

Blechturmstudios Belle V1

Additiver Synthesizer m. Phasenverzerrung/Ringmodulation.

Version 1.0

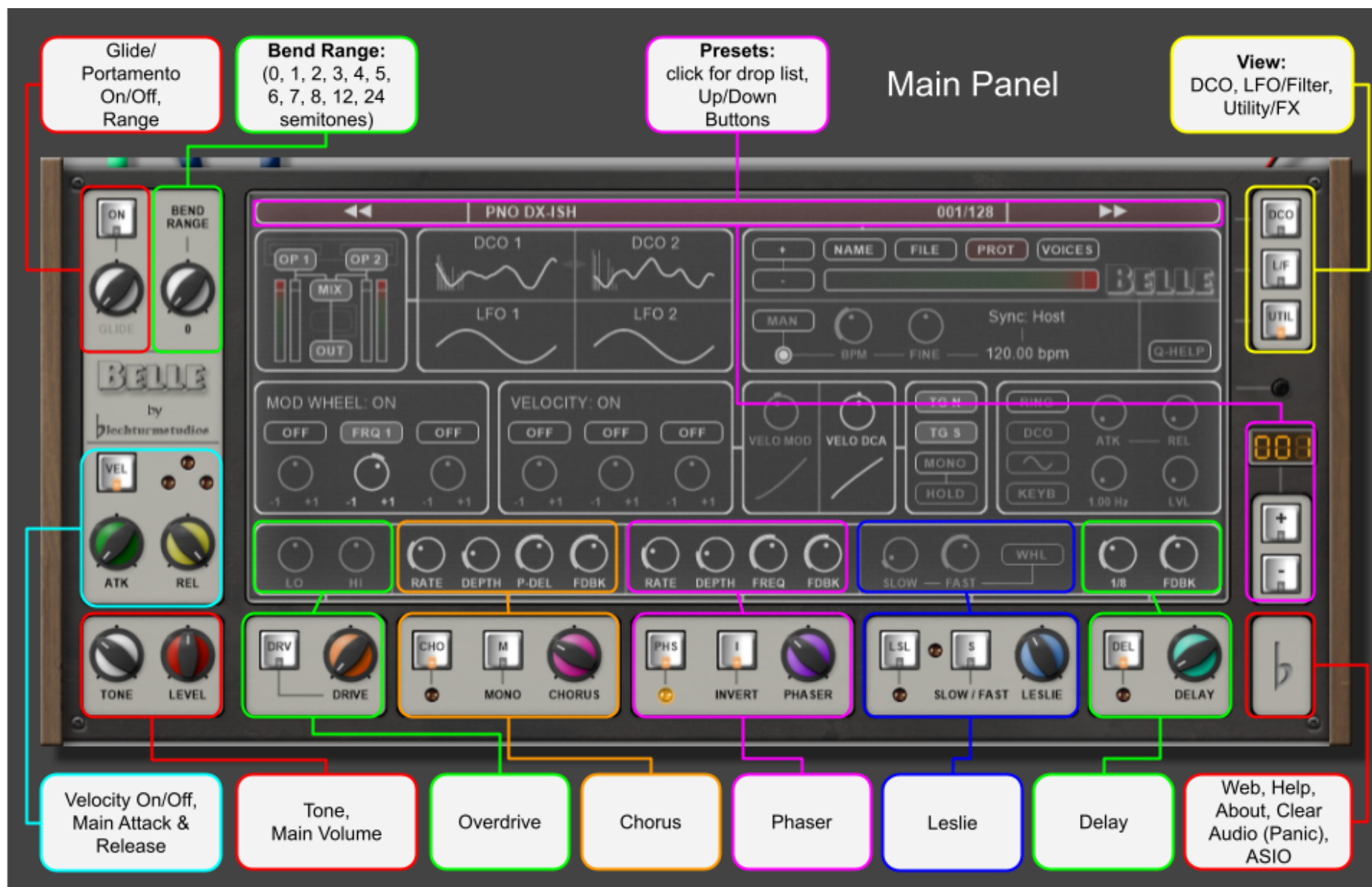
Additive Synthesizer with Phase Distortion/Ringmodulation.

