoru` session links to WAV and MIDI files stored elsewhere; it does not contain copies of them. Files may need relinking if they have been moved or renamed, or if an external drive is disconnected.

When you open a session, the software checks whether its linked WAV and MIDI files are available. If any are missing, a dialog will list them.



## Search automatically

Click **Automatic search**, select a folder and enable **Include subfolders in search** if needed. The software will look for files whose names match the missing files.

## Choose a replacement file

To select a replacement yourself, click **Relink** beside an individual file.

## Scan an open session

You can start a check at any time by choosing **File > Scan for Missing Files**.

# P-1 song and setlist file syntax

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This information is here just in case you need it. The software will actually create all the files you need to put on the SD card for the P-1, and is the safest way to avoid errors. However, we have designed the P-1's config files to be human-readable and editable with a simple text editor. So in an emergency, for convenience, or if you wish to create custom tools for working with P-1 files, here is how they work:

## SD card folder structure



On the SD card there must be the following folders:

/lists

/update

LISTS contains a folder for each setlist. Each setlist folder contains its configuration file and a subfolder for each song. Each song folder contains the song configuration file ( `.txt` ), its WAV files and its MIDI file.

UPDATE will be where you put firmware updates to install them.

## Song files

Song files define all the settings for a song. Many of these you can change directly on the P-1 from the Edit Song menu. Song file names should be less than 32 characters. Ideal is less than 16 characters as this is what will be visible on the P-1 display when browsing songs on a setlist.

**In a song file the following is defined:**

- The Song Level Adjust amount
- The behaviour at the end of the song (QueueNext, PlayNext, Loop, Stop)
- The visual metronome and MIDI clock tempo
- The 6 WAV files to load for the song
- The MIDI file to load for the song
- Sound source levels to each output

**Here is a breakdown of an example song file:**

```

Global sets
Level- 0          Song boost level
BPM- 101         Visual metronome tempo
AtEnd- QueueNext End of song behaviour

Input Files
F1- "BG" "bog_ DRUM BUS"  F1 = fader no.  "BG" = Fader name  "bog_ DRUM BUS" = wave file
F2- "AH" "bog_ Ahh"      *note do not put the .wav extension
F3- "SY" "bog_ synths"
F4- "HI" "bog_ high freq"
F5- "GU" "bog_ xtraguit"
F6- "BV" "bog_ end bvs"
MIDI- "Body bass 2"      = midi file  *note do not put the .mid extension

HeadPhone
IN1- F1 90
IN2- F2 90
IN3- F3 90
IN4- F4 90
IN5- F5 90
IN6- F6 90
IN7- AN 90  AN is the aux input

Output1
IN1- F1 90
IN2- F2 90
IN3- F3 90
IN4- F4 90
IN5- F5 90
IN6- F6 90
IN7- AN 90

Output2
IN1- F1 90
IN2- F2 90
IN3- F3 90
IN4- F4 90
IN5- F5 90
IN6- F6 90
IN7- AN 90

Output3
IN1- F1 90 MUTE  MUTE - mutes this fader
IN2- F2 90 MUTE
IN3- F3 90 MUTE
IN4- F4 90 MUTE
IN5- F5 90 MUTE
IN6- F6 90 MUTE
IN7- AN 90 MUTE

```

The same format applies for the remaining outputs 4, 5 and 6.

## Setlist files

Setlist files define all the settings for a setlist, and which songs should be in it. Setlist names can be a maximum of 32 characters.

In a setlist file, the following is defined:

- Which outputs are stereo paired
- The volume of the 6 outputs and the headphones output.
- The list of songs in the order they should play.

**Here is a breakdown of an example setlist file:**

## SetList file

### Global sets

StereoLinks- 1-2 5-6 Specify which outputs are linked (share a mixer)

HeadPhone- 78 Headphone output volume for the setlist

Output1- 87

Output2- 87

Output3- 90

Output4- 90

Output5- 90

Output6- 90

Output volumes for the setlist

### Songs

"Blue Romeo"

"Honour"

"TakeHold"

"FractalC"

"Body Of Glass"

"Body Of Glass 2"

"Aggregates"

"Sentinel"

"Wealth"

"JustForNow"

"DownTheW"

"Soulware"

"Ultimate"

"Ultimate 2"

"Lure"

"Ultim intro"

"Ultim v1"

"Ultim chorus1"

"Ultim post1"

"Ultim v2"

Songs file names in order they should appear in setlist

# How to update the firmware

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## Download the latest firmware

You can download the latest Idoru P-1 firmware here: <https://idoru.live/downloads>

1. Download the firmware `.bin` file. Do not unzip it.
2. Make sure the SD card contains at least one setlist and song. At the top level of the card, open the `update` folder and put the `.bin` file inside it. Remove any other files from this folder.
3. Turn off the P-1 and insert the SD card.
4. Hold down the **PLAY** footswitch while connecting power. Release it when the firmware updated message appears.
5. Disconnect and reconnect the power to restart the P-1.

