INSTRUŌ | SPECIALIST SYNTHESIZERS

Lúbadh
Dual Looper

Overview

PLAYHEAD SPEED

STALLED

HALF SPEED
(OCTAVE DOWN)

HALF SPEED
(OCTAVE DOWN)

ORIGINAL
SPEED

ORIGINAL
SPEED

2 × SPEED
(OCTAVE UP)

2 × SPEED
(OCTAVE UP)

4 × SPEED
(REVERSED)

4 × SPEED

LINKED PLAYHEADS

LINK

LINK ALLOWS YOU TO SLAVE THE
RIGHT DECK TO THE LEFT CONTROLS

INPUT & INPUT GAIN

OUTPUT & OUTPUT LEVEL

RECORD / PLAY/ OVERDUB

NORMALISED SIGNAL PATH

ALLOWS EASY
BOUNCING OF
AUDIO BETWEEN
LEFT AND RIGHT
PLAYHEADS

LED'S
LIGHT ON TO INDICATE STALLED, HALF, ORIGINAL AND
2 × PLAYBACK SPEEDS (FORWARD AND REVERSE)

RETRIG/SHIFT

RETRIG/SHIFT

LINK

SPEED

IN

LENGTH

AUX OUT

TIME

START

RETRIG

TIME

AUX

OUT

CV

CV

Out

REC

REC

ERASE

ERASE

Lubadh
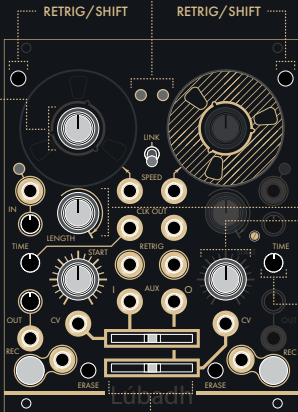
CAPACITIVE TOUCH PLATE
USED TO CREATE WARBLE EFFECTS
OR STALL THE PLAYHEAD

CAPACITIVE TOUCH PLATE
SENSITIVITY TRIMMER

SELECT LOOP LENGTH

UP TO 6.5 MIN RECORD LENGTH

SELECT LOOP START POINT

UP TO 6.5 MIN RECORD LENGTH

CLOCK DIVISIONS

2   3   1   2   3   4

1 - 64 DIVISIONS

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 32, 64

CV OR MANUAL CONTROL

**AUX INPUT AND
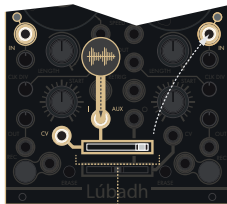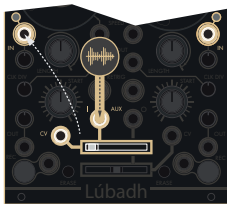OUTPUT SECTION**

**HOLD DOWN ERASE AND RECORD BUTTON
FOR 'PUNCH IN RECORD'
(DESTRUCTIVELY REPLACES AUDIO)**

TAPE DECAY TIME
(IN DECAY MODE)

DELAY TIME
(IN DELAY MODE)

Auxiliary Input & Output Crossfaders
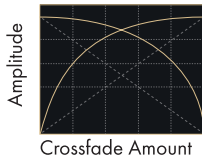
Auxiliary Audio Input

In addition to the left and right input/output sections, the Lúbadh also has auxiliary input and output crossfaders which allow additional audio to be sent to the input sections or monitored from the outputs. Voltage control allows for modulation up to audio rate.

Crossfader Curve

Amplitude

Crossfade Amount

Auxiliary Audio Output

Monitoring Options

There are three options for input monitoring; **Monitoring On**, **Armed Monitoring** and **Monitoring Off.** You can toggle through these options by holding down buttons 1 and 2, then pressing button 3 for the left deck, this action is mirrored for the opposite deck.

Monitoring On - Record Button Solid White

Armed Monitoring - Record Button Pulsing White

Monitoring Off - Record Button Off

Monitoring On - When monitoring is on the throughput audio is always present at the output and summed with any recorded loops. **(DEFAULT)**.

Armed Monitoring - When armed monitoring is selected throughput audio is muted by default, pressing the record button 'arms' the deck and throughput audio is toggled on, pressing record again records a loop, pressing record to finish the recording disables throughput audio and only the recorded audio is heard. When armed the erase button will disarm the deck without erasing the loop.

Monitoring Off - When monitoring is off only the recorded material appears at the output.

Time Functions

There are three seperate functions for the **Time** knob; **Clock Divisions**, **Tape Decay Time** and **Delay Time**. You can toggle through these functions by holding down button 1 and pressing button 2 for the left deck, this action is mirrored for the opposite deck.
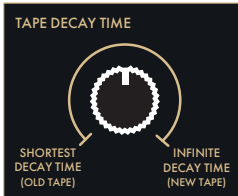
Note: CLK triggers indicated in white.

