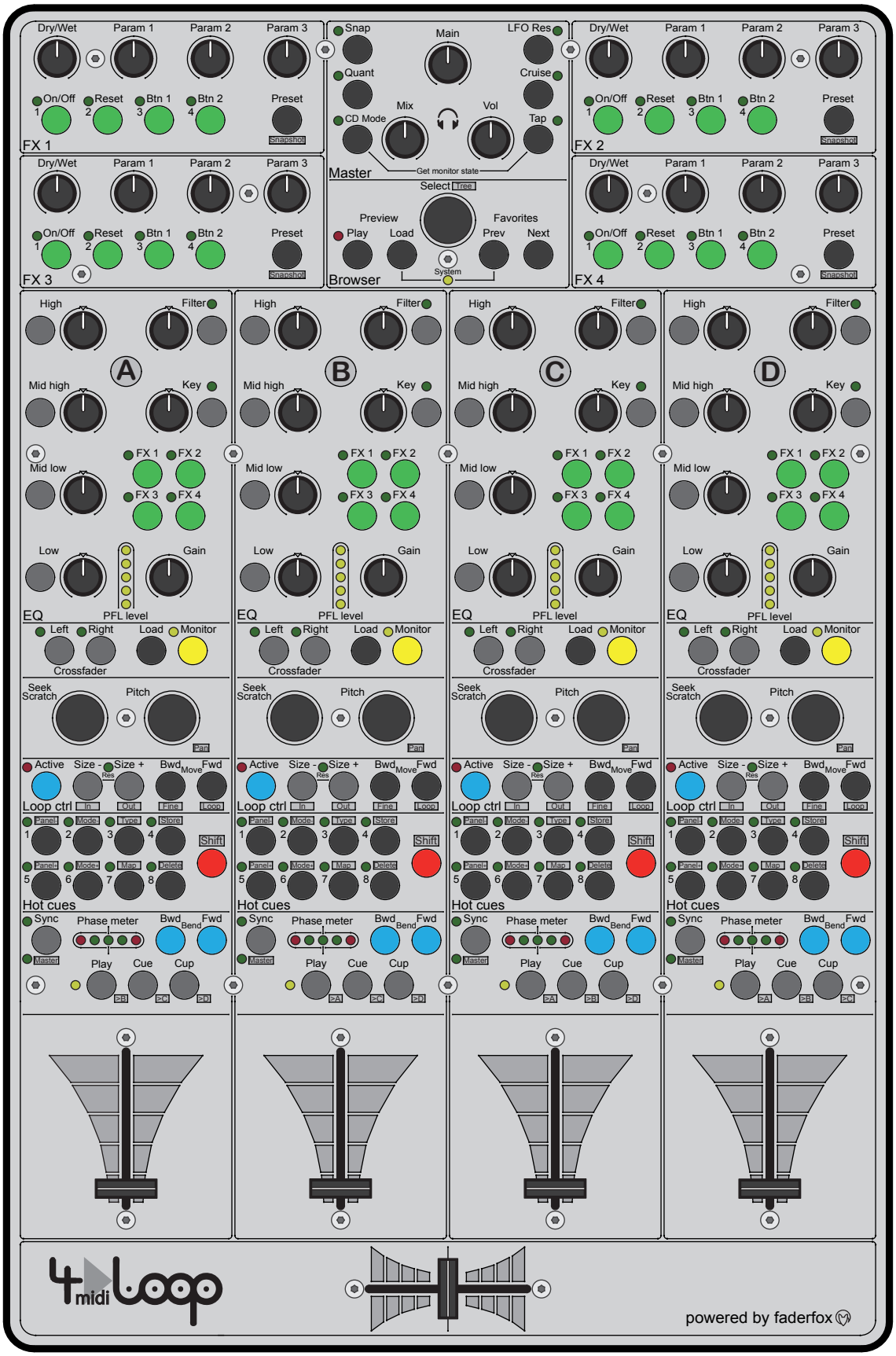
User manual


Dry/Wet
Param 1
Param 2
Param 3
On/Off
Reset
Btn 1
Btn 2
Preset
Snapshot
FX 1
FX 2
FX 3
FX 4
Snap
Quant
CD Mode
Main
Mix
Vol
LFO Res
Cruise
Tap
Get monitor state
Master
Select
Tree
Preview
Play
Load
Favorites
Prev
Next
System
Browser
High
Filter
Mid high
Key
Mid low
Low
Gain
EQ
PFL level
Left
Right
Load
Monitor
Crossfader
Seek
Scratch
Pitch
Pan
Active
Size -
Size +
Res
Bwd
Move
Fwd
Loop ctrl
In
Out
Fine
Loop
Panel
Mode
Type
Store
Shift
Map
Delete
Hot cues
Sync
Phase meter
Bend
Master
Play
Cue
Cup
A
B
C
D
midi Loop
powered by faderfox

