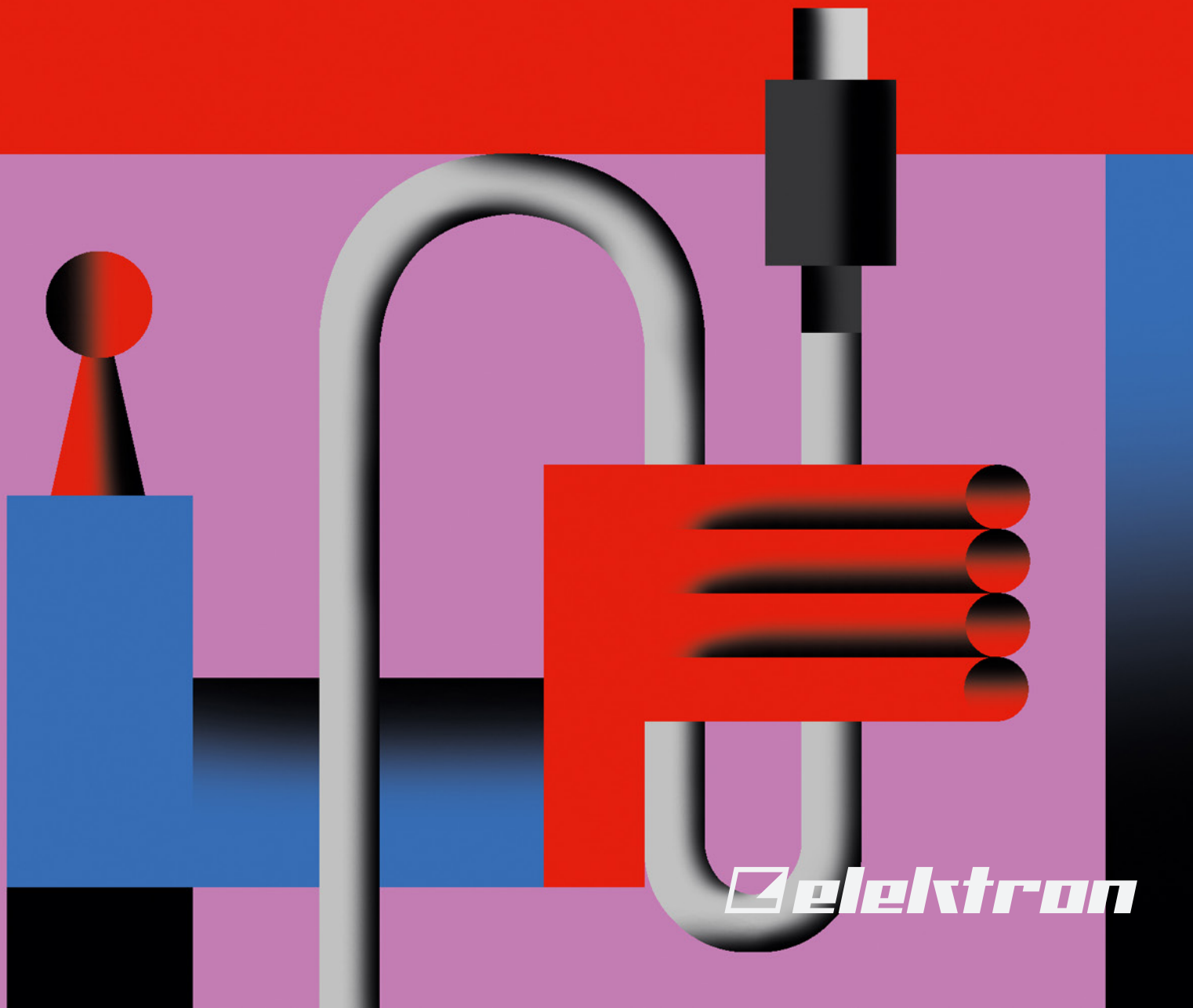


Outbox 8

User Manual



 **elektron**

FCC compliance statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

AVERTISSEMENT: Cancer et effet nocif sur la reproduction – www.P65Warnings.ca.gov

ADVERTENCIA: Cáncer y Daño Reproductivo – www.P65Warnings.ca.gov

Canada

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003.

European Union regulation compliance statement

This product has been tested to comply with the Low Voltage Directive 2014/35/EU and the Electro-magnetic Compatibility Directive 2014/30/EU. The product meets the requirements of RoHS 2 Directive 2011/65/EU.



This symbol indicates that your product must be disposed of properly according to local laws and regulations.

Legal disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by Elektron. Elektron assumes no responsibility for any errors that may appear in this document. Elektron 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 Elektron 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.

IMPORTANT SAFETY AND MAINTENANCE INSTRUCTIONS

Please read these instructions carefully and adhere to the operating advice.

1. Do not use this unit near water.
2. Never use aggressive cleaners on the casing. Remove dust, dirt and fingerprints with a soft, dry and non-abrasive cloth. More persistent dirt can be removed with a slightly damp cloth using only water. Disconnect all cables while doing this. Only reconnect them when the product is safely dry.
3. Install in accordance with the manufacturer's instructions. Make sure you place the unit on a stable surface before use.
4. Connect the unit to an easily accessible electrical outlet close to the unit.
5. When transporting the unit, use accessories recommended by the manufacturer or the original box and padding.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or any other equipment (including amplifiers) producing heat.
7. This product, by itself or in combination with amplifiers, headphones or speakers, is capable of producing sound levels that may cause permanent hearing loss. Do not operate at a high volume level or at a level that is uncomfortable.
8. Protect any cables from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the device.
9. Only use attachments/accessories specified by the manufacturer.
10. Unplug this unit during lightning storms or when it is not used for long periods of time.
11. Refer all servicing to qualified service technicians. Servicing is required when the unit has been damaged in any way, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

To reduce the risk of fire, electrical shock or product damage:

- Do not expose the unit to rain, moisture, dripping or splashing and also avoid placing objects filled with liquid, such as vases, on the unit.
- Do not expose the unit to direct sunlight, nor use it in ambient temperatures exceeding 40°C as this can lead to malfunction.
- Do not open the casing. There are no user repairable or adjustable parts inside. Leave service and repairs to trained service technicians only.
- Do not exceed the limitations specified in the Electrical specifications.

TABLE OF CONTENTS

1. INTRODUCTION	5
1.1 CONVENTIONS IN THIS MANUAL.....	5
2. THE OUTBOX 8.....	6
2.1 FRONT.....	6
2.1.1 THE STATUS LED.....	6
2.2 BACK	6
2.3 BOTTOM	7
2.4 SETTING UP AND STARTING THE OUTBOX 8	7
3. USING OUTBOX 8 WITH AN ELEKTRON DEVICE	8
3.1 COMPATIBLE ELEKTRON DEVICES	8
3.3 THE OUTBOX 8 MENU	8
3.3.1 ROUTING CONFIG	9
3.3.2 AUDIO TRACK ROUTING	9
3.3.3 CV OUTPUT CONFIGURATION.....	10
3.4 OUTBOX 8 MIXER PAGE.....	12
3.4.1 ACCESSING THE OUTBOX 8 MIXER PAGE.....	12
4. THE OUTBOX 8 WEB APP	13
4.1 CREATING A DEVICE PROFILE.....	13
4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8	14
4.3 UPDATING THE OUTBOX 8 OS	14
5. OUTBOX 8 USE CASES	15
5.1 ADDING AUDIO OUTPUTS TO YOUR ELEKTRON DEVICE	15
5.2 USING YOUR ELEKTRON DEVICE TO CONTROL A MODULAR SYSTEM	16
5.3 ADDING BOTH AUDIO AND CV OUTPUTS	18
5.4 TOGETHER WITH A COMPUTER.....	18
5.5 MIDI TO CV CONVERTER.....	19
5.6 TOGETHER WITH A NON-ELEKTRON CLASS-COMPLIANT DEVICE.....	19
6. TECHNICAL INFORMATION.....	20
7. CONTACT INFORMATION	20
APPENDIX A: DEVICE AUDIO OUTPUTS.....	21
A.1 ANALOG KEYS / FOUR MKI.....	21
A.2 ANALOG RYTM MKI.....	21
A.3 ANALOG HEAT MKI/MKII/+FX CHANNELS.....	21
A.4 TONVERK CHANNELS	21
INDEX	23

1. INTRODUCTION

Outbox 8 is a versatile audio and CV breakout box with eight fully configurable analog outputs. It is a powerful tool designed to bridge the gap between your digital and analog worlds.