## Reverting firmware

You can also revert back to an earlier version of the firmware using the same method.

# SD cards

---

The Ildoru P-1 comes with an A1 32GB SD card that is already correctly formatted as FAT32, and ready to use for your Ildoru session.

Use a good-quality SD card with your P-1. Cheap or unsuitable cards could cause audio glitches, dropouts, or timing issues during playback.

## What kind of SD card should I use?

We recommend a **32GB A1 rated SDHC card**. The P-1 supports SD, SDHC, and SDXC cards. The most important spec is **random read speed**, not the sequential read/write speed printed on the front of the card.

This distinction matters because most SD card marketing (MB/s figures, UHS-I/UHS-II, “V” video speed classes) describes *sequential* transfer speed - how fast the card streams one long continuous file. That’s the number that matters for recording 4K video. It is **not** a reliable indicator of how the card performs when reading lots of small audio chunks scattered across the card, which is what the P-1 actually does during playback. A card can have an impressive headline speed and still perform poorly for this kind of access pattern.

The spec that *does* describe this is the card’s **Application Performance Class** (A1 or A2). This is a guarantee of minimum random read/write performance, and it’s the rating we recommend you check for, rather than sequential MB/s or UHS class. We recommend a Class 10, A1-rated card, such as [this one](#).

### ① A few other practical notes

- **Use a 32GB A1 rated SDHC card.** They’re large enough for around 50 hours of 16-bit, 44.1 kHz WAV files, and they use FAT32 as their standard format. Larger cards (64GB+) are SDXC, which uses exFAT by default - see “How to format your SD card” below.
- **Avoid cards aimed at high-end video work** (UHS-II, V60/V90, “Tough”/rugged ranges). They’re optimised and binned for sustained sequential throughput, which isn’t the performance characteristic the P-1 needs, and we’ve seen these underperform cards with a much more modest sequential spec.
- The card must be formatted as **FAT32**. If it’s a 32GB card, it’s usually already FAT32 out of the box. This caps usable storage at 32GB even if the card itself is larger.

### ⚠ SD cards with known issues

We've identified specific cards that cause problems with the P-1. Please avoid these:

**SanDisk Extreme PLUS SDHC 100 MB/s UHS-I U3 Class10 32GB**



## How to format your SD card as FAT32

Most 32GB cards arrive already correctly formatted, so they are ready to use in the P-1. How you format one yourself depends on the card's capacity: the SD specification assigns FAT32 to cards up to 32GB (SDHC) and exFAT to cards above that (SDXC).

### 32GB or smaller (SDHC)

These cards use FAT32 as their standard format. We recommend the official SD Memory Card Formatter, as it follows the SD Association's recommended settings for the card exactly - Disk Utility or Windows' Format dialog will also produce a working FAT32 card, but the official tool is the safest default.

#### ***Using the official SD Memory Card Formatter (recommended, Mac and Windows)***

1. Insert the SD card into your computer (directly, via the P-1 connected by USB, or with a card reader).
2. Download and open the [SD Memory Card Formatter](#).
3. Select your SD card from the list - **double-check you've selected the right drive**, as this will erase it.
4. Choose "Quick Format," give the card a name if you like, and click Format.

#### ***On macOS, using Disk Utility***

1. Insert the SD card.
2. Open Disk Utility (search for it in Launchpad).
3. Select your SD card and click Erase.
4. Enter a name, choose **MS-DOS (FAT)** from the Format dropdown.
5. Click Erase.

#### ***On Windows, using File Explorer***

1. Insert the SD card.

2. Right-click the SD card in File Explorer and select Format.
3. Choose **FAT32**, click Start, then OK.

### Cards larger than 32GB:

We recommend sticking to A1 32GB SDHC cards. Cards above 32GB are SDXC, which uses exFAT as its standard format rather than FAT32. If you need more storage, we'd suggest using multiple 32GB cards and swapping between them (see "Working with SD cards" below) rather than a single larger card.

If you'd still like to use a larger card, you'll need a third-party tool to format it to FAT32, such as [DiskGenius](#), since the official SD Formatter only offers exFAT for SDXC cards. You'll still only get 32GB of usable space, as that's the largest partition FAT32 supports.