Provision of guarantee and product liability

The seller warrants for faultless material and proper manufacture for a period of 24 months from the date of sale to the end user.
Excluded from the stated guarantee are defects on parts as the result of normal wear-and-tear. These parts are mostly faders (sliding guides), potentiometers, encoders, buttons and USB connection.
Also excluded from the guarantee are damages that are the result of :
incorrect or inappropriate handling, excessive force, mechanical or chemical influences, incorrectly connecting the instrument with other instruments, incorrect or inappropriate use.
The warranty is void if the instrument is opened or changed. In addition, there is no warranty for individual parts and components (in particular, semiconductors) and disposables/ consumables. The seller is not liable for consequential damages which are not the result of criminal intent or negligence on his part. The following conditions must be met in order to claim the warranty services:

- Instrument is either in its original packaging or similar packaging.
- Copy of the invoice with the serial number clearly visible.
- Meaningful error report or description of the error is attached.

The buyer assumes all costs and dangers of return shipments to the manufacturer

Safety precautions and servicing

- Instrument's intended use is based on the functions and procedures contained in this manual
- Read all instructions for use as well as all enclosed literature before using the instrument
- Use only in closed rooms (not for outdoor use)
- Never use in a moist or humid environment (laundry rooms, swimming pools, etc, …)
- Not for use in the vicinity of heat sources (radiators, ovens, etc, …)
- Operational temperature is in the range of 0° - + 40° C
- Not for use in the vicinity of flammable material
- The instrument should not be in direct or prolonged contact with sunlight
- Dusty environmental conditions should be avoided
- Connect only USB ports of computers or hubs
- No foreign objects are permitted inside the instrument casing
- No liquids should get inside the instrument casing
- Never let the instrument fall to the ground (casing and/or control elements may be damaged)

If the instrument must be opened (for example, to remove foreign objects from the casing or for other repairs), this may only be done by qualified personnel. Guarantee is void for defects that occur if the instrument was opened by an unauthorised or unqualified person. Use a soft towel or brush to clean the instrument. Please do not use any cleaning liquids or water, so you avoid any damages to the instrument.

Introduction

Thank you for buying the 4midiloop-controller. It is the first controller which allows an entire and simultaneous control over four decks and four effect-slots in Traktor Pro.

This ability is achieved by over 600 electronic components. Only166 keys and almost the same number of Leds allow simultaneous control over nearly all of the operations in Traktor Pro as well as indicating all the important visual feedback signals of the controller's software.
Each device has a control for every function, which makes operating a mix of four decks most enjoyable.

The Controller attracts, not only by ergonomics and functionality but also with its revolutionary stylish light-aluminium body.

4midiloop is great new hardware for ambitious DJ's, created to provide excitement and inspiration for many years to come.

Features

Hardware specifications

- **47 Potentiometer** FX, Master, EQ
- **9 Encoder** Browser, Seek / Scratch, Pitch
- **Rubber knobs** for best tactile feeling
- **152 Led's** different colors to display various informations
- **166 Push buttons** in different colors, double functions with shiftbutton
- **5 Fader** Eclectic Breaks - Pro X Fade Linefader, Crossfader
- **USB bus powering** Power supply via USB- Bus / consumption less than 300mA
- **USB interface** class compliant / no driver necessary

Software specifications

- **Special controller** for DJ Software (optimised for Native Instruments, Traktor Pro)
- **Setup Files** for Traktor Pro in current Version **1.2.4** or higher
- **Indication of each relevant state** by feedback data from software
- **System mode** for different basic settings (fader curves, etc.)