Split your audio and maximize your connectivity to link up with mixers, effects, and modular systems. Channel by channel.

You can route, depending on the device, your device's tracks to any of its outputs: one track to all outputs, all tracks to one output, and everything in between. Or convert MIDI to CV and send it via those eight outputs to control your modular rig and other CV-controllable devices. Mix and match audio and CV as you desire.

Outbox 8 works with Elektron Overbridge-enabled units, USB class-compliant MIDI interfaces, and many USB class-compliant audio devices. It also works as a soundcard for your computer.

Whether you're producing in the studio or performing live, the Outbox 8 gives you the connectivity and control you need to push your sound further.

Sincerely,

The Elektron Team

1.1 CONVENTIONS IN THIS MANUAL

We have used the following conventions throughout the manual:

Key names are written in upper case, bold style and within brackets. For instance, the key labeled "FUNC" is written as **[FUNC]**.

Knobs are written in upper case, bold, italic letters. For instance, the knob "DATA ENTRY" is written ***DATA ENTRY***.

Menu names are written in upper case letters. The OUTBOX 8 menu is an example of that.

Parameter names and certain menu options where settings can be made or actions performed are written in bold, upper case letters. For example, **MIDI CHANNEL**.

Upper case letters are used for parameter setting alternatives. For example, V-TRIG.

LED indicators are written like this: <STATUS LED>.

The following symbols are used throughout the manual:



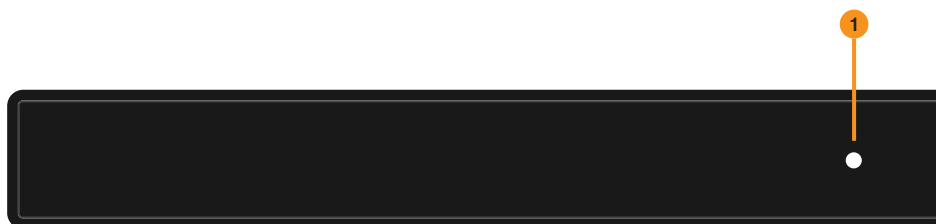
Important information that you should pay attention to.



A tip that will make it easier for you to interact with the Outbox 8.

2. THE OUTBOX 8

2.1 FRONT



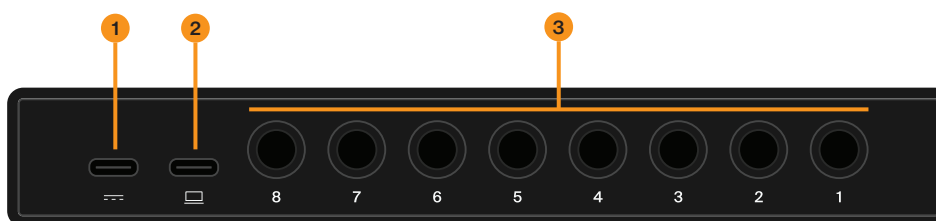
1. <STATUS LED> shows the status of the Outbox 8.

2.1.1 THE STATUS LED

The status LED uses different colors and behaviors to show what the Outbox 8 is doing.

- **OFF** No power is connected.
- **GREEN** (breathing) No device is connected.
- **GREEN > WHITE** (flashes first green for a couple of seconds and then turns white) A new device was connected to the Outbox 8 and a new device profile was created. The Outbox 8 is then ready to use.
- **RED > WHITE** (flashes first red for a couple of seconds and then turns white) A new device was connected to the Outbox 8 but there are no free device profile slots. The Outbox 8 is then ready to use but only with the default configuration. This LED behavior can also mean that you have connected an Elektron device running a not fully compatible OS.
- **WHITE** Outbox 8 is ready to stream audio (via class-compliant or Overbridge) and/or MIDI, using a saved configuration.
- **BLUE** Outbox 8 is connected to a USB host and is exposing a USB class-compliant audio interface and a USB MIDI interface, using an internally saved configuration.
- **YELLOW** (flashing) Outbox 8 is updating its firmware.
- **RED** An error has occurred.
- **RED** (blinking) Outbox 8 is connected to a non-supported device.

2.2 BACK



1. **USB POWER** For connecting a power supply to Outbox 8. Use a USB-C cable connected to a power adapter (not included), connected to a power outlet. You can also connect it to a computer and power it from there.
2. **USB DATA** For connecting to a computer or another USB host device to transfer audio, MIDI, and data. You can also connect other Elektron devices here, letting Outbox 8 act as a USB host. This port can also be used for powering the Outbox 8 from a USB host device.
3. **OUT 1–8**, Audio/CV outputs. Use either a 1/4" (Tip/Ring/Sleeve) phone plug (balanced connection) or a 1/4" mono phone plug (unbalanced connection).

2.3 BOTTOM



1. **FACTORY RESET** Power on the device, then insert a paperclip or similar thin object firmly into the small pinhole and hold it in. After 2 seconds the LED will start flashing blue – keep holding for 5 more seconds until the device restarts with its factory settings restored.

RECOVERY MODE Recovery mode can be used if a firmware update fails or the device stops working. Insert a paperclip or similar thin object firmly into the small pinhole and hold it in, then connect a cable between USB DATA and your computer. Do not use a power adapter in the USB POWER port in this mode. Once connected, the LED will start breathing purple. Use the web app to reinstall the OS. The device will show up as “Outbox 8 (RECOVERY)” on your computer.

2.4 SETTING UP AND STARTING THE OUTBOX 8

Place the Outbox 8 on a stable surface, such as a sturdy table, with enough space for all the cables. Before making any connections, make sure the Outbox 8 and any devices you’re connecting it to are powered off. Also make sure Outbox 8 is running the latest OS. For more information, please see “4.3 UPDATING THE OUTBOX 8 OS” on page 14.

1. Connect a USB power adapter (not included) to Outbox 8’s USB POWER connector.

or...

If you use Outbox 8 together with a class-compliant USB host device, such as a computer, connect a USB cable between the host device and Outbox 8’s USB DATA connector. It will then also get its power from this connection.

2. Connect OUT 1–8 from the Outbox 8 to your mixer, amplifier or CV inputs depending on what signals you want to send.
3. Turn on all devices. Outbox 8 powers on automatically when connected to a power source.



Note that when connecting Outbox 8 to a device that can act as both a USB host and a USB device, you may need to experiment with the connection and power-on order. Try disconnecting and reconnecting Outbox 8 to the device until you achieve the desired mode of the Outbox 8, either as a USB device (LED turns blue) or USB host (LED turns white).

3. USING OUTBOX 8 WITH AN ELEKTRON DEVICE

If you're using Outbox 8 with a compatible Elektron device, you can set it up directly from the device itself or using the web app. In your Elektron device, just go to **SETTINGS > OUTBOX 8**. In this menu, you can choose what each of Outbox 8's outputs should do and adjust the settings for each output individually. Make sure to always update your Elektron device to the latest OS version to ensure everything works as intended. For information about using the web app to set up the Outbox 8, please see "4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8" on page 14.

