J74 Venus6

(Overview User interface)

TOP SECTION (VIEW SELECTOR, GENERIC CONTROLS)

VOICE / SYNTHESIZER (1-6)

VOICE / SEQUENCER (1-6)

PRESETS

MIXER

LFO's

GLOBAL CONTROLS

BOTTOM SECTION (VOICE MODES & CLOCK)
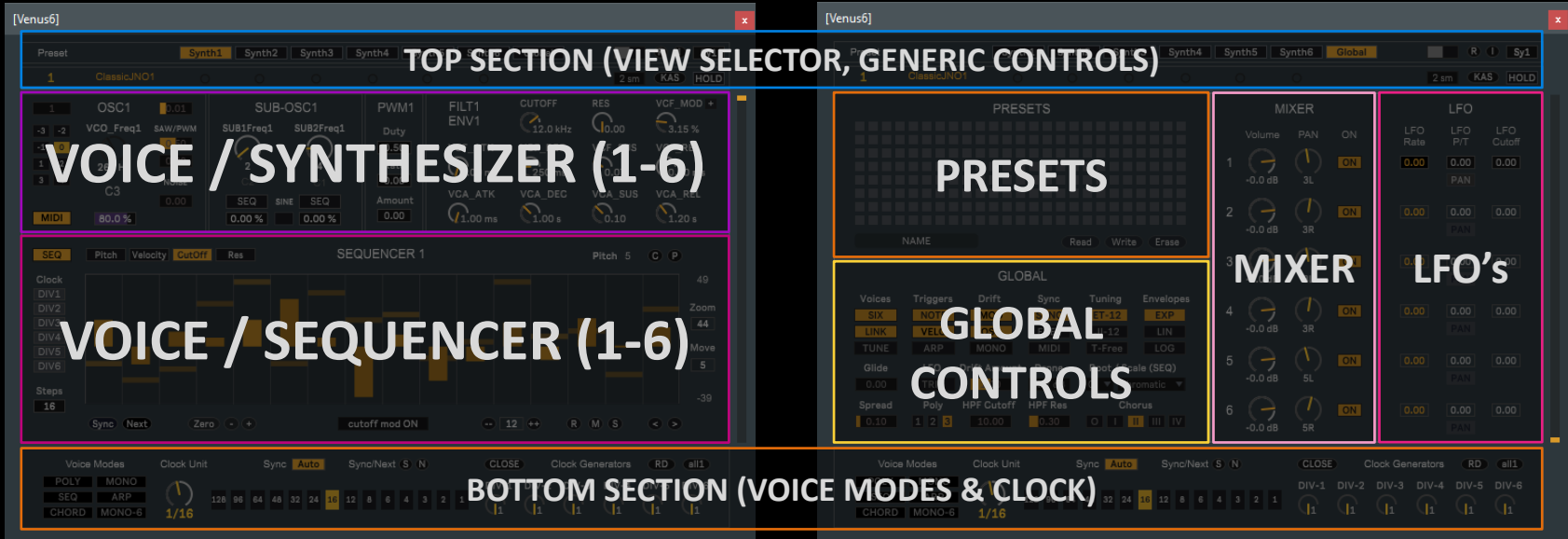
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(Synthesizers & Sequencers)

[**Sub1Feq**] Set the sub-harmonic ratio of Sub-OSC1
[**Sub2Feq**] Set the sub-harmonic ratio of Sub-OSC2
[**SEQ-Sub1**]: Define if pitch information from the sequencer is sent to the the Sub1Freq ratio or not
[**SEQ-Sub2**]: Define if pitch information from the sequencer is sent to the the Sub2Freq ratio or not
[**Sub1 Level**]: Set the level of Sub1
[**Sub2 Level**]: Set the level of Sub2
[**Sine Level**]: Set the Sine-sub level (tuned as Sub1)

[**PWM Duty**] Set the PWM Duty time
[**PWM Rate**] Set the Rate of the internal PWM LFO (Hz)
[**PWM Amount**] Amount of LFO modulation to the Duty time

[**Output Level**] The slider sets the overall output level (after the mixer)
[**R**] Randomize the synthesizer(s) oscillator, filter, LFO and envelope settings
[**I**] Initialize the synthesizer(s) oscillator, filter, LFO and envelope settings
[**SyX**] Midi-mappable Page Selector
[**Bend Range**] Bend range in semitones (up and down)
[**KAS**] "Kill All Sound" (e.g. swapping presets with envelops still open)
[**HOLD**] Hold MIDI input after note off (for ARP / arpeggiator use)

[Page **Selector**]: Select the element shown (either Synth 1 to 6 or the Global Settings page)

[**Preset**]: Changes the preset number and name

[**Stack Voices**] If in monosynth mode, stack voices
[**Detune Voices**] If in monosynth mode, detune voices
[**Transpose**]: Input MIDI octave up/down
[**SEQ**]: Define if pitch information from the sequencer is sent to the oscillator or not
[**MIDI**]: Define if the oscillator follows MIDI input or not. If enabled MIDI transposes the sequencer pitch.
[**VCO Freq**]: Set the frequency of the oscillator (if MIDI is disabled for this oscillator).
[**VCO Level**]: Set the main oscillator level
[**SAW Level**]: Set the SAW component level
[**PWM Level**]: Set the PWM component level
[**Noise Level**]: Set the Noise component level

[**Voice Trigger**] which voice (1 to 6) has been triggered

[**Cutoff**]: Cutoff value for the filter
[**Resonance**]: Resonance value for the filter
[**VCF Mod**]: Amount of cutoff modulation (VCF ENV)
[**VCF Atk**]: Attack time for the VCF ENV
[**VCF Dec**]: Decay time for the VCF ENV
[**VCF Sus**]: Sustain level for the VCF ENV
[**VCF Rel**]: Release time for the VCF ENV
[**VCA Atk**]: Attack time for the VCA ENV
[**VCA Dec**]: Decay time for the VCA ENV
[**VCA Sus**]: Sustain level for the VCA ENV
[**VCA Rel**]: Release time for the VCA ENV
[**VCF Mod Sign**] Sign of the VCF modulation

[**SEQ View**] Define which sequence view is selected. In *Pitch* view note values are shown on a piano roll. You can click to program a step. Double clicking mutes a step (velocity set to zero). In *Velocity* view you define the velocity for each step. In *Cutoff* and *Res* views you define the modulation (bipolar) for Cutoff and Resonance of the filter. You need to enable it with cutoff/res mod ON/off selector.
[**Clock DivX**] If a DivX toggle is enabled clocking from clock X is sent to the sequencer. More dividers/clocks can be enabled at the same time.
[**Steps**] Define the step number (1-64). In combination with clock divisions, this allows both polymetric and polyrhythmic sequencing.
[**Sync**] Align the first step to the bar tempo start
[**Next**] Shift playback of one step (forward)
[**Zero**] Reset the sequence to zero values
[**+/-**] Increase/decrease values in the view of one unit

[**Macro Configuration**] Macro selectors for setting combinations, such as Polysynth, Monosynth, Sequencer (independent synths), Arpeggiator or Chord triggering (multi voice). This is a macro which configures multiple parameters.

[**Pitch**]: Shows the step pitch value (mouseover)
[**C/P**] Copy&Paste for sequencers (all layers). The operation works between sequencers as well.
[**Zoom/Move**] Zoom in the view and Move up/down
[**--/++**] Increase/decrease values of a number of units defined by the Shift Vertical Range
[**Shift Vertical Range**] Amount for [--/++] operations
[**R**] Randomize the values (within the range)
[**M**] Mix-up the sequence (random order, same values)
[**S**] Sort the sequence (ordering of the same values)
[**</>**] Shift Left/Right (of one step)

[**Clock Unit**] the clock unit (time interval for step triggering). In Sync Mode = SYNC expressed in note lengths, in Sync Mode = Free in ms of time.
[**Sync Auto**] Enable auto sync if the clock unit or any clock division has been changed, re-aligning the sequencers. If disabled changes are applied free of sync.
[**Sync All (S)**] Re-align manually all sequencers to the tempo
[**Next All (S)**] Shift the clock of all sequencers one step forward
[**Clock Unit Jump**] Macro fo setting the clock unit to a value
[**Notes**] is a macro which defines how many notes will be repeated.
[**Octaves**] is a macro which defines over how many octaves to repeat.
[**ARPType**] is a macro for the type of arpeggio.
[**A**] Apply the arp on the sequencer based on [Notes] & [Octaves]
[**I**] Restores the default number of steps (16),

[**Clock Division 1**] clock divider 1. Sends a clock pulse at a division of the time (e.g. a setting of 4 means "1 out of 4")
[**Clock Division 2**] clock divider 2.
[**Clock Division 3**] clock divider 3.
[**Clock Division 4**] clock divider 4.
[**Clock Division 5**] clock divider 5.
[**Clock Division 6**] clock divider 6.
[**RD**] Randomize all clock dividers
[**all1**] Set all clock dividers to 1 ("1 out of 1")
[**Close**] Close all DIVx gates, on all sequences

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(Global Settings)

[**MOD Drift**]: Define independent drifting is applied to the envelopes of the voices or not.
[**OSC Drift**]: Define independent drifting is applied to the oscillators or not.
[**MONO**] plays monophonically and re-triggers envelopes in legato.