Dimensions

- **Dimensions** 11.41" **(**290 mm) x 2.36" (60 mm) x 17.7" (450 mm)
- **Weight** 3.6kg

System requirements

- **Windows** Windows® XP (SP3, 32 bit), Vista (SP1, 32 bit, 64 bit), Windows 7 (32 bit, 64 bit), Pentium IV or Athlon 1.4 GHz (SSE1), 1 GB RAM
- **Mac** Mac OS® X 10.5, Mac OS® X 10.6, Intel®Core™ Duo 1.66 GHz, 1 GB RAM
- **General** Monitor with 1024 x 768 screen resolution, USB 2.0

Case

- **CNC shaped case** Aluminium from Swiss aircraft industry (Avional)
- **Compact and ergonomic**
- **Eloxalprint** scratch proof layout, clearly designed

Setup Files

- **4midiloop Traktor.zip** all files are suitable for Windows or Mac

Getting started

- Connect the controller with the USB cable before you start the Traktor software.
- Blinking System Led indicates that the controller is not yet recognized by the computer.
- The controller is recognized by the computer as '4midiloop' or 'USB audio device'.
- Import the Setup File '4midiloopV01.tsi' by clicking the add- button in Traktors Preferences / Controller Manager and don't forget to activate the midi- in and midi- out ports for that device.
- Define your basic settings (fader curves, Led brightness etc.) in System Mode. You will find the description under Functions (Browser Sektion).
- Push Get Monitor State (Cd Mode and Tab button at the same time) to synchronize all Led's with the Traktor Software.
- **Note:** With the Windows operating system there may be audio dropouts (crackling) at high CPU utilization. Increasing the latency and / or switching the level and phase meters off, reduces audio dropouts. Native Instruments is aware of the problem and will fix it soon.

Functions

Shift functions

All double operations on the deck-sections can be accessed by pressing the red **Shift**-Buttons simultaneously in the respective decks.
To retrieve double functions in the FX-, or the Master- and Browser sections, any of the 4 **Shift** buttons may be used.

FX Section

The effects section of 4midiloop consists of four potentiometers and five buttons per deck. All parameters of four Traktor effect units may be simultaneously adjusted here.

Using the 'Chained' mode, three effects per slot can be controlled simultaneously. Pushing the FX buttons **2**, **3** or **4**, switches FX1, FX2 or FX3 on/off. The buttons 1 to 4 of the effects section are programmed to give direct access to four of your favorite effect presets. Hold **Preset** button to select presets by buttons **1** to **4 (**Led is blinking), turn the potentiometers **Param1**, **2** or **3** to select FX types. FX types will be stored in device by releasing Preset button.

In the 'Advanced' mode, a maximum of one effect can be activated per slot. Using the **Preset** button, your favourite effects can be chosen.
Hold **Preset** button to select presets by buttons **1** to **4 (**Led is lit), turn the potentiometers **Dry / Wet** to select FX types. FX types will be stored in device by releasing Preset button.
By using the **Shift** and **Preset** button, a **Snapshot** can be made, which saves the current effect settings as a default.

Master Section

The **Main** volume potentiometer controls the overall output level and the **Mix** potentiometer controls the headphone mix between the Master and the Monitor signal. You can adjust the Monitor Output level for your headphones by using the **Vol** potentiometer. The desired headphone signal can be activated with the **Monitor** button underneath the EQ section. Pushing the **Shift** and **Monitor** button at the same time, switches the advanced deck panel on or off.

Snap snaps into the closest beat of the Waveform display.

Quant enables the quantised change between both Hotcues and/or loops for real-time remixing. Additionally by pressing **Shift**, the **PFL Level** Led's can be switched on or off in PFL mode.

CD Mode plays a short stutter loop if the Deck is paused. This action simulates the cueing occurrence of a traditional DJ CD player. Additionally by pressing **Shift**, the **PFL Level** Led's can be switched on or off in AFL mode.

LFO Reset resets the LFO for all LFO based effects.

Cruise activates the automatic playback of an entire playlist (Autoplay).

Tab tapping rhythmically on this button manually sets the master clock tempo. Additionally by pressing **Shift**, midi clock sync can be switched on or off. The Tab Led is blinking, if the midi clock sync is switched on.

By pushing **CD Mode** and **Tab** at the same time, **Get monitor state** is activated and synchronises the 4midiloop Led's with the current status of the Traktor Software. By pushing CD Mode and Tab at the same time **(2 seconds)**, Get monitor state is activated and synchronises the Traktor Software with the current status of the 4midiloop potentiometers and faders.

Browser Section

A rotary button **(Select)** with a push function allows browsing through folder and playlists. Simply turn the push encoder to find the track you want and push to expand the browser window to fill the screen. Additionally, by activating the **Shift** button, the folder list can be scrolled (**Tree**: track collection, playlists, itunes etc.), which can be opened and closed by pushing the browser rotary button. The chosen track can be uploaded to the deck by using the **Load** button underneath the EQ section. By pushing the **Shift** and **Load** button at the same time, the deck size can be changed.