## Working with SD cards

- You can use multiple cards and swap them as needed - handy for keeping different setlists on different cards.
- Bring a backup card with your sessions to gigs, in case one is lost or damaged.
- The P-1 needs a specific set of files and folders on the card to work properly. Create these using the P-1 software - don't add other files to the card manually.
- Insert the card with the label facing upwards. If the setlists on the card have changed, or it's a new card, you'll be shown a list of setlists - turn the left encoder to select one, and press it to load.
- **Never remove the SD card while the unit is playing a song or transferring data from the computer.** This can corrupt the card's data.
- The physical write-protect lock found on some SD cards is ignored by the P-1 - it can still write to a "locked" card.

# Troubleshooting

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## Check your versions

Make sure you are using the latest Idoru software and firmware: <https://idoru.live/downloads>

## **My Mac will not open the Idoru software. It says the developer cannot be verified.**

**If you are using a version of macOS earlier than Sequoia and cannot open the app:**

- Right-click (command+click) the application and select 'open'.
- This will show a warning again but with an open button. After you do this the first time it will then open like normal each time after that. The warning happens because we still need to officially register the software with Apple and get them to whitelist it.

**If you are using macOS Sequoia or later and cannot open the app:**

- Open System Settings (or System Preferences) on your Mac.
- Navigate to Privacy & Security.
- Scroll down to the section labeled "Some apps were blocked from opening."
- Locate the blocked software and click "Allow Anyway."
- Now try to open the app again.

## **The SD card in the P-1 never shows up on my computer when I connect the USB cable, or keeps disappearing.**

### **Check your permissions**

Make sure you have given any permissions required in your OS to mount external storage.

### **Alternatively, use an SD card reader**

You can also use any SD card reader, instead of using the P-1 to read and write to the card. Just put the SD card in your reader, and target it when exporting from the software. Or target an empty folder on your computer during export, and drag the exported folders onto the SD card manually when ready.

### **Check your cable**

The P-1 is a USB 2.0 device and requires a proper **USB data cable** to connect.

If the wrong type of cable is used (for example, a charge-only cable, or one that isn't fully wired for USB 2.0), the P-1 may not appear on your computer, or it may connect briefly and then disappear.

To avoid this, make sure you are using:

- A **USB-B to USB-A data cable** (for computers with USB-A ports), or
- A **USB-B to USB-C data cable** that is **USB-IF certified** (for computers with only USB-C ports).

- Alternatively, you can use a USB-B to USB-A data cable together with a USB-A to USB-C adapter or hub.

## **My P-1 is stuck showing the message ‘USB MASS STORAGE MODE’.**

**Make sure the SD card has a valid session on it** You need to have created a session with at least one song in it on the software, and sent it to the SD card for the device to read the card.

### **Make sure you export to the root of the SD card**

When you click ‘Send session to P-1’ in the software, a window will appear to choose the target. Make sure you are selecting the root of the SD card to export to by clicking on its volume name, and are NOT selecting inside the ‘lists’ folder.

### **If you are on Windows and using your own SD card which is larger than 32GB:**

If you are using a card that came with your P-1 it is already formatted correctly and ready to use.

If you are using another card, make sure it is formatted with the FAT32 filesystem. Windows no longer lets you do this easily with cards larger than 32GB, so please follow the instructions here if you use a larger card:

<https://www.diskgenius.com/resource/how-to-format-sd-card-to-fat32.html>

### **If you are using your own SD card on Mac:**

If you are using a card that came with your P-1 it is already formatted correctly and ready to use.

If you are using another card, make sure it is formatted as FAT32, which appears as ‘MS-DOS (FAT)’ format in Disk Utility. You must also use this format even if the card is larger than 32GB.

### **Check the connection:**

When you eject the P-1 in Finder, it may reconnect a few seconds later. Make sure you eject and then unplug the USB cable from the P-1 to exit USB mass storage mode.

If the pedal is still stuck in mass storage mode, power on and off the pedal by removing and reinserting the power supply to the pedal.

## **The song shows up as 0:00 length on the P-1 and does not play.**

- Check your WAV files are in 16-bit, 44.1 kHz format.
- **Update your firmware** on the pedal to at least version 3.27. There is a known issue with audio files exported from Switch Audio Converter, and Cakewalk Sonar when using firmware versions earlier than v3.27.
- Check you have at least one WAV file in the song in your software. The P-1 will play a song with only a MIDI file and output the MIDI messages, but no song length will be shown.
- The P-1 currently supports setlist, song and file names with the characters a-z, A-Z, 0-9 and symbols !@#\$%^\_+=-&()
- Check that your setlist, song and filenames only contain these characters.
- Check that the names are under 32 characters.

## The pedal gets stuck on the startup screen

This usually happens if the files on the SD card are not in the structure the P-1 expects. Check your SD card has one folder called 'lists' and one called 'update'. Inside the 'lists' folder there should be a folder for each setlist, and inside each setlist folder should be a folder for each song.