[**ET-12**]: Use Equal Temperament for tuning intervals.
[**JI-12**]: Use Just Intonation for tuning intervals.
[**Free Tuning**]: Tune only using VCO Freq, unquantized.
[**EXP ENV**] Use Exponential curves on envelopes
[**LIN ENV**] Use Linear curves on envelopes
[**LOG ENV**] Use Logarithmic curves on envelopes

[**Presets**]: Each slot represents a preset.
- Click *load* to a preset (if present)
- SHIFT+ Click to *save* a preset
- SHIFT+{ALT|OPTION}+Click to *delete* a preset

[**Read**]: import a preset bank from a file
[**Write**]: export a preset bank to a file
[**Erase**]: clear the preset bank (on the device)

Note: preset banks save the entire preset area and must use the ".maxpresets" file extension

[**SIX/ONE**]: Define if to send the oscillator signal to separate voices (with independent filters, envelopes, LFO's) or to sum them in a single voice.
[**LINK**] Link the controls of all voices to voice-1. In a polysynth setup all six voices run in parallel (with own FLT&ENV) but have their controls "linked" (changing the filter cutoff on voice-1 changes ALL filters cutoff). With "LINK" set off voices have their own controls.
[**TUNE**] Tune defines if oscillators are tuned separately (by MIDI or internal VCO Freq) or tuned as a factor of voice-1 VCO Freq (MIDI or internal)

[**NOTE**]: Define if MIDI input triggers the envelopes. If set on, the synthesizer is playable from MIDI input, if not it responds only to internal sequencing.
[**VELO**]: Define if MIDI input velocity is used or only the internal sequencer velocity is applied.
[**ARP**]: Define if input MIDI is "clustered" (e.g. taking care of input chords - and sorted, in typical arpeggio fashion) or not. Use [HOLD] to hold the input.

[**Volume**] / [**PAN**] / [**ON**]: for each of the six voices define volume (output level), panning (left/right amount) and if the voice is sent or not to the output.

[**Rate LFO**] / [**PAN LFO**] / [**Cutoff LFO**]: for each of the six voices a dedicated LFO is available. Each LFO has its own independent rate and send amount to the PAN and to the Cutoff (bidirectional modulation)

[**Root**] / [**Scale**]: Apply a filter to the sequencers output, so that pitch is constrained to a specific musical scale. This not only applies to sequencing but also to Chord and ARP operations (both are based on the internal sequencer for triggers and intervals).

[**Chorus**] Apply a stereo chorus to the output stage.
Five settings are available:
O (OFF) for no Chorus (dry output)
I (1) for a mild stereo chorus
II (2) for a wide stereo chorus
III (3) for a mild mono chorus with inverted R/LFO phase
IV (4) for a wide mono chorus with inverted R/LFO phase

[**Glide**]: Define how pitch (VCO frequency) changes are applied. With Glide = 0ms, changes are immediate. With Glide > 0 ms the frequency is moved sliding values.
[**LFO TRIG**]: Define if the voice LFO's (for PAN and Cutoff modulations) are restarted by voice triggering
[**Drift Amount**] Define how much drifting is applied to MOD and OSC components
[**Drone**] Add a drone component to the VCA envelopes
[**Spread**] Macro for spreading the panning of the six voices (applies only if SIX voices are in use)
[**Poly**] Define how the voice rotation is applied when handling polyphonic MIDI
Poly-1 uses randomization and rotation, spreading voices as much as possible. May cut hold notes though
Poly-2 uses static assignment (no rotation) and is normally optimal for sequencing and arpeggio modes.
Poly-3 uses alternation (but not randomization) so it keeps hold notes playing (fixed assignments while notes are hold),
[**HPF Cutoff**] / [**HPF Res**] a high pass single filter (applied after the mixer), with controls for cutoff and resonance