A track can be uploaded from the browser list to the preview player with Preview **Load**. By pressing the Preview **Play** button, the chosen tracks can be stopped or started again (if pushed once more). Additionally by pressing **Shift**, the track moves backwards. If **Shift** and Preview **Load** are pushed at the same time, the track moves forwards. Favorites provide direct access to Playlists or folders. Favourite tracks can be selected via **Prev** or **Next** and uploaded to the browser.

If Preview **Load** and Favorites **Prev** are pushed at the same time (2 seconds), **System Mode** is activated and the System Led is lit. In System Mode, you can manage following four basic settings:

Pushing button **1** in the **FX1** section, defines the midi channels 1 to 4.
Button **2** in the FX1 section defines the midi channels 5 to 8.
Button **3** in the FX1 section defines the midi channels 9 to 12.
Button **4** in the FX1 section defines the midi channels 13 to 16.

Pushing button **1** in the **FX2** section, defines „linear" line fader curves.
Button **2** in the FX2 section defines „rapid" line fader curves.
Button **3** in the FX2 section defines „switch" line fader curves.

Pushing button **1** in the **FX3** section, defines the Led brightness 1 (dark).
Button **2** in the FX3 section defines the Led brightness 2.
Button **3** in the FX3 section defines the Led brightness 3.
Button **4** in the FX3 section defines the Led brightness 4 (bright).

Pushing button **1** in the **FX4** section, defines „linear“ cross fader curve.
Button **2** in the FX4 section defines „rapid“ cross fader curve.
Button **3** in the FX4 section defines „switch“ cross fader curve.

Push the Preview **Load** and Favorites **Prev** buttons for about 2 seconds to leave the **System Mode**. The System Led is off. **Get Monitor state** must be activated again.

Blinking **System Led** indicates, that the 4midiloop controller is not yet recognized by the computer.

EQ Section

In the Xone-setting, the equalizer is a 4-band-EQ and can adjust the frequency content of the track being played. Pressing the buttons next to the knobs switches the corresponding frequencies on or off (Kill-function). The **PFL Level** Led's display the pre-fader level of the deck's signal in PFL mode (Pre Fader Level). In AFL mode (After Fader Mode) the Led's display the after-fader level of the deck's signal. The deck level can be adjusted with the **Gain** knob.

If the effect assign buttons **FX1, 2, 3 or 4** are pressed, the corresponding deck to control slot 1,2,3 or 4 will be allocated.

The **Filter** potentiometer provides control over the bipolar channel filter. The filter can be activated by pushing the button next to the knob. The centre position remains neutral. By turning the filter knob left, it results in a low-pass filter and to the right, a high-pass filter.

The **Key Lock** potentiometer controls the track's musical key. Turning it to the right, raises the key, turning it to the left, lowers the key. The Key Lock can be activated by pressing the button next to the knob.

Crossfader Section

The Deck assign buttons assigns the desired decks **left** or **right** to the **crossfader**. The led for the assigned deck flashes. You define which decks are audible on the left and right position of the crossfader. A deck that is not assigned to one side of the crossfaderis only controlled by the channel fader.

If **Shift** and Crossfader **Left** are pushed at the same time, the waveform display in the deck window decreases. If additionally the Left Led flashes, the waveform display decreases the minimum. If **Shift** and Crossfader **Right** are pushed at the same time, the waveform display increases. If additionally the left Led flashes, the waveform display increases the maximum.

Seek / Scratch and Pitch Section

The **Seek / Scratch** encoders are used for coils in the decks. The track will be forwarded to the end by turning the encoders clockwise, for rewinding back to the start, anti-clockwise. Push and turn the encoder at the same time, scratches in the decks.

The **Pitch** encoders slow down or speed up the tempo of the track. The Pitch encoders offer the same functionality as a pitch fader on any standard DJ turntable or pitchable CD player. To adjust the tempo faster in steps, turn the encoder clockwise. To adjust the tempo slower, turn the encoder anticlockwise. Push and turn the Pitch encoder at the same time, changes the tempo in small steps.

Additionally by pressing **Shift**, the **Pan** knob is controlled. With the Pan knob you can control the balance between the left and right stereo channels for each deck individually.

Loop ctrl Section

To activate / deactivate a loop push the **Active** button. The Led indicates activation or deactivation of a loop. Press the **Size +/-** Button to obtain higher or lower value of the loop length. Press the **Size +** and **Size –** button at the same time, it will reset the loop lenght to one loop. The **Res** Led is lit.