Please avoid storing saved sessions (.idoru files) directly on the SD card. These files are intended to be saved on your computer for when you need to reopen a session in the desktop software, and they may interfere with the P-1 reading the exported session if stored on the SD card.

If you see multiple 'lists' folders nested inside each other, then the software may have incorrectly exported your new session inside the old one, instead of overwriting it. In this case follow these steps:

- Copy the contents of the SD card somewhere on your computer to back it up.
- Delete everything on the SD.
- Open your session in the Idoru desktop software by selecting 'Load' and selecting the .idoru file that contains your session.
- Click the 'Send session' button and select the root of the SD card by clicking on its name on the file explorer window that appears. Note that you do not need to select or open any subfolders, only target the root of the SD.
- Send the session to the SD card.

## I am not getting MIDI output from the P-1

If you are attempting to play a MIDI file and are not getting any signal from the P-1's output, make sure you have MIDI Thru turned OFF in the settings menu. MIDI Thru will directly pass signals from the P-1's MIDI input to the MIDI output, but does not merge in MIDI being played by the P-1.

## I have trouble with my MIDI file

Check that your MIDI file has the extension `.mid`. If your file has the extension `.midi` (for example, from Cubase), you can rename it to `.mid` so it imports properly into the software.

If you are using Ableton, note that its MIDI export has some limitations:

- MIDI files will always be exported as 120 BPM.
- MIDI files will only contain one MIDI channel.
- Patch change messages may not work.

In this case, you can use Reaper or another DAW to correctly edit and export your MIDI files.

## I cannot open the menu by pressing the left (white) knob

The menu will not open if the player is in a playing or paused state. If you are using the default control system, hold down the play button for 1.5 seconds so the player stops the song. With the player now in the stopped state, press the left knob and the menu should open.

## **I am getting clicking, popping, glitching or time-stretching noises during playback**

Try a faster SD card, it may be that the read and write speed of your SD card is too slow for the number of tracks you are using.

Idoru P-1 supports SD, SDHC, and SDXC cards. It is important that card has fast enough random read speed, for this reason we recommend Class 10 SD cards with A1 class ([Speed Class 1](#)).

Also try erasing your SD card and copying the session back on to it. Severe fragmentation or possible corruption of the card may cause reading issues.

## **I'm getting unpredictable behaviour when trying to play songs on the P-1**

The P-1 currently supports setlist, song and file names with the characters a-z, A-Z, 0-9 and symbols !@#\$%^\_+=-&()

- Check that your setlist, song and filenames only contain these characters.
- Check that the names are under 32 characters.

If everything is exported from the Idoru software then it should all be compliant.

## **The software is stuck copying files to the P-1 and never finishes.**

- Try creating an empty folder on your computer and set this as the target when you click 'Send session to P-1'. If the export completes, you can copy the contents of this folder (the 2 folders 'lists' and 'update') onto your SD card and try it in the P-1.
- If you have an SD card reader, try using the SD card in that and select it as the target after clicking 'Send session to P-1'. If the export completes, try using the card in the P-1.

If you have a lot of WAV files, it may take a while for the session to finish copying, although you should still see the red progress bar at the top of the screen start to fill up after a minute or so, even with large sessions.

We are looking into improving the write speed of the P-1 during export operations.

## **When I insert an SD card I can see the name of the setlists but no controls are working.**

- Turn the left encoder to select which setlist you want to load, and press it to load the selected setlist.

## **When I try to update the firmware on the P-1, it says 'There is no valid file'.**

- Make sure there is at least one setlist and song on the card.
- Try allowing the unit to start normally (with nothing held down), and check the number that appears on the start up screen next to 'SW'. This is the currently installed firmware version, the device will only let you install a version that is different to the currently installed one.

# Technical specifications

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- Physical dimensions: 21.5 x 17 x 6 cm
- Weight: ~1.2kg
- Powder painted 1.6mm galvanised steel enclosure.
- 6 impedance-balanced mono outputs: 1/4" jack
- 5-pin DIN MIDI input and output
- Stereo headphone output: 3.5 mm jack
- Balanced mono aux input: 3.5 mm jack; firmware v3.27 can also accept unbalanced or stereo 3.5mm sources using the AUX INPUT setting
- USB B port: For computer connection file transfer
- USB A port: *For future functionality*
- 128 x 64 pixel LCD display
- Includes power supply with switchable blades: 12v DC 1000mA, tip positive
- Removable SD card storage (FAT32 filesystem)
- Playback of 6 stereo or mono 16-bit, 44.1 kHz WAV files
- Playback of multichannel Type 0 MIDI files, including CC and PC messages
- Sends and receives MIDI clock and transport messages when enabled
- Designed to be operated by hands, feet, or MIDI controller
- macOS and Windows desktop software for creating and editing setlists and songs