3.1 COMPATIBLE ELEKTRON DEVICES

These Elektron devices are compatible with Outbox 8, but depending on which one you're using, you get different sets of functionality. The device you're using also determines whether you set up Outbox 8 directly on the device or via the Outbox 8 Web App.

	Multi-track streaming	Two-channel streaming*	MIDI-CV USB	MIDI-CV DIN or TRS**	Mixer page	In-device setup	Web app setup
Digitakt I/II	X		X	X	X	X	
Digitone I/II/Keys	X		X	X	X	X	
Syntakt	X		X	X	X	X	
Analog RytM MKII	X		X	X		X	
Analog Four MKII	X		X	X		X	
Analog RytM MKI	X		X	X			X
Analog Four MKI/Keys	X		X	X			X
Tonverk***	X		X	X			X
Analog Heat MKI/MKII/+FX	X			X			X
Model Samples		X	X	X			X
Model Cycles		X	X	X			X
Octatrack MKI/MKII				X			X
Machinedrum/UW				X			X
Monomachine/Keys				X			X

* Model Samples and Model Cycles can only route the audio from the main outputs.

** DIN or TRS MIDI needs to be converted to USB MIDI using a class-compliant MIDI-USB interface.

*** Limited functionality (High audio streaming latency and no in-device setup).



For Analog RytM MKI, Analog Four MKI/Keys, Tonverk, and Analog Heat MKI/MKII/+FX, go to **SETTINGS > SYSTEM > USB CONFIG** and select **OVERBRIDGE** for Outbox 8 to work with these Elektron devices.

3.2 CONNECTING THE OUTBOX 8 TO THE ELEKTRON DEVICE

Before you can access the Outbox 8 settings, you'll need to connect Outbox 8 to your Elektron device. Use a compatible USB cable to connect the two, using the USB DATA jack. Connect a power supply to the USB POWER jack, and then turn on both your device and Outbox 8.

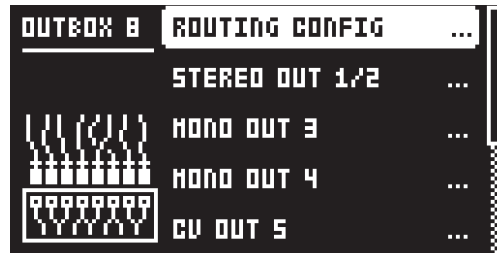
3.3 THE OUTBOX 8 MENU

The Outbox 8 outputs are configured and set up in this menu. Here you can decide what each of the Outbox 8's outputs will do and specify the settings for each output. First, you should configure the type of signal each output is used for: Audio or CV. Then route the Elektron devices' audio tracks to the Outbox 8's audio outputs and configure the settings for the CV outputs.

On your Elektron device, go to **SETTINGS > OUTBOX 8**, then press **[YES]** to open the OUTBOX 8 menu.

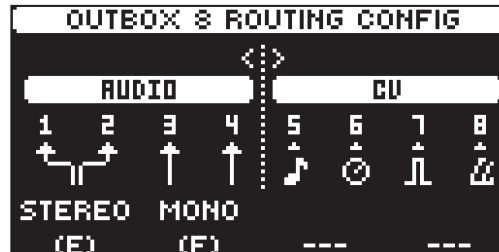


The **OUTBOX 8** menu is only available if an Outbox 8 is connected to your Elektron device, the device supports in-device setup, and it is running the latest OS.



3.3.1 ROUTING CONFIG

Here, you set up what kind of signals each of the Outbox 8's outputs should send: Audio or CV.



Use [LEFT]/[RIGHT] to set which outputs should be for Audio or CV. Press [RIGHT] to add audio outputs. Press [LEFT] to add CV outputs. The first audio output is always output 1. The first CV output is always output 8. On Digitakt II and Digitone I/II, you can configure audio outputs as either individual mono outputs or as combined stereo pairs. Use the *DATA ENTRY* knob *E* to select if outputs 1 and 2 should be two mono outputs or combined to a stereo output. *DATA ENTRY* knobs *F-H* perform the same action, but for outputs 3/4, 5/6, and 7/8.

Press [YES] to save the configuration and exit the ROUTING CONFIG menu.



If you exit the ROUTING CONFIG menu and have made any changes that include adding CV functionality to one or more outputs, a pop-up message will appear, instructing you to check your cable connections before proceeding. Sending CV to an output that is connected to amplifiers/speakers/headphones could damage this equipment. When you press [YES], the changes will take effect.



- When routing a stereo signal to a mono output, the signal is summed to mono.
- When routing a mono signal to a stereo output, the signal is duplicated to both outputs.

3.3.2 AUDIO TRACK ROUTING

The next step is to assign the audio tracks, effects, and inputs of the Elektron device to specific outputs. In the OUTBOX 8 menu, you can now (If you have set up any outputs to be audio outputs) use [UP]/[DOWN] to select an audio output, or output pair, and then press [YES] to open the TRACK ROUTING screen for that output.



Use the [TRIG] keys to select which tracks, inputs, and effects you want to send to the selected output. You can route multiple tracks to the same output, and you can also send a single track to multiple outputs. MIDI tracks can not be selected. Use [UP]/[DOWN] to navigate between the track pages if the Elektron device has more than 16 tracks, effects, and Inputs in total.



The number of tracks, effects, and inputs you can route depends on the connected Elektron device.

3.3.3 CV OUTPUT CONFIGURATION

If you have set up any outputs to be CV outputs, these can be configured in a number of different ways. Use [UP]/[DOWN] to select a CV output, and then press [YES] to open the CV CONFIGURATION menu for that output. Use [UP]/[DOWN] to select a parameter and then use [LEFT]/[RIGHT] or *DATA ENTRY* knobs *A-H* to set the parameter value.

CV 5 CFG	CV TYPE	PITCH V/oct
	MIDI CHANNEL	1
	NOTE 1	C 3
	VOLTAGE 1	0.000 V
	NOTE 2	C 5

CV TYPE selects what kind of signal the output will send. You can choose between GROUNDED, PITCH V/OCT, PITCH HZ/V, VALUE LIN, TRIG, GATE, and CLOCK. Your choice of **TYPE** determines which parameters will be available for adjustment.

GROUNDED Disables the CV output, setting it to 0 V. No additional parameters available. This is the default setting.

PITCH V/OCT Volt/Octave is used to control the pitch of equipment according to this standard, which is the most common for analog synthesizers and modular systems.

MIDI CHANNEL This is the MIDI channel used to control the CV signals sent from the selected output. Use a MIDI track on the Elektron device and set it to send MIDI data to this MIDI channel. For details on how to do this, refer to your Elektron device's User Manual.

NOTE 1 The note used to send out the voltage set by **VOLTAGE 1**.

VOLTAGE 1 The amount of voltage sent by the note set by **NOTE 1**. (0.000 V – +5.000 V)

NOTE 2 The note used to send out the voltage set by **VOLTAGE 2**.

VOLTAGE 2 The amount of voltage sent by the note set by **NOTE 2**. (0.000 V – +5.000 V)

PITCH BEND DEPTH Sets how much incoming pitch-bend data affects the output voltage. The amount is specified in semitone steps.

PITCH HZ/V Hertz/Volt is used to control the pitch of equipment according to this standard, primarily older synthesizers from brands like Korg and Yamaha.

MIDI CHANNEL This is the MIDI channel used to control the CV signals sent from the selected output. Use a MIDI track on the Elektron device and set it to send MIDI data to this MIDI channel. For details on how to do this, refer to your Elektron device's User Manual.

