Track view

Sequence editing basics

- change the colour of a track: shift + turn ▼ ▲
- brightness of LEDs: shift & learn + turn ▼ ▲

Synth & kit presets

- cvcles through synth or kit presets: turn select knob
- create a new, blank synth or kit preset: shift + synth or shift + kit

Kit tracks

- turn a track into a kit track: kit button
- "longer" note: adding a "note" + press one of the 16 main pads on its row
- <u>mute line:</u> pad-row's mute pad (2nd from right; green, turn yellow when muted)
- colour of an individual row: shift + audition + turn ▼ ▲
- re-ordered the sounds / rows: audition + down ▼ ▲ + turn

Sound parameters

- select a sound audition pad
- select a sound muted: shift button + audition pad
- changing parameters: 8 functions & gold knobs
- - Res: Toggles 24dB & 12dB
 - Delay time: ping-pong ON / OFF
 - Delay amount: analog simulation ON / OFF
 - Sidechain: sidechain speed
 - Reverb: presets -small / medium / large"
 - **Mod rate:** chorus / flanger / phaser ("affect entire" only)
 - Mod depth: depth / feedback / offset ("affect entire" only)
 - **Stutter:** ON / OFF (+ turn > stutter speed)

Scrolling & zooming

- vertical scrolling: turn ▼ ▲
- zoom level display: press down ◀▶
- **zoom in**: hold *down* **◄►** + *turn* clockwise
- **zoom out**: hold *down* **◄▶** + *turn* anti-clockwise
- horizontal scrolling: turn ◀▶

Editing track

- track length: shift + turn ◀▶
- multiply existing track: shift + press down ◀▶
- shift all notes & automation: hold down ▼ ▲ + turn ◀▶

Scales

- exit scale mode entirely: scale
- change to a different scale: shift + scale

- change the root note: scale + audition pad
- sharpen or flatten a note: shift + audition pad + select & turn
- transpose a track up or down: hold down ▼ ▲ & turn
- transpose a track by semitone: shift + hold down ▼ ▲ & turn

Notes of different length

- **longer note:** note's pad + press further pad right
- shorten a note, delete portion: press pads | longer note + continues back: note's pad + press down ◀▶ + press further pad left
- **never ending note:** create note on entire track's length

Editing note velocity

manual velocity: note's pad + turn ◀▶

Note probability and iteration dependence

- Percentage: note's pad + turn select anticlockwise
- **Iteration**: note's pad + turn select clockwise

Triplets view

Triplets view: triplets view

Recording notes

- record & playback: record
- metronome: shift + tap tempo

Copying and pasting notes

- copy zoom level notes: learn + press down ◀▶
- paste notes: learn + shift +press down ◀▶

Parameter automation & recording

- record & playback automation: record
- overwrite automation: turn parameter knob again
- step by step automation: note's pad & turn parameter knob
- <u>delete automation for a parameter:</u> shift + press down parameter knob
- <u>delete MIDI automation for a parameter:</u> record mode + shift + turn knob on MIDI controller

Copying and pasting parameter automation

- copy zoom level automation: learn + press down parameter knob
- **copy zoom level automation**: **learn + shift +** press *down* parameter **knob**

Undo / redo

- undo: back
- redo: shift + back

Clear track

• clear track: hold down ◀▶ + back

Cross-screen edit mode

• cross-screen: cross-screen

MIDI & CV tracks

- MIDI or CV track: MIDI or CV button in track view
- MIDI channel: turn select knob

MIDI CC control & sequencing

• select CC number: hold down parameter knob + turn select

Song view

- enter song view: song
- create a new track: any of the 16 main pads on a free row
- enter track view: any of its 16 main pads

Stopping & launching tracks via arming

- mute line: pad-row's launch pad (2nd from right; green, turn yellow when muted)
- increase loop before launch: turn select
- cancell launch: press down select

Soloing tracks

- soloing a track: hold down ◀▶ + launch pad (several eventually)
- immediate solo: hold down ◀▶ + shift + launch pad (several eventually)
- un-solo: launch pad

Deleting, cloning & re-ordering tracks

- delete track: any 16 main pads + save / delete
- move track up or down: any 16 main pads + turn ▼ ▲
- clone track: any 16 main pads + press pad on a different row

Parameter knobs in **Song View**

- change track's parameters: any 16 main pads & turn parameter knob
- <u>affect entire song:</u> affect entire

Song sections

- change a track's section: hold down shift + press section pad repeatedly
- arm a section for launch: press + release section pad on any of the tracks that have that section

- number of repeats + next: section pad for half a second & turn select
 turn select
- cancel switching: press down select
- <u>"share" option:</u> section pad + turn select far-anticlockwise

Keyboard view

- entering keyboard view: keyboard icon
- change the root note: scale + audition pad

Saving & loading songs

- entering song mode: save once
- exiting save mode: back
- **select slot:** turn **select** (already used = full-stop displayed after their number)
- save song: save again
- entering load mode: load once
- exiting load mode: back
- select song: turn select
- skip sub-slots: shift + turn select
- load song: load again
- delete a song:
 - enter load song
 - select slot number
 - shift + save
 - save again (or back to cancel)
- new empty song: shift + load, load again (or back to cancel)

Switching song during playback

- switch songs while playing: load a song
- specifying launch-time:
 - select the song
 - o hold down load
 - "DONE" when load is completed
 - o release to arm
- increase loop before launch: turn select
- maintain tempo of previous song: tempo + load

The file browser & loading samples

- navigate: turn select
- <u>load sample:</u> press down select
- enter folder: press down select
- parent folder: back (or exit browser if at root level)

Adding samples to an existing kit

• load sample into existing kit: audition pad + load

Loading a sample for use as a melodic "synth" instrument

- o make new synth
- o any of the audition pads + load
- o select a sample

Slicer (basic)

- kit with evenly-sized slices of 1 sample:
 - create a blank kit
 - browse to the sample
 - o shift + down select knob
 - o "SLIC" will blink
 - o select the number of slices
 - o press down select

Recording samples

- <u>record sample in a new kit:</u> record at browser stage
- stop recording: record again
- record sample into existing kit: audition pad + record

Resampling / recording the Deluge's output

- recording instantly: shift + record
- recording at the same instant than playback: record + play
- recording at the same instant than a voice: record + press a pad
- stop recording: record again
- stop at the exact instant that a loop finishes: record + play (again)

The sound editor

- Edit sound's parameter:
 - o access by shortcuts: shift + shortcut pad
 - o access by nested menu: press down select knob

Sound editor nested menu parameters

- OSC1 (oscillator 1) called CAR1 (carrier 1) for FM synths
 - o **VOLU**me
 - TRANspose in semitones (with cent adjustment)
 - TYPE the wave type; basic wave types (SINE, SAW, SQUAre, or TRlangle), or SAMPle, or IN (& INL, INR, or INLR)
 - PULSe width for square waves only
 - **FEED**back for *FM* synths only
 - RETRigger phase (in degrees) that the oscillator will be reset to on note-on.

If TYPE is set to SAMPle:

- FILE file browser, select the audio file
- REC sound recorder, to record a new sample
- **REVE**rse reverses the sample
- MODE can be set to:

