



HOSSAUDIO



# KLASSIK 106

VINTAGE ANALOGUE SYNTHESIZER

# KLASSIK 106

USER MANUAL



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## **1 - Introduction and compatibility**

KLASSIK 106 is a virtual analogue synthesizer instrument that can be loaded ONLY IN THE FULL VERSION of Kontakt 6.6 or above. Designed and tested by the startup Kontakt instruments developer HÖSS AUDIO.

KLASSIK 106 is developed based on Kontakt 6 new Wavetable engine.

KLASSIK 106 was designed to emulate the famous 80's Analogue synthesizer, alongside 4 effects modules based on classic hardware effects (Tape Delay, