The Elfin
MONOSYNTH

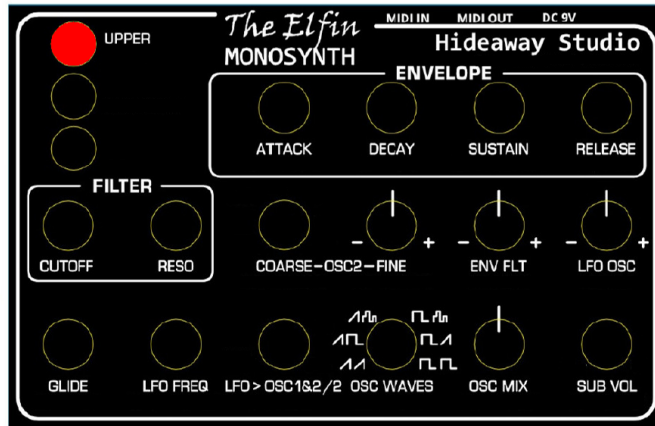# A GUIDE TO THE FRONT PANEL CONTROLS...

Hideaway Studio

BUILT IN FACTORY SOUND PATCHES:

SENDING MIDI PROGRAM CHANGE 01 THRU 17 ON MIDI CHANNEL 01 WILL SELECT
EACH OF THE BUILT IN FACTORY SOUND PATCHES.

PRESS THE RED
UPPER BUTTON TO
ACCESS THE UPPER
CONTROL LABELS

FILTER CUTOFF
& RESONANCE
CONTROLS

PORTAMENTO
GLIDE RATE

UPPER

The Elfin
MONOSYNTH   MIDI IN   MIDI OUT   DC 9V   Hideaway Studio

ENVELOPE

ATTACK   DECAY   SUSTAIN   RELEASE

FILTER

CUTOFF   RESO   COARSE-OSC2-FINE   ENV FLT   LFO OSC

GLIDE   LFO FREQ   LFO>OSC1&2/2   OSC WAVES   OSC MIX   SUB VOL

MAIN ENVELOPE CONTROLS
NB: RELEASE CONTROL ENABLES
DECAY AS THE RELEASE RATE

COARSE: SETS THE NUMBER OF
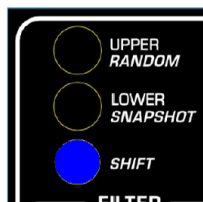SEMITONES OSC2 IS ABOVE OR
BELOW THE PITCH OF OSC1

FINE: FINE TUNES THE PITCH
OF OSC2 ABOVE OR BELOW THE
PITCH OF OSC1

ENV FLT: SETS THE AMOUNT
THE ENVELOPE MODULATES THE
FILTER CUTOFF

LFO OSC: SETS THE AMOUNT
THE LFO MODULATES THE
OSCILLATORS

LFO
SPEED

SETS WHETHER
OSC1 & 2 ARE
MODULATED BY
LFO

OSC 1 & 2
WAVEFORM
SELECTION

MIX LEVEL
BETWEEN
OSC1 & OSC2

SETS LEVEL
OF SUB
OSCILLATOR

CREATING A NEW PATCH:
HOLDING DOWN
THE BOTTOM BLUE
BUTTON WHILST
PRESSING THE MIDDLE
BUTTON FOR THE FIRST TIME
FOLLOWING POWER UP WILL
INITIALSE THE PATCH TO A
BASIC SAWTOOTH.

SAVING A PATCH:
HOLDING DOWN
THE BOTTOM BLUE
BUTTON WHILST
PRESSING THE MIDDLE
BUTTON WILL SEND
A SNAPSHOT OF ALL
CONTROL POSITIONS
VIA MIDI OUT TO ALLOW
SOUND PATCHES TO BE
SAVED AND PLAYED BACK
OVER MIDI SYSEX.

UPPER RANDOM
LOWER SNAPSHOT
SHIFT
FILTER

ENABLES THE
ENVELOPE
TO PITCH
MODULATION

SETS WHETHER
THE ENVELOPE
MODULATES THE
VOLUME OR JUST
GATES ON-OFF

SETS AMOUNT
THE ENVELOPE
MODULATES THE
LFO FREQUENCY

ENABLES
PORTAMENTO
LEGATO MODE

UPPER RANDOM
LOWER SNAPSHOT
SHIFT
FILTER

HOLDING DOWN
THE BOTTOM BLUE
BUTTON WHILST
PRESSING THE TOP
BUTTON WILL
GENERATE A
RANDOM PATCH
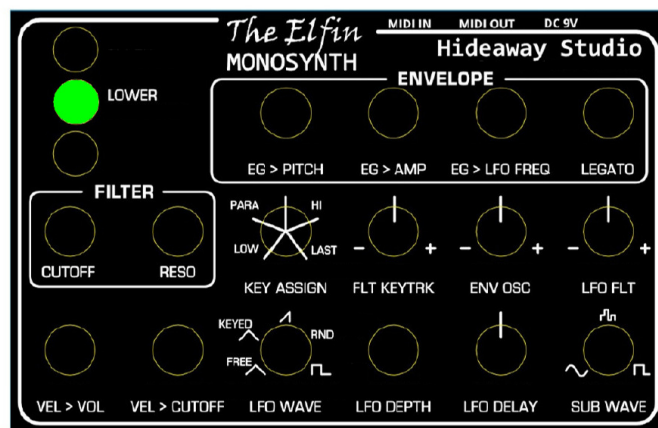
PRESS THE GREEN
UPPER BUTTON TO
ACCESS THE LOWER
CONTROL LABELS

FILTER CUTOFF
& RESONANCE
CONTROLS ALSO
AVAILABLE IN
LOWER/GREEN MODE

SETS THE AMOUNT
VELOCITY AFFECTS
THE VOLUME

LOWER

The Elfin
MONOSYNTH   MIDI IN   MIDI OUT   DC 9V   Hideaway Studio

ENVELOPE

EG > PITCH   EG > AMP   EG > LFO FREQ   LEGATO

FILTER

CUTOFF   RESO

PARA   HI
LOW   LAST
KEY ASSIGN   FLT KEYTRK   ENV OSC   LFO FLT

KEYED   RND
FREE
VEL > VOL   VEL > CUTOFF   LFO WAVE   LFO DEPTH   LFO DELAY   SUB WAVE

KEY ASSIGN MODES:
· LOW = LOW NOTE PRIORITY
· PARA = 2-OSC PARAPHONIC/DUO
· HI = HIGH NOTE PRIORITY
· LAST = LAST NOTE PRIORITY

FLT KEYTRK: FILTER KEY-TRACKING
· NO KEY-TRACKING
· HALF KEY-TRACKING
· FULL KEY-TRACKING

ENV OSC: SETS THE AMOUNT
THE ENVELOPE MODULATES THE
OSCILLATORS

LFO FLT: SETS THE AMOUNT
THE LFO MODULATES THE
FILTER CUTOFF

SETS THE
AMOUNT
VELOCITY
AFFECTS
FILTER
CUTOFF

SELECTS
LFO
WAVEFORM
KEYED MODE
RESETS
PHASE ON
KEY-ON

SETS
DEPTH
OF LFO

SETS TIME
FOR LFO
TO BUILD

SELECTS
SUB-OSC
WAVEFORM

DW 01/25

The Elfin-01 MONOSYNTH MIDI Implementation Chart

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   [Monophonic Synthesizer]                                      Date: 2024-12-03
   Model: Elfin-01 MONOSYNTH   MIDI Implementation Chart   Synth F/W:v0.B1 Panel F/W:v0.9
+-----------------------------+----------------+----------------+--------------------+
| Function...                 | Transmitted    | Recognized     | Remarks            |
+-----------------------------+----------------+----------------+--------------------+
| Basic       Default         | x              | 1              |                    |
| Channel     Changed         | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| Mode        Default         | x              | 3              |                    |
|             Messages        | x              | x              |                    |
|             Altered         | ************   |                |                    |
+-----------------------------+----------------+----------------+--------------------+
| Note                        | x              | 0-127          |                    |
| Number      : True Voice    | ************   | 0-120          |                    |
+-----------------------------+----------------+----------------+--------------------+
| Velocity    Note ON         | x              | o (V=1-127)    |                    |
|             Note OFF        | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| After       Key's           | x              | x              |                    |
| Touch       Ch's            | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| Pitch Bend                  | x              | o              |                    |
+-----------------------------+----------------+----------------+--------------------+
| Control                 1   | x              | o              | MODULATION DEPTH   |
| Change                 11   | x              | x              | EXPRESSION         |
|                             |                |                |                    |
|                        24   | o              | o              | OSC1/2 (SAW/SQ)    |
|                        25   | o              | o              | OSC MIX (1/2)      |
|                        20   | o              | o              | OSC2 COARSE (-/+)  |
|                        21   | o              | o              | OSC2 FINE (-/+)    |
|                             |                |                |                    |
|                        29   | o              | o              | SUB (SIN/NOISE/SQ) |
|                        26   | o              | o              | SUB LEVEL          |
|                       104   | o              | o              | EG > PITCH (-/+)   |
|                       105   | o              | o              | EG > P. TGT (1&2/2)|
|                             |                |                |                    |
|                        16   | o              | o              | CUTOFF             |
|                        17   | o              | o              | RESONANCE          |
|                        18   | o              | o              | EG > CUTOFF (-/+)  |
|                        31   | o              | o              | AMP EG (OFF/ON)    |
|                             |                |                |                    |
|                        23   | o              | o              | ATTACK             |
|                        19   | o              | o              | DECAY              |
|                        27   | o              | o              | SUSTAIN            |
|                        28   | o              | o              | RELEASE (OFF/ON)   |
|                             |                |                |                    |
|                        14   | o              | o              | LFO (T/2/SA/RND/SQ)|
|                        80   | o              | o              | LFO RATE           |
|                        82   | o              | o              | LFO > PITCH (-/+)  |
|                        83   | o              | o              | LFO > CUTOFF (-/+) |
|                             |                |                |                    |
|                        81   | o              | o              | LFO DEPTH          |
|                         3   | o              | o              | EG > LFO RATE (-/+)|
|                         9   | o              | o              | LFO > P. TGT (1&2/2)|
|                        15   | o              | o              | LFO FADE TIME      |
|                             |                |                |                    |
|                        85   | x              | o              | P. BEND RANGE      |
|                        86   | o              | o              | PITCH > CUTOFF     |
|                       106   | o              | o              | VEL > CUTOFF (-/+) |
|                       107   | o              | o              | VEL > AMP LEVEL    |
|                             |                |                |                    |
|                        22   | o              | o              | PORTAMENTO         |
|                        30   | o              | o              | LEGATO (OFF/ON)    |
|                        87   | o              | o              | K. ASN (L/L/P/H/LST)|
|                        89   | x              | x              | (RESERVED)    |    |
|                             |                |                |                    |
|                       108   | x              | o              | OSC LEVEL          |
|                       109   | x              | o              | RESONANCE LIMIT    |
|                       110   | x              | o              | AMP LEVEL          |
|                       111   | x              | o              | DAMP AND ATTACK    |
|                             |                |                |                    |
|              90, 112-119    | x              | x              | (RESERVED)         |
+-----------------------------+----------------+----------------+--------------------+
| Program                     | x              | o              |                    |
| Change      : True #        | ************   | 0-16, 127      | 127: Random Patch  |
+-----------------------------+----------------+----------------+--------------------+
| System Exclusive            | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| System      : Song Pos      | x              | x              |                    |
| Common      : Song Sel      | x              | x              |                    |
|             : Tune          | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| System      : Clock         | x              | x              |                    |
| Real Time   : Commands      | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| Aux         : Local ON/OFF  | x              | x              |                    |
| Messages    : All Notes OFF | x              | o 123-127      |                    |
|             : Active Sense  | x              | x              |                    |
|             : Reset         | x              | x              |                    |
+-----------------------------+----------------+----------------+--------------------+
| Notes                       |                |                |                    |
|                             |                |                |                    |
+-----------------------------+----------------+----------------+--------------------+
   Mode 1: Omni On,  Poly       Mode 2: Omni On,  Mono        o: Yes
   Mode 3: Omni Off, Poly       Mode 4: Omni Off, Mono        x: No
```