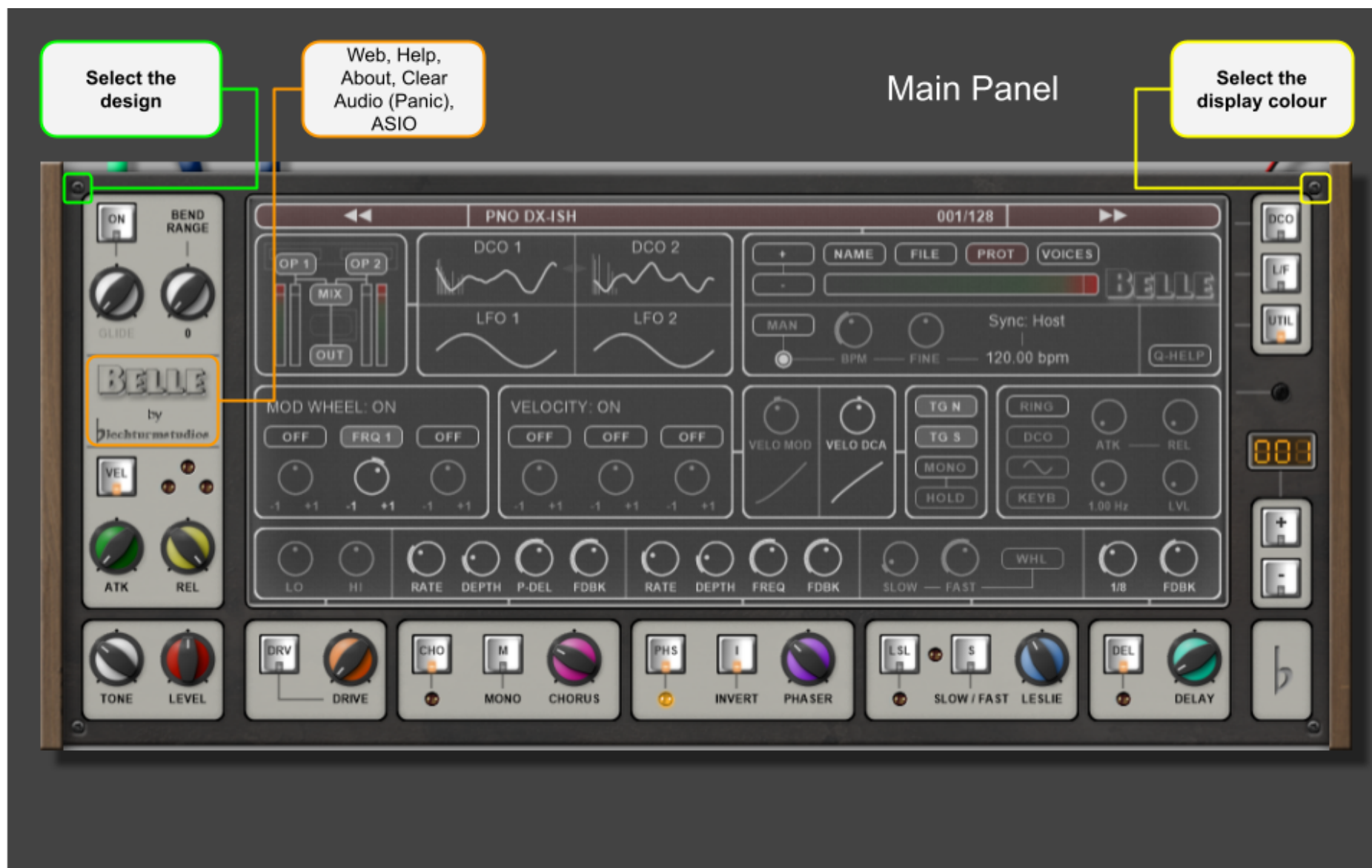
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Features:

- 2 Additive DCOs
- 1 Multi Stage Envelope per DCO
- 1 State Variable Filter per DCO
- Master Attack/Release
- Phase Distortion/Ringmodulation
- “Wide” Function (doubles the DCOs and detunes them)
- 2 LFOs, (Hz or sync to host/manual (BPM))
- Distortion, Chorus, Phaser, Leslie, Delay
- 4 Colour Themes
- Dark or bright display
- 128 Presets







DCO View

The image shows a screenshot of the 'DCO View' interface for a software synthesizer. The interface is divided into two main sections, each with its own set of controls and a waveform display. The top section contains global controls for both DCOs, while the bottom section contains individual controls for each DCO. The interface includes buttons for Tune, Phase Dist. Sends, PD, Load/Save, Mute, Link, and Wide, as well as knobs for Level and Fail. A 'RETRIG: ON' indicator is visible at the bottom of each section.

Tune: Octave, Semitone, Finetune

Phase Dist. Sends
Targets: DCO 1, 2
Level: -1 to +1
ENV: modulator is routed through the envelope

PD: Phase Distortion Input Level

Load/Save: Load/Save a waveform

Mute: Mutes the DCO

Link: DCO1 acts as master for DCO2
Wide: doubles and detunes the DCO

Additive DCO: right click to change the view; click and drag to draw harmonics

Envelope: Multi Stage envelope, right click for options

Level: DCO Level
Link: envelope 1 acts as master for envelope 2

Fail: Modulates the pitch randomly to add more "live"

RING: Ringmodulator (DCO1 x DCO2)