- ONCE sample plays once, whole way through
- CUT sample plays once, may be cut short at the end of the "note"
- REPEat the sample loops until the "note" ends
- STREtch the sample is time-stretched to the length of the note
- STARt time of sample, in seconds, with millisecond adjustment
- END time of sample
- PITI (pitch & time) -
 - LINKed (changing pitch affects length) or
 - INDEpendent (changing pitch does not affect length)
- SPEEd time-stretches a sample without changing pitch
- OSC2 (oscillator 2) called CAR2 (carrier 2) for FM synths. Same as OSC1, plus...
 - SYNC (oscillator sync) if switched ON, oscillator 2 resets (to its retrigger phase) whenever oscillator 1 does
- MOD1 (modulator 1) only available for FM synths
 - TRANspose in semitones (with cent adjustment)
 - AMOUnt extent to which this modulator modulates the frequency of both carriers
 - FEEDback
 - RETRigger phase same as for OSC1
- MOD2 (modulator 2) only available for FM synths. Same as MOD1, plus...
 - DESTination frequency to CARS (both carriers), or MOD1 (modulator 1)
- NOISe amount for subtractive synths only
- TRANspose the overall transpose for this synth, in semitones
- VIBRato the depth of modulation between LFO1 & pitch
- **LPF** for *subtractive* synths only
 - FREQuency the cutoff frequency
 - RESOnance
 - o MODE toggles the LPF's slope between 12dB per octave & 24dB per octave
- HPF for subtractive synths only
 - FREQuency the cutoff frequency
 - RESOnance
- MODE mode of the synth SUBTractive, RING modulation, or FM. (Ring modulation mode still technically is subtractive)
- ENV1 (envelope 1) this envelope controls volume / amplitude, & may be patched to anything else too
 - **ATTAck**
 - o **DECA**y
 - o SUSTain
 - RELEase
- ENV2 (envelope 2) this envelope may be patched to anything. Same as ENV1
- LFO1 this exists for all voices together & does not retrigger
 - TYPE wave type; SINE, SAW, SQUAre, or TRlangle
 - RATE
 - o SYNC sets a time interval (or OFF) to sync the LFO to
- LFO2 exists separately for each voice, & retriggers upon a note-on. Same as LFO1, minus SYNC.
- VOICe
 - POLYphony POLYphonic, MONOphonic, AUTO (monophonic but won't stop you playing chords),
 & LEGAto. Also has a CHOKe setting any sound set to CHOKe will stop all other CHOKe sounds within its kit when it starts
 - o UNISon
 - **NUM** number of voices to play in unison
 - DETUne how detuned these voices are to be from each other
 - PORTamento
 - ARPEggiator
 - MODE OFF, UP, DOWN, BOTH, or RANDom
 - **SYNC** time interval (or OFF) to sync the arpeggiator to
 - OCTAves
 - GATE % of the available time-division which each arpeggiated note fills
 - RATE
 - PRIOrity LOW, MED or HIGH (if the Deluge's CPU becomes overloaded)
- FX
- DISTortion

- MODUlation fx
 - TYPE FLANger, CHORus, PHASer, or OFF
 - RATE
 - FEEDback (flanger & phaser)
 - DEPTh (chorus & phaser)
 - OFFSet (chorus)
- o EQ
- BASS
- TREBle
- BFRQ bass frequency
- TFRQ treble frequency
- o **DELA**y
 - AMOUnt effect level & feedback
 - RATE
 - PINGpong stereo effect, ON or OFF
 - TYPE DIGItal or ANAlog
 - SYNC time interval (or OFF) to sync the delay rate to
- REVErb all reverb settings (except AMOUnt) apply to the whole song
 - AMOUnt
 - SIZE the "room size"
 - DAMPening
 - WIDTh stereo-ness
 - PAN allows you to pan the reverb, e.g. to output to one channel only
 - SIDEchain compressor eparate sidechain compressor. "AUTO" or OFF
- **DECI**mation (sample rate reduction)
- CRUS (bitcrushing)
- SIDEchain compressor
 - o VOLUme how much the sidechain compressor affects this sound's volume
 - o SYNC time interval (or OFF) to sync sidechain compressor's attack & release
 - o ATTAck
 - RELEase
 - SHAPe more or less punchy
 - SEND for sounds that are part of a <u>kit</u>. Level at which this sound shall trigger all other sounds' sidechain compressors
- VOLUme
- PAN

Decimal values

move "cursor" left / right to edit a different digit: turn ◀▶

Patching

- to set up patching for a parameter:
 - o display the value via its **shift + button shortcut**, or the <u>nested menu</u>.
 - o shift + shortcut pad on the right-most column to edit the depth of the relationship

OR

- o display the value via its **shift +** shortcut **pad**, or the <u>nested menu</u>.
- o press down select knob (a new, deeper menu is entered)
- press down select knob again to select the modulation source.

modulation sources are:

- LF01
- LFO2
- ENV1 (envelope 1)
- ENV2 (envelope 2)
- SIDEchain sidechain compressor can be patched to anything
- VELOcity note velocity, which you can edit in track view
- AFTErtouch MIDI aftertouch messages