The current time function is indicated by the Amber LED next to the 'CLK OUT' jack.
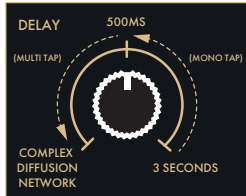
Amber LED Off
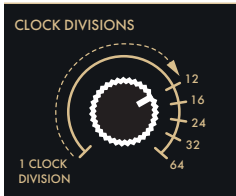
Time knob sets the number of clock divisions per loop. These are displayed by the white 'CLK OUT' LED.

Amber LED Pulsing

Sets how long recordings take to wear out when being recorded over. Akin to tape ageing.

Amber LED Solid Lit

Delay mode uses analogue feedback, which is dependent upon monitoring of the normalised signal path.

Looping or One-Shot Modes

Toggle between looping/one-shot modes by holding button 1 and pressing button 2 for the left deck, this action is mirrored for the opposite deck.

Looping or One-Shot Record

In one shot-record, recording starts from current playback position, records one full loop (set by start position and length) and stops recording automatically. (Looping by DEFAULT).

Note: Idle record button is lit mixed amber/white when monitoring is on, pulsing mixed when armed monitoring is on and remains off when monitoring is off.

Looping or One-Shot Playback

When looping is disabled (i.e. one-shot mode) playback stops after each loop. Retrigger will prompt the recording to play once. (Looping by DEFAULT)

Note: The record button will blink white when loop playback is selected and blink mixed when one-shot playback is selected.

Save and Load

Save

To save a recording onto the Lúbadh hold down buttons 1 and 2, press button 3, this action is mirrored for the opposite deck.

Note: Recordings and settings are also autosaved between power cycles.

Load

To load a saved audio recording hold down button 1 and press button 2, this action is mirrored for the opposite deck

Note: Any audio content and settings autosaved from previous session will be automatically loaded when powered on.

Capacitive Touch & Pre/Post Switches

Capacitive Touch Switch

The switch on the lower side of the rear pcb toggles the capacitive touch on /off.
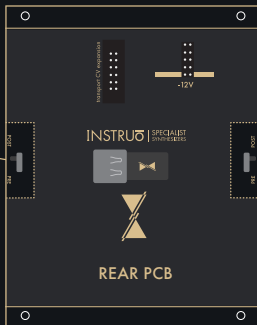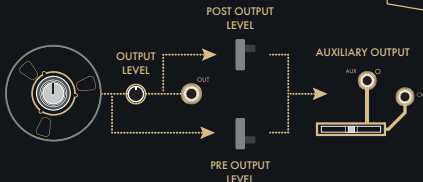

OFF   ON
Capacitive Touch Switch

*See Overview Graphic

Pre/Post Output Level

Pre/Post switches on the rear of the pcb are used to toggle the output fader to being either pre or post output level.

POST

PRE

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REAR PCB

OUTPUT LEVEL

OUT

POST OUTPUT LEVEL

PRE OUTPUT LEVEL
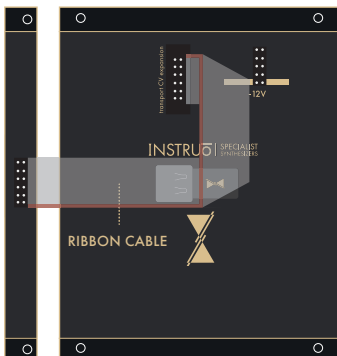
AUXILIARY OUTPUT

AUX   CV

CV Expander

Included with the Lúbadh is a CV expander, which is connected to the module via a ribbon cable. The expander allows for additional CV control over all remaining parameters.

Note: All CV inputs are bipolar (5V range).

Front

Back

Cheat Sheet ▬▬▬

Functions	Button Combinations	Display
Monitoring On Armed Monitoring Monitoring Off	Both Shifts & Record	**On** - REC LED Solid White **Armed** - REC LED Pulse White **Off** - REC LED Off
Clock Divisions Decay Time Delay Time	Shift & Record	**CLK Divisions** - CLK LED Off **Decay** - CLK LED Pulse Amber **Delay** - CLK LED Solid Amber
Looping Record One-Shot Record	Shift & Opposite Record	**Looping** - Unchanged **One-Shot** - REC LED Mixed
Looping Playback One-shot Playback	Shift & Opposite Erase	**Looping** - REC LED Blinks White **One-Shot** - REC LED Blinks Mixed
Punch In Record	Erase & Record	REC LED Lights Amber
Record CV Jack (Trigger / Gate)	Both Shifts & Erase	**Trigger** - REC LED Blinks White **Gate** - REC LED Blinks Mixed
Save	Shift, Erase & Record	Deck LED Animation
Load	Shift & Erase	Deck LED Animation