NOTE 1 The note used to send out the voltage set by **VOLTAGE 1**.

VOLTAGE 1 The amount of voltage sent by the note set by **NOTE 1**. (0.000 V – +5.000 V)

NOTE 2 The note used to send out the voltage set by **VOLTAGE 2**.

VOLTAGE 2 The amount of voltage sent by the note set by **NOTE 2**. (0.000 V – +5.000 V)

PITCH BEND DEPTH Sets how much incoming pitch-bend data affects the output voltage. The amount is specified in semitone steps.



The default **NOTE** and **VOLTAGE** settings usually don't need to be changed. However, if you want to fine-tune things, you also have the option to calibrate the pitch control.

The **NOTE** and **VOLTAGE** settings are used to calibrate the CV pitch control for both the **V/OCT** and **HZ/V TYPE** settings. This is how you use these parameters to calibrate the CV pitch:

CV pitch is configured by finding the voltages generating two different notes from the synthesizer you wish to control. To get a good result, you should select notes two or three octaves apart.

1. Set up a gate output linked to the same source device as the pitch output.
2. Set **NOTE 1** and **OCTAVE** to **C3**. Send note **C3** by **MIDI** to the Outbox 8 or use the web app keyboard, and then adjust **VOLTAGE OFFSET** until your device plays **C3** in tune. Use a tuner if possible, or tune by ear.
3. Repeat for **NOTE 2** choosing a note 2–3 octaves higher (e.g. **C5** or **C6**).
4. Play some random notes to verify tuning

VALUE LIN lets you use a MIDI CC parameter, or messages such as Aftertouch, Velocity, Pitch Bend, or Program Change, to generate a linear CV output. It can also be useful when sequencing or parameter locking voltage-controlled analog equipment.

MIDI CHANNEL This is the MIDI channel used to control the CV signals sent from the selected output. Use a MIDI track on the Elektron device and set it to send MIDI data to this MIDI channel. Please refer to the Elektron device's User Manual for instructions on how to do this.

MIN VOLTAGE Minimum voltage level sets the lowest allowed voltage level that can be sent from the CV output. (-5.000 V – +5.000 V)

MAX VOLTAGE Maximum voltage level sets the highest allowed voltage level that can be sent from the CV output. (-5.000 V – +5.000 V)

MIDI MSG sets which type of MIDI signal that is used to be converted to CV. (CC, Velocity, Pitch Bend, Aftertouch, Program Change)

MIDI CC selects the CC number used for the CV conversion. This option is only available if **MIDI MSG** is set to CC.

TRIG is used to send out short trig pulses at the start of note events.

MIDI CHANNEL This is the MIDI channel used to control the trig signals sent from the selected output. Use a MIDI track on the Elektron device and set it to send MIDI note data to this MIDI channel. Please refer to the Elektron device's User Manual for instructions on how to do this.

POLARITY selects the polarity of trig signals sent. V-TRIG (voltage trigger) is a trig pulse going from 0 V to a voltage level defined by the **LEVEL** parameter. S-TRIG (short circuit trigger) goes the other way, from the **LEVEL** defined voltage level to 0 V. V-TRIG is the most common trig polarity. S-TRIG is primarily used by older Moog, Korg and Yamaha synths.

LEVEL sets the level of trigs sent, measured in volts. (0.000 V – +5.000 V)

MIDI MESSAGE selects which type of MIDI signal that is used to be converted to CV trigs. (NOTE, START CONTINUE, and STOP).

LENGTH selects the length of trig signal. Some equipment might not trig correctly on the shortest pulses, so try different lengths if you experience problems.

GATE is used to send a pulse which duration is determined by the note length.

MIDI CHANNEL This is the MIDI channel used to control the gate signals sent from the selected output. Use a MIDI track on the Elektron device and set it to send MIDI note data to this MIDI channel. Please refer to the Elektron device's User Manual for instructions on how to do this.

POLARITY selects the polarity of gate signals sent. V-TRIG (voltage trigger) is a pulse going from 0 V to a voltage level defined by the **LEVEL** parameter. S-TRIG (short circuit trigger) goes the other way, from the **LEVEL** defined voltage level to 0 V. V-TRIG is the most common trig polarity. S-TRIG is primarily used by older Moog, Korg and Yamaha synths.

LEVEL sets the level of trigs sent, measured in volts. (0.000 V – +5.000 V)

MODE selects which type of MIDI signal that is used to be converted to CV gates. (NOTE, NOTE VELOCITY, and START-STOP. When set to NOTE VELOCITY the velocity amount affects the gate level.

CLOCK sends periodical pulses with an interval synced to the sequencer by converting the internal clock of the sequencer into a CV clock.

LENGTH selects the length of clock signal. Try different lengths if you experience problems when trying to clock external devices.

POLARITY selects the polarity of the clock trig signals sent. V-TRIG (voltage trigger) is a trig pulse going from 0 V to a voltage level defined by the **LEVEL** parameter. S-TRIG (short circuit trigger) goes the other way, from the **LEVEL** defined voltage level to 0 V. V-TRIG is the most common trig polarity. S-TRIG is primarily used by older Moog, Korg and Yamaha synths.

LEVEL sets the level of the clock trigs sent, measured in volts. (0.000 V – +5.000 V)

PULSE INTERVAL sets the interval of the clock pulses being sent out set in musical relations to the device BPM.



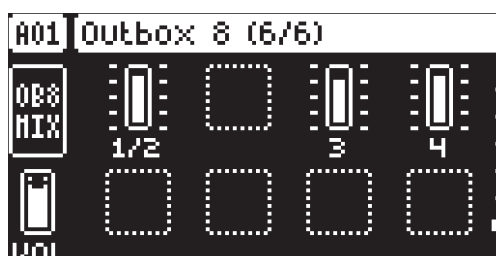
On your Elektron device, in **SETTINGS > MIDI CONFIG > SYNC** make sure that **CLOCK SEND** and **TRANSPORT SEND** is enabled.



- All of these configuration settings are also available in the web app, which lets you configure non-Elektron devices using a computer. For more information, please see “4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8” on page 14.
- On your Elektron device, in **SETTINGS > MIDI CONFIG > PORT CONFIG**, make sure that **OUTPUT TO** is set to **USB** or **MIDI+USB**.

3.4 OUTBOX 8 MIXER PAGE

When the Outbox 8 is connected, the levels of the Outbox 8 audio outputs are accessible in the Elektron device. The parameters available on the Outbox 8 mixer page reflect the settings in the Outbox 8 output's routing configuration. For more information, please see “3.3.1 ROUTING CONFIG” on page 9. The Outbox 8 mixer page is only available if you have at least one output configured as an audio output.



1–8 sets the levels of the audio outputs. 1/2 shows that outputs 1 and 2 are configured as a stereo output.



- The Outbox 8 mixer page is not available if you have configured all Outbox 8 outputs as CV outputs.
- The Outbox 8 mixer page is not available on Analog Rytm MKI/MKII, Analog Four MKI/MKII, Analog Keys, Analog Heat MKI/MKII/FX, or Tonverk.
- Outputs configured as CV outputs are not displayed.

3.4.1 ACCESSING THE OUTBOX 8 MIXER PAGE

How to access the Outbox 8 mixer page depends on your connected Elektron device.

DIGITAKT II, DIGITONE II

Press and hold **[FUNC]**, and then press **[MOD]** repeatedly to cycle through the parameter group's pages until you reach the Outbox 8 audio mixer page.

DIGITAKT I, DIGITONE I, DIGITONE KEYS, SYNTAKT

Press and hold **[FUNC]**, and then press **[LFO]** repeatedly to cycle through the parameter group's pages until you reach the Outbox 8 audio mixer page.

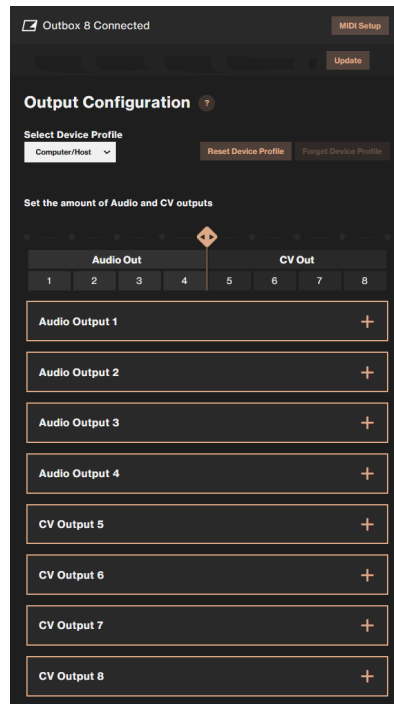
4. THE OUTBOX 8 WEB APP

If you're using Outbox 8 with an Elektron device that doesn't support on-device configuration, or together with a class-compliant USB device or host, you can use the dedicated Outbox 8 Web App to configure it instead. The web app is a browser-based application that uses the Web MIDI API, which is supported by most modern browsers.



The web app is a browser-based application that requires a browser with Web MIDI API support.

You can access the web app here: app.elektron.se/outbox8.



4.1 CREATING A DEVICE PROFILE

First you must let Outbox 8 know which device it's connected to. This step helps Outbox 8 get the right audio output info for your setup and create a profile for the device. The device profile stores your settings for the connected device and remembers them for future use. Outbox 8 can store up to 8 device profiles, plus one additional profile for when it's used with a computer.

1. Connect your device to the Outbox 8 using a compatible USB cable.
2. Turn on both your device and the Outbox 8.
3. Once they've fully powered up, the Outbox 8 will automatically save a device profile. The <STATUS LED> blinks first green for a couple of seconds and then turns white to indicate that a new device was connected to the Outbox 8 and a new device profile was created.
4. Disconnect the device from the Outbox 8.



- When you connect Outbox 8 to a computer, a specific computer device profile is set up and used automatically. The <STATUS LED> turns blue to indicate that Outbox 8 is connected to a USB host and is using the computer profile. In the web app, this profile is called Computer/Host.
- You can also reset a device to its default settings or remove it from the device list entirely. Click RESET DEVICE PROFILE to reset the selected device's settings to default.
- Click FORGET DEVICE PROFILE to remove the selected device profile from the list. This is useful if you have no empty device profile slots or no longer need that device in the list.

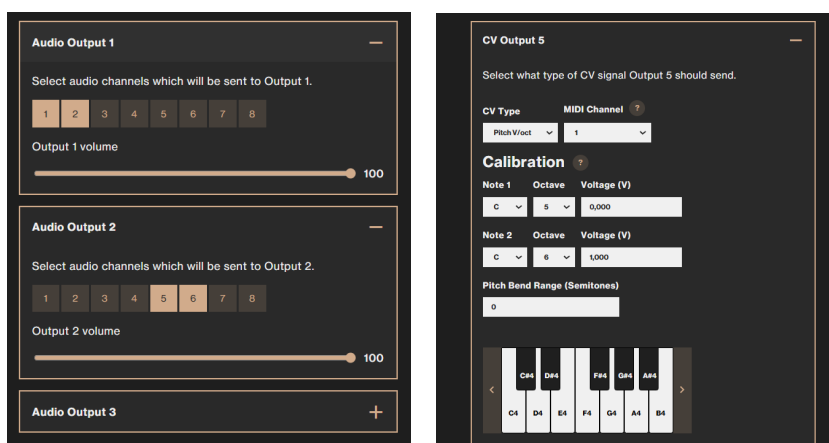
4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8

If your Elektron device doesn't support in-device configuration, use the Outbox 8 Web App to set everything up from your computer instead.

1. Connect Outbox 8 to your computer using a compatible USB cable and power on both devices.
2. On your computer open a Web MIDI compatible browser and go to app.elektron.se/outbox8 to access the web app.
3. In the web app, on the MIDI SETUP page select Outbox 8 for both the MIDI IN and MIDI OUT ports, then click CONNECT.
4. In the web app, click SELECT DEVICE PROFILE and choose the device profile you want to set up Outbox 8 for. Here you'll see all the devices you've already created profiles for.
5. Move the slider to the left or right to set the number of audio and CV outputs.
6. Click the "+" next to an audio output and then choose which of the device's internal audio channels should be sent to that output. Here you can also set the volume for the output. This can be useful if you're sending a lot of audio channels to that output and want to lower the level to avoid clipping.
7. Click the "+" next to a CV output, then adjust the configuration settings as needed. For more details about the CV output options, see "3.3.3 CV OUTPUT CONFIGURATION" on page 10.
8. Click SAVE TO OUTBOX 8 to save your configuration settings.
9. Connect Outbox 8 to the device whose device profile you edited and you're ready to go.



- The configuration settings in the web app are the same as those available in the Outbox 8 setup pages on supported Elektron devices. For more details on these settings, see "3.3 THE OUTBOX 8 MENU" on page 8.
- If you use the Web App to configure an Elektron device and want to know which device audio is available on which channel in the Outbox 8 setup, see "APPENDIX A: DEVICE AUDIO OUTPUTS" on page 21.
- These instructions assume you're using the web app on a computer, but it works just as well on a smartphone or tablet as long as the device's browser supports the Web MIDI API
- On the MIDI SETUP page, you can optionally select a PREVIEW CONTROLLER, which is a MIDI port you can use to send MIDI data to Outbox 8 during the configuration process. After connecting Outbox 8 to the web app, click MIDI SETUP to return to this page.



4.3 UPDATING THE OUTBOX 8 OS

Outbox 8 OS updates are done through the web app.

1. Connect Outbox 8 to your computer using a compatible USB cable and power on both devices.
2. On your computer open a browser (that supports Web MIDI API) and go to app.elektron.se/outbox8 to access the web app.
3. In the web app, select Outbox 8 for both the MIDI IN and MIDI OUT ports, then click CONNECT.
4. If a new OS is available for Outbox 8, a notification will appear at the top of the web app window.
5. Click UPDATE to start the OS update. The <STATUS LED> blinks yellow during the upgrade process and then turns blue to indicate that the upgrade process is done and that it is connected to a USB host.

5. OUTBOX 8 USE CASES

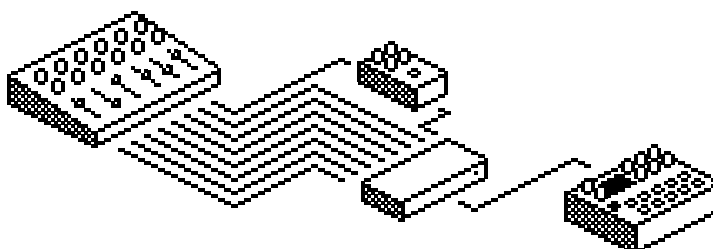
Elektron devices are already powerful on their own – but when paired with the Outbox 8, they become even more versatile. Whether you want to add extra analog outputs, integrate your modular system, expand routing options for your USB audio gear, or use it as a high-quality soundcard, the Outbox 8 opens up new creative possibilities for both studio and stage.

In this chapter, we'll explore several key use cases that show how the Outbox 8 can enhance your setup. You'll learn how to route individual tracks to external processors and mixers, sync and control modular gear, unlock additional outputs from USB audio devices, and even use the Outbox 8 as a MIDI-to-CV converter.