- **NOTE** the actual note being played (i.e. how high or low the note is)
- RANDom a random number
- set the depth of the patched modulation by turn select (can go negative)

Patching to control the depth of another patch "cable"

to modulate depth with another modulation source: same as above

Assigning knobs to parameters

- <u>reassign parameter knob to other parameter:</u> display parameter's value > **learn +** *turn* one of the parameter **knobs**
- <u>assign connected MIDI knob</u>: display parameter's value > <u>learn + turn</u> the <u>MIDI harware knob</u> (relative & absolute MIDI CC messages are supported)
- unassign MIDI knob from a parameter: display parameter's value > shift + learn button
- unassign Deluge's own parameter knobs: assign them to something else

Saving sound presets

• save sound as a preset: press save (in sound editor) > choose slot + save

Sound editor for MIDI & CV tracks

- BANK sent as a MIDI bank select message (CC 0)
- SUB sent as a MIDI sub-bank (sometimes known as bank LSB) message (CC 32)
- PGM sent as a MIDI PGM change message
- ARPEggiator (same as others)

Time stretching & pitch shifting

- shorter / longer without affecting pitch: "SPEED" parameter = "INDEpendent"
- <u>adjusting pitch without affecting speed</u>: "SPEED" parameter = "INDEpendent"
- sample time-stretched in-sync with tempo. "MODE" parameter = "STREtch"
- pitch & time linked: "PITI" parameter = "LINKed"

Live audio input

• audio input as a sound source: shift + synth > "TYPE" OSC 1 = IN or INL

Tempo & syncing

Setting tempo

- tempo change: turn tempo
- display the current BPM: press down tempo
- change by 1BPM increments: hold down tempo + turn
- tempo tap: tap tap tempo button

Swing

• adjusts the amount of swing: shift + turn tempo knob

Syncing

• "nudge" sync forward / backward: hold down ◀▶ knob + turn tempo knob

Tempo magnitude matching

- manually halved or doubled Deluge's BPM (if slave): hold down learn + turn tempo
- manually halved or doubled slave's BPM (if master): hold down learn + turn tempo

Sync-scaling

• enable / disable sync-scaling: enter track view > press sync-scaling

Controlling functions via MIDI

- assigning external control:
 - learn + button or pad that you wish to assign MIDI control to
 - while holding these two buttons / pads, press button or key on your MIDI controller
- unassign MIDI control from button or pad: press it + learn
- setting up a MIDI keyboard: learn + hold any audition pad > press a key on the MIDI keyboard

Settings menu

- enter settings menu: shift + down select
 - CV
- OUT1 & OUT2
 - VOLTs per octave
 - TRANspose pitch adjustment in semitones, with cent adjustment
- GATE
 - OUT1 to OUT4 gate output (VTRIg or STRIg). 3 & 4 additional option of RUN & CLOCk respectively
 - OFFTime minimum amount of time, that a gate output will switch off between consecutive notes.
- TCLO (trigger clock)
 - > INput
 - PPQN pulses per quarter-note
 - AUTO-start trigger clock signal start & stop playback automatically
 - OUTput
 - PPQN pulses per quarter-note
- MIDI
 - o CLOCk
 - OUT (MIDI beat clock output) ON or OFF
 - MAGN (tempo magnitude matching) ON or OFF
 - THRU MIDI thru, ON or OFF
 - CMD global MIDI commands
 - PLAY / stop playback
 - RESTart playback, if already playing
 - RECord
 - TAP tempo
- SWINg interval
- QUANtization interval, OFF or "ZOOM"
- CURSor FAST (short & sharp blinks), SLOW (solid white squares), or OFF
- MONItoring monitoring mode for recording samples: ON, OFF, or SMARt
- FIRMware firmware's version number

<u>KITS</u>

0	TR-808
1	DDD-1
2	SDS-5
3	TR-909
4	R-50
5	R-100
6	LD
7	HR-16B
8	SCDT
9	RX-5
10	XV-5080
11	KR-55
12	HR-II
13	AT Rhythm
14	CR-78

V1.4 functions