Push the Shift and Active button, the loop is only active when the track runs in a loop.

The active loop with the chosen length of the track is moved back by pressing **Move Bwd. Move Fwd** on the contrary, moves the active loop forward.

Loop or Fine can be activated by pressing the Shift button in the loop mode. If **Loop** is activated, the loop will be moved a full Loop length. If **Fine** is activated, the loop can be moved in small displacements.

Push the Shift and Size- button (**In**) to set the start point of the loop. Push the Shift and Size+ button (**Out**) to set the end point of the loop. The track will begin to loop between these two points and the Active Led flashes. To stop looping, press the Active button.

Hotcue Section

The hotcue section has eight **Hotcue** buttons numbered from **1 to 8**. In Traktor, you can assign any stored Cue Point or Loop to one of the 8 Hotcue buttons. This allows for instant access to your most important Cue Points and Loops. Using stored Cue Points, you can mark specific positions in your tracks; e.g. beginning vocals, instrumentals or breaks. Storing a Cue Point instantly maps it to the next available Hotcue.

Further functions can be regulated by pressing the **Shift** button and the eight hotcue buttons:

With **Panel +/-** you can switch on the Move, Cue or Grid panel.
With **Mode +/-** you can switch in Move panel on BeatJump, Loop, Loop in or Loop out.
With **Store** you can store cue points, and with **Delete** you can delete it.
If you want to change the assignment; push the assigned Hotcue button, then push the **Map** and then on the new Hotcue button.
With **Type** you'll define the cue point type (Cue, Fade in, Fade Out, Load, Grid or Loop).

Transport Section

Push the **Play** button to start or stop playback. The Led indicates activation or deactivation of Play, at track end warning the Play Led is blinking.

The **Cue** button has multiple functions depending on the playback state of the track. On a paused deck, pushing Cue sets a new current cue Point at the current play position. In Snap mode this cue point will snap to the beat nearest the play position. Pushing Cue during playback jumps the current play position back to the previously set current cue point and stops playback.

The **Cup** button behaves similarly to Cue, but stops playback as long as it is held down. On a paused deck, pressing Cup sets a current cue point and starts playback when upon releasing the button. Clicking Cup during playback jumps the current play position back to the current cue point and pauses playback. Release the button to resume playback.

Push the Shift and **>A,B,C,D** button to load a running track in to another deck where it will run synchronously.

Push the **Sync** button, to automatically match the tempo and the phase of the playing track to:

the master deck or the master clock, if no deck is selected as master deck. The Sync button can be left permanently on. However, sometimes a deck cannot be synced at the moment, then the Sync button on the screen will be appear half-lit.

The Master Deck gives the target tempo to which other decks can sync. In Auto mode Traktor will automatically select the Master Deck depending on which track has the longest uninterrupted playtime. In Manual mode the master deck can be selected by pessing the **Master** button on the desired deck.

The **Phase meter** is a visual reference for syncing tracks. It shows you if a track is in or out of sync with the Master Deck or the Master Clock. If two tracks' Phases are synced, the meter will stay in the middle. If one track's phase is shifted backward, a green or red led will appear left of the center marker. If a track's phase is shifted forward, a green or red led will appear right of the center marker.

The **Pitch Bend** buttons are used if two tracks are playing at the same tempo, but their phase is slightly shifted. This is similar to nudging a record to slow down or speed up as the tracks go slightly out of sync. Press the **Bwd** button to slightly slow down the track and the **Fwd** button to speed it up. By pushing the **Shift** and Pitch Bend **Bwd** button at the same time, the Phase Meter is switched off. Pushing the **Shift** and Pitch Bend **Fwd** button, the Phase Meter is switched on.

Fader Section

The **Channel Faders** adjust the channel volume. The **Crossfader** enables transitions between decks by dragging it from one side to the other. For the line faders and cross fader, there are three different curves (Linear, Rapid, Switch) available which can be set in the **system mode**.

Extensions

All the controls in Traktor Pro may be assigned to new functions, which are accessed in the Preferences/Controller-Manager.
Particulars are given in the Traktor Pro manual.

Since many shift functions of the controller remain unassigned, the following extensions are suggested:

- EQ- potentiometers
- FX- potentiometers
- Potentiometers in the Master-section
- Green buttons in FX- and EQ- sections
- Grey buttons in EQ- sections

As long as Leds are allocated to buttons, they may be controlled by the same Midi- commands as those for the buttons.
For information about the numbers of the particular Midi- commands, first check the included list of the corresponding functions.