Each example is designed to help you make the most of your equipment, giving you greater flexibility, precision, and control over your sound. Whether you're performing live or producing in the studio, these setups will help you build a more integrated and efficient workflow.

The Elektron devices mentioned in these examples are just that – examples. You can use any supported Elektron device in a similar way. However, keep in mind that the Analog Heat MKI/MKII/+FX devices don't have a sequencer, which limits their ability to send MIDI data.

5.1 ADDING AUDIO OUTPUTS TO YOUR ELEKTRON DEVICE



If you're using a compatible Elektron device that supports in-device configuration like the Digitakt II, normally, you're limited to its built-in stereo outputs, which can restrict how you route sounds and tracks to your mixer and external effects. By connecting the Outbox 8, you get additional dedicated analog outputs. This means you can send individual tracks to external processors, route drums separately for mixing, submix several internal tracks to a single output, take one internal track and send it to several outputs – giving you far greater flexibility and control over your sound, both in the studio and on stage.

For this example, let's imagine you're performing live with your Digitakt II and want a bit more hands-on control and audio treatment using an external mixer. You're also using an outboard reverb pedal to add extra character to certain tracks.

WHAT WE WANT TO ACHIEVE

- Send the track that contains the kick to channel 1 of the mixer.
- The rest of the tracks containing drums are sent to channel 2.
- The bass tracks are sent to channel 3.
- The lead tracks are sent to channel 4.
- All the other Digitakt tracks are sent to channel 5.
- Duplicate the audio from the snare and clap tracks and send it to the reverb pedal.
- Finally, the wet FX signal from the reverb pedal is sent to channel 6.
This means the snare and clap tracks play their dry sound on channel 2, while their wet, effected sound comes through on channel 6.

HOW TO DO IT

1. Use a USB-B to USB-C cable to connect the Outbox 8 to the Digitakt II.
2. Use audio cables to connect the main outputs of your Digitakt II to the stereo input on channel 5 of your mixer. Then, connect the Outbox 8 outputs to the mixer (assuming the tracks on the mixer has stereo inputs) as follows:
 - Output 1–2 to Channel 1
 - Output 3–4 to Channel 2
 - Output 5–6 to Channel 4
 - Output 7 to Channel 3

In addition, connect Output 8 to the input of your reverb pedal set to 100% wet, and then connect the pedal's output to Channel 6 on the mixer.

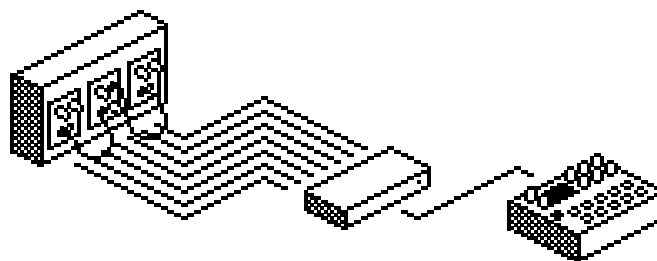
3. On the Digitakt II, go to **SETTINGS > OUTBOX 8**, and then press **[YES]**.
4. Select **ROUTING CONFIG**, and then press **[YES]**.
5. Make sure all outputs are configured as audio outputs. Configure outputs 1–2, 3–4, and 5–6 as stereo outputs. Use **DATA ENTRY** knob **H** to configure outputs 7 and 8 as mono outputs. Then press **[YES]** to confirm your settings and to exit the **ROUTING CONFIG** menu.
6. The next step is to decide which of the Digitakt II's 16 tracks should be sent to which outputs. In the **EDIT OUTBOX** menu, you'll see the Outbox 8 outputs you've set up. Select an output (or output pair) and press **[YES]** to open the **TRACK ROUTING** screen. For details on how to route tracks to an output, check out "3.3.2 AUDIO TRACK ROUTING" on page 9. Once you've routed the tracks for that output, press **[YES]** to confirm and close the **TRACK ROUTING** screen. Then repeat this process for all of the Outbox 8 outputs you are going to use. So, let's route the tracks like this:
 - Track 1 (kick) to Output 1–2
 - Tracks 2–6, 10 (additional drums and clap) to Output 3–4
 - Tracks 7–9 (leads) to Output 5–6
 - Tracks 11–12 (bass tracks summed to mono) to Output 7
 - Track 5 (snare) and 10 (clap) to Output 8
7. Lastly, we need to choose which tracks are sent to the Digitakt II's main outputs. In this example, we don't want any of the tracks that are already routed to the Outbox 8 outputs to also go through the Digitakt's main outputs. Go to **SETTINGS > AUDIO ROUTING > TO MAIN**, and then press **[YES]**. Here, deselect tracks 1–12 so that only tracks 13–16 are sent to the Digitakt's main outputs. Also, in **SETTINGS > AUDIO ROUTING > TO SEND FX**, make sure to disable the same tracks. This prevents the effected (wet) sound from those tracks from being sent to the main outputs as well.

Now you can – depending on your mixer's features – control things like level, pan, EQ, mixer FX, and compression for each track or group of tracks individually. Instead of having all of the Digitakt II's sound coming through a single channel, you now have much more flexibility and control to shape and mix your tracks exactly how you want.



- The number of tracks, effects, and inputs you can route depends on the connected Elektron device.
- If your Elektron device doesn't support in-device configuration, you can achieve the same thing using the web app instead. For more information, please see "4. THE OUTBOX 8 WEB APP" on page 13.

5.2 USING YOUR ELEKTRON DEVICE TO CONTROL A MODULAR SYSTEM



Let's say you're using an Elektron Syntakt and want to bring your modular system into your performance. By connecting the Outbox 8, your Elektron device can send MIDI data to it, and the Outbox 8 will convert that MIDI data into CV, Gate, Trig, and Clock signals – ready to control your modular directly. This lets you sequence modular voices from the Elektron sequencer, keep everything perfectly in sync, and you can even use your Elektron device as a modulation source for your modular. For more details on the CV configuration options, please see "3.3.3 CV OUTPUT CONFIGURATION" on page 10.

WHAT WE WANT TO ACHIEVE

In this example, we'll use the Elektron Syntakt to play notes on the modular system, start and stop the modular sequencer and control its tempo. It will also add modulation to different parts of the setup. This is what we want to happen when you start the Syntakt sequencer:

- The modular starts playing the notes you added on Syntakt's Track 1. Those notes generate the pitch CV and also the gate signals for the filter and amp envelopes..
- The modular sequencer begins running and keeps playing until you press **[STOP]** on the Syntakt. Its tempo is controlled by the clock CV, which follows the Syntakt sequencer's tempo.
- The filter frequency changes according to the lock trigs you placed on Syntakt's Track 2, and the oscillator's PWM responds to the modulation from Syntakt's LFO1 on Track 2.

HOW TO DO IT

1. Use a compatible USB cable to connect the Outbox 8 to the Syntakt.
2. Use compatible cables to connect the Outbox 8 outputs to the modular system as follows:
 - Output 1 to the V/Oct CV input for the oscillator.
 - Output 2 to a multiple in the modular that then sends the signals to the gate inputs of the modular's amp and filter envelopes.
 - Output 3 to the clock input for the sequencer
 - Output 4 to the sequencer start input
 - Output 5 to the sequencer stop input
 - Output 6 to the modular's filter's cutoff linear CV input
 - Output 7 to the PWM input for the oscillator
3. On the Syntakt go to **SETTINGS > OUTBOX 8**, and then press **[YES]**.
4. In the **OUTBOX 8** menu select **ROUTING CONFIG**, and then press **[YES]**.
5. In the **ROUTING CONFIG** menu, press **[LEFT]** until all Outbox 8's outputs are configured as CV outputs. Then press **[YES]** to confirm your settings. When the warning pop-up appears, double-check that your cables are connected to CV inputs (not audio inputs), then press **[YES]** again to exit the **ROUTING CONFIG** menu.
6. The next step is to set what type of CV signal each Outbox 8 output should send. In the **EDIT OUTBOX** menu, you'll see the Outbox 8 outputs you've configured. Select a CV output and press **[YES]** to open the **CV CONFIGURATION** menu for that output. For details on how to configure CV outputs, check out "3.3.3 CV OUTPUT CONFIGURATION" on page 10. Once you've configured the output, press **[YES]** to confirm and close the **CV CONFIGURATION** menu. Then repeat this process for all of the Outbox 8 outputs you are going to use. The outputs should be configured like this:
 - Output 1 - Type: Pitch V/Oct, MIDI channel: 1
 - Output 2 - Type: Gate, MIDI channel: 1, Polarity: V-Trig
 - Output 3 - Type: Clock
 - Output 4 - Type: Trig, MIDI channel: 1, Event: Start
 - Output 5 - Type: Trig, MIDI channel: 1, Event: Stop
 - Output 6 - Type: Value lin, MIDI channel: 2 MIDI type: CC, MIDI CC: 3
 - Output 7 - Type: Value lin, MIDI channel: 2 MIDI type: CC, MIDI CC: 9
7. With everything connected and set up the way we want, let's go to the Syntakt to set it up and program the sequencer so the modular does exactly what we're after.
 - On the Syntakt, navigate to **SETTINGS > MIDI CONFIG > SYNC** and make sure that **CLOCK SEND** and **TRANSPORT SEND** is enabled. In **SETTINGS > MIDI CONFIG > PORT CONFIG**, make sure that that **OUTPUT TO** is set to USB or MIDI+USB.
 - Select Track 1 on the Syntakt and load a MIDI machine. On the **SYN** page, activate the **CHAN** parameter and set the MIDI channel to 1. Next, add some note trigs on the sequencer and parameter lock the **NOTE** parameter to the notes you want the modular to play.
 - Select Track 2 on the Syntakt and load a MIDI machine. On the **SYN** page, activate the **CHAN** parameter and set the MIDI channel to 2. On the **FLTR** page 2, set the **SEL1**. parameter to CC#3. On the **FLTR** page 1, activate the **VAL1**. parameter. Then, add some lock trigs on the sequencer and parameter lock the **VAL1** parameter to control the filter cutoff on your modular system.
 - Still on Track 2, on the **FLTR** page 2, set the **SEL2**. parameter to CC#9. On the **FLTR** page 1, activate the **VAL2** parameter. Then, go to the **LFO** page 1 and set **DEST** to CC VAL2 as a destination for LFO1.

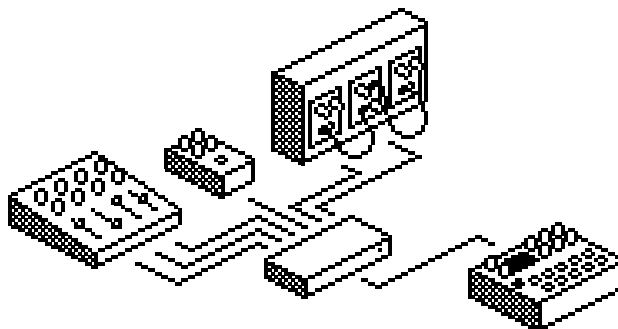


If your Elektron device doesn't support in-device configuration, you can achieve the same thing using the web app instead.



The LFO needs a note trig on its track to start running. You can either place a note trig on the sequencer and start playback, or manually press the track's trig key to trigger it. Once it's started, the LFO will keep running until you press [STOP] twice.

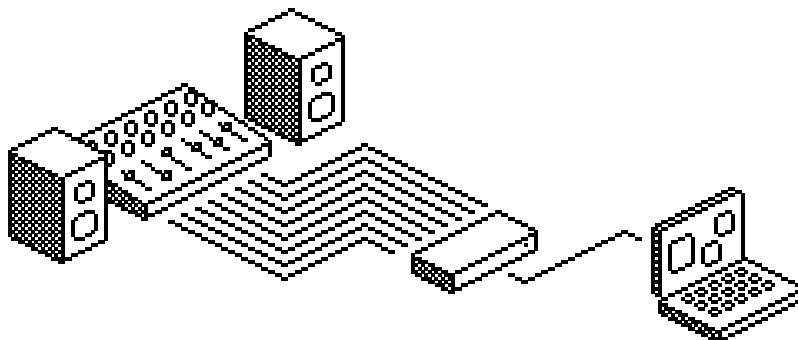
5.3 ADDING BOTH AUDIO AND CV OUTPUTS



You can, of course, combine both of the previous examples. You can use some of the Outbox 8's outputs as extra audio outputs and others as CV outputs. Since the Outbox 8 provides eight fully assignable outputs, and each one can be freely configured to send either analog audio or CV-related signals, giving you an exceptionally flexible bridge between your Elektron workflow and the rest of your setup.

Use some of the Outbox 8 outputs to route individual tracks, submixes, or duplicated signals out of your Elektron device for external processing, mixing, or multi-channel performance setups. At the same time, some outputs can be set to transmit CV, Gate, Trig, or Clock – allowing your Elektron device to control a modular system directly. Sequence modular voices with the Elektron sequencer, keep everything tightly synced, or use your Elektron device as a modulation source controlling your analog rig.

5.4 TOGETHER WITH A COMPUTER



When you connect the Outbox 8 to your computer, it becomes a high-quality USB audio interface, giving your system a set of dedicated analog outputs without the need for a bulky external soundcard. This makes it ideal for mobile producers, live performers, or anyone seeking a clean, simplified setup. You can route audio directly from your DAW to your mixer, monitors, or hardware processors using a single compact and reliable device.

At the same time, your DAW can send MIDI to the Outbox 8, allowing you to configure some (or all) of its eight outputs as CV, Gate, Trig, or Clock. This lets you control modular gear, analog synthesizers, or any CV-capable devices right from your computer-based workflow. Whether you're mixing, performing, or sequencing a hybrid studio, the Outbox 8 serves as a powerful bridge between software and hardware, unifying audio routing and CV control in one flexible box.

If you want to use Outbox 8 with a computer, you first need to connect it to a computer running the Outbox 8 web app to set things up. For more information please see “4.1 CREATING A DEVICE PROFILE” on page 13, and “4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8” on page 14.

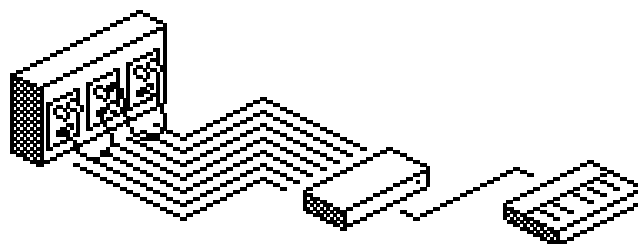


Here we're assuming that the Outbox 8 is used with a computer, but it works just as well with a smartphone or tablet – as long as it uses a browser that supports Web MIDI API.



Outbox 8 saves one device profile dedicated to computer/host use. This profile will be used regardless of which computer you connect it to. In the Web App, this profile is called Computer/Host

5.5 MIDI TO CV CONVERTER



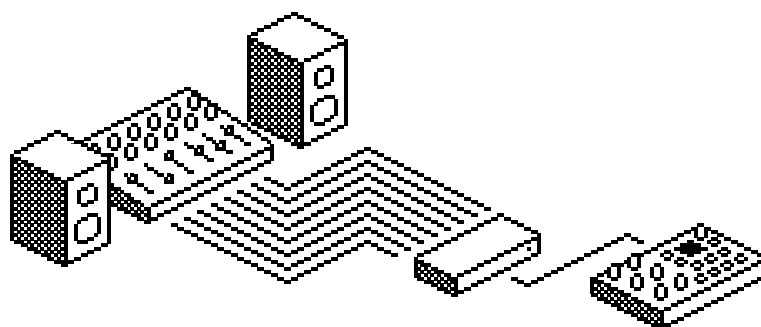
You can also plug a USB-equipped MIDI keyboard or controller directly into the Outbox 8 to start playing and controlling your modular rig or any CV/Gate-equipped synthesizer. The Outbox 8 receives MIDI from the keyboard and converts it into CV, Gate, Trig, or Clock signals, letting you perform expressive melodies, trigger sequences, or modulate parameters in real time. Just use the Output 8 web app to set everything up the way you want. For more information on how to use the app to set up the Outbox 8, please see “4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8” on page 14

This setup is perfect for musicians who want a hands-on, computer-free performance workflow. Just connect your USB keyboard, map the Outbox 8's outputs to control your oscillators, envelopes, or sequencers, and you've turned your modular system into a fully playable instrument with traditional keyboard control.



It's also worth mentioning that almost anything that can send MIDI can use Outbox 8 as a MIDI to CV converter. If your device doesn't have MIDI over USB, you can use a USB class-compliant audio/MIDI interface with DIN MIDI connectors to send MIDI to Outbox 8.

5.6 TOGETHER WITH A NON-ELEKTRON CLASS-COMPLIANT DEVICE



Outbox 8 also works with many non-Elektron, class-compliant devices that support multichannel USB audio. For instance, a compact groovebox, synth, or drum machine might only have a single stereo output. Connect it to the Outbox 8, which then acts as a USB host, and its multiple analog outputs become available. This makes it easy to route individual parts – like drums, bass, and melodies – to their own mixer channels or external effects. You could also use it to submix the internal tracks to one output, or a single track can be sent to multiple outputs, depending on what the setup calls for.

If you want to use Outbox 8 with a class-compliant device, you first need to create a device profile in the Outbox 8 and then connect it to a computer running the Outbox 8 web app to set things up. For more information please see “4.1 CREATING A DEVICE PROFILE” on page 13, and “4.2 USING THE WEB APP TO CONFIGURE THE OUTBOX 8” on page 14.



The number of audio channels you can choose from depends on the class-compliant device you're using.

6. TECHNICAL INFORMATION

ELECTRICAL SPECIFICATIONS

DC-coupled impedance-balanced audio/CV outputs

Output audio level: +13 dBu peak

Output CV range: +/- 5 V

Output impedance: 1 k Ω unbalanced

S/N ratio: 105.5 dB(A) re +13 dBu, 20 kHz BW

Power

Unit power consumption: 5 V / 0.3 A / 1.5 W typical, 5 V / 3 A / 15 W maximum when supplying power

Power output capability: 5 V / 0.1 A / 0.5 W minimum, 5 V / 0.9 A / 4 W using a 1.5 A power supply, 5 V / 1.7 A / 8 W using a 3.0 A power supply

HARDWARE

8 $\times$ 1/4" impedance-balanced DC-coupled audio/CV output jacks

48/44.1 kHz, 32-bit D/A converters

1 $\times$ USB Type-C power input port, accepting power sources of 5 V / 0.5 A / 2.5 W or higher

1 $\times$ USB 2.0 High-Speed Type-C data port, supporting USB Power Delivery, dual-role data, dual-role power

PHYSICAL SPECIFICATIONS

Sturdy aluminum casing

Dimensions: W176 $\times$ D90 $\times$ H28 mm (7,0" $\times$ 3,6" $\times$ 1,1") (including feet)

Weight: approximately 0.35 kg (0.75 lbs)

Maximum recommended ambient operating temperature: +40°C (+104°F)

7. CONTACT INFORMATION

ELEKTRON WEBSITE

<https://www.elektron.se>

OFFICE ADDRESS

Elektron Music Machines MAV AB

Banehagsliden 5

SE-414 51 Gothenburg

Sweden

APPENDIX A: DEVICE AUDIO OUTPUTS

These are the device audio outputs and their associated Outbox 8 channels, for the Elektron devices set up using the Web App.

A.1 ANALOG KEYS / FOUR MKI

Keys / Four audio output	Outbox 8 channel
MAIN L	1
MAIN R	2
SYNTH TRACK 1	3
SYNTH TRACK 2	4
SYNTH TRACK 3	5
SYNTH TRACK 4	6
EXTERNAL IN L	7
EXTERNAL IN R	8

A.2 ANALOG RYTM MKI

Analog Rytm audio output	Outbox 8 channel
MAIN L	1
MAIN R	2
BD TRACK 1	3
SD TRACK 2	4
RS/CP TRACK 3/4	5
BT TRACK 5	6
LT TRACK 6	7
MT/HT TRACK 7/8	8
CH/OH TRACK 9/10	9
CY/CB TRACK 11/12	10
EXTERNAL IN L (MKII)	11
EXTERNAL IN R (MKII)	12

A.3 ANALOG HEAT MKI/MKII/+FX CHANNELS

Analog Heat audio output	Outbox 8 channel
ANALOG IN L	1
ANALOG IN R	2
FX SEND L	3
FX SEND R	4

A.4 TONVERK CHANNELS

Tonverk audio output	Outbox 8 channel
MIX L-R	1-2
AUDIO TRACK 1 L-R	3-4
AUDIO TRACK 2 L-R	5-6
AUDIO TRACK 3 L-R	7-8
AUDIO TRACK 4 L-R	9-10

Tonverk audio output	Outbox 8 channel
AUDIO TRACK 5 L-R	11-12
AUDIO TRACK 6 L-R	13-14
AUDIO TRACK 7 L-R	15-16
AUDIO TRACK 8 L-R	17-18
BUS TRACK 1 L-R	19-20
BUS TRACK 2 L-R	21-22
BUS TRACK 3 L-R	23-24
BUS TRACK 4 L-R	25-26
SEND FX TRACK 1 L-R	27-28
SEND FX TRACK 2 L-R	29-30
SEND FX TRACK 3 L-R	31-32
IN A/B	33-34
CLICK/PREVIEW L-R	35-36

INDEX

A

AUDIO TRACK ROUTING 9

C

CLASS-COMPLIANT DEVICE 19

CLOCK 12

CONFIGURATION MENU 8

CONNECTORS 6, 7

CONTACT INFORMATION 20

CV CONFIGURATION 10

D

DEVICE AUDIO OUTPUTS 21

DEVICE PROFILE 13

F

FACTORY RESET 7

G

GATE 11

L

LED 6

LINEAR CV 11

M

MIXER PAGE 12

Accessing 12

O

OS UPDATE 14

P

PANEL LAYOUT 6

PITCH HZ/V 10

PITCH V/OCT 10

R

RECOVERY MODE 7

ROUTING

Configure 9

Track 9

ROUTING CONFIG MENU 9

S

SAFETY AND MAINTENANCE 3

SETTING UP 7

STATUS LED 6

SUPPORTED ELEKTRON DEVICES 8

T

TECHNICAL INFORMATION 20

TRIG 11

U

USE CASES 13, 15

Audio and CV outputs 18

Audio outputs 15

CV outputs 16

Together with class-compliant device 19

Together with computer 18

W

WEB APP 13

Configuring the Outbox 8 14