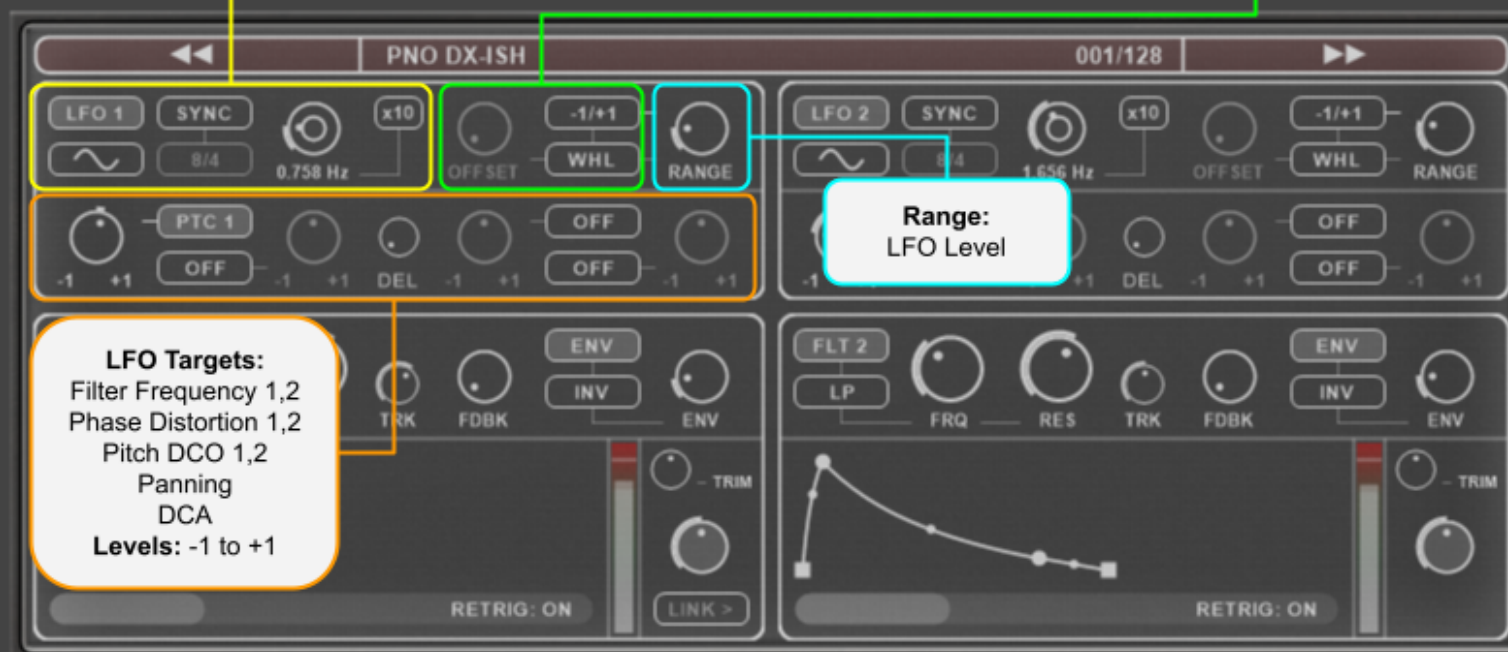
MOD/Filter View

LFO:

On/Off

Waveform: Sine, Saw, Ramp, Triangle, Square, Noise**Sync:** synchronize to BPM**Speed:** Hz (when not synced)**x10:** speed times 10**Offset:**

Range Offset when LFO Range is controlled by the MOD Wheel

-1/+1, 0/+1: bipolar or positive LFO signal**WHL:** LFO Range is controlled by the MOD Wheel

MOD/Filter View

State Variable Filter:
On/Off
Type: LowPass, HighPass, BandPass, BandReject, Peak
FRQ: Filter frequency
RES: Resonance
TRK: Keyboard Tracking
FDBK: feeds the output back into the input
ENV: enables the filter envelope
INV: inverts the filter envelope
ENV: envelope level

Trim:
DCO Level post filter

Filter Envelope:
Multi Stage envelope, right click for options

Level: DCO Level
Link: envelope 1 acts as master for envelope 2

Utility/FX View

DCO Routing Info

Info:
LFO, Mod Wheel, Velocity, Envelopes, Waveforms (click to change views)

Presets:
click for drop list, Up/Down Buttons

Preset Manager:
Preset Up/Down, Rename, File (Load/Save Presets), Write Protection, Meter
Tempo:
Man: Switches between Sync to Host/Manual
Q-Help: enables quick help

MOD Wheel Targets:
Filter Frequency 1,2
Phase Distortion 1,2
Additional Phase Distortion 1,2
LFO Speed 1,2

Velocity Targets:
Filter
Frequency 1,2
Pitch DCO 1,2

Velocity Sensitivity:
Velocity curves for modulation and DCA

MIDI:
Trigger New Notes, Trigger Stolen Notes, Mono/Poly, Hold (Mono Mode only)

Noise- / Ring Modulator:
DCO/Sample: select between DCO and noise sample
Waveform (Sine, Saw, Tri, Sq, Noise)
Keyb: pitch follows keyboard
Attack/Release, Frequency, Level

Utility/FX View

Web, Help, About, Clear Audio (Panic), ASIO

PNO DX-ISH 001/128

OP 1 OP 2 MIX OUT

DCO 1 DCO 2

LFO 1 LFO 2

NAME FILE PROT VOICES

MAN BPM FINE 120.00 bpm Sync: Host Q-HELP

MOD WHEEL: ON OFF FRQ 1 OFF

VELOCITY: ON OFF OFF OFF

VELO MOD VELO DCA

TG N TG S MONO HOLD

RING DCO ATK REL KEYB 1.00 Hz LVL

LO HI RATE DEPTH P-DEL FDBK RATE DEPTH FREQ FDBK SLOW FAST WHL 1/8 FDBK

Overdrive: Low / High EQ when Overdrive is enabled.

Chorus: Rate, Depth, Pre Delay, Feedback

Phaser: Rate, Depth, Frequency, Feedback

Leslie: Slow Speed, Fast Speed, WHL (enables the Mod Wheel to switch between fast and slow settings)

Delay: Note, Feedback