DII·ONE **QUICK START** GUIDE

DII· ONE
is a USB MIDI controller with hardware MIDI connectivity and CV clock output.

PHYSICAL CONNECTIONS
USB-C Port → Computer (power + MIDI)
TRS MIDI Out → Hardware synth MIDI In (Type-A)
TRS MIDI In → Hardware synth MIDI Out (Type-A)
CV Clock Out → Modular clock input (analog clock pulses 0-5V)

INSTANT DAW SETUP (3 STEPS)
1. Plug USB cable into computer
→ Recognized as USB device (no drivers needed)
2. Open your DAW (Ableton, Logic, Cubase, etc.)
→ Enable device in MIDI settings
→ Input: Track ON, Sync **OFF**, Remote ON
→ Output: Track ON, Sync ON, Remote **OFF**
3. Press buttons / turn knobs on DII ONE while in your DAW´s midi learn mode

MIDI LEARN MODE (FASTEST MAPPING METHOD)
1. Press the **MIDI LEARN button** (LED blinks)
2. Move any **DII ONE button or knob** you want to assign a MIDI CC to → pushbutton LED blinks rapidly
3. Send MIDI message from DAW/synth **to DII ONE** (move parameter, press key)
4. As soon as **Midi CC data is received**
→ Button LED flashes rapidly → Mapping saved permanently!

Exit the mode at any time by pressing the MIDI LEARN button again.

CV CLOCK DIVISION
Hold MIDI LEARN button and push
Button 1: Cycle through divisions (unity → /2 → /3 → /4 → /5 → /6 → /8 → /12 → /16 →)
Button 2: Jump instantly back to unity (no division)

TROUBLESHOOTING
- Knobs jumpy or not reaching min/max? Increase Sensitivity & Dead Zone in configurator
- Can't connect configurator? Close DAW first (USB MIDI conflicts)
- CV clock not working? Enable MIDI Sync in DAW/synth output settings
- Midi Learn doesn´t work? Check if your synth sends Midi CC on knob/button movement

WEB CONFIGURATOR
In addition to MIDI Learn mode, the web configurator provides advanced customization options for the DII·ONE. It allows assignment of MIDI CC numbers, notes, and channels, selection of button modes (momentary or latching), adjustment of knob sensitivity, and configuration of MIDI Thru routing between USB and external hardware synthesizers. All settings are stored permanently in the controller's internal memory and remain active without a computer connected.

→ Download the web configurator from the support section on **www.st-modular.de**.

1. Open the downloaded HTML-file in Chrome, Edge, or Opera (other lack Web MIDI support) and, if applicable, allow it to change MIDI devices/settings (browser pop-up)
2. Select device from dropdown
3. Click "**Connect**"
4. Configure in tabs:
- Buttons Tab: Type (CC/Note), Mode (Momentary/Latching), Channel, Values
- Knobs Tab: CC number, Channel, Min/Max range, Sensitivity, Deadzone
- MIDI Thru mode, Clock settings, Filters

5. Click **"Upload to controller"**
→ LEDs flash during upload → DII·ONE restarts → configuration saved permanently
6. Optionally verify Midi data in the **MIDI Monitor** tab

MIDI Thru Modes:
- Off: No routing (default for DAW-only use)
- USB to TRS: Computer controls hardware synths
- TRS to USB: Hardware synths control computer (recording)
- Both: Bidirectional (risk of feedback loops! See below)

AVOIDING MIDI FEEDBACK LOOPS
MIDI messages travel in circle: Synth MIDI OUT to MIDI TRS IN → MIDI TRS OUT to same Synth MIDI IN and synth sends and receives MIDI data → Result: system hangs!

Therefore, please ensure to….
- avoid starting the synth's sequencer while MIDI Learn mode is active via TRS IN and OUT
- avoid enabling all MIDI input and output options simultaneously in your DAW (Track, Sync, Remote)
- use the midi filter "Filter Realtime Messages (Clock, Start, Stop)" in the configurator
- switch off the DII·ONE immediately and review your configuration, if MIDI freezes

If you have any questions, please visit the ST Modular Forum at www.st-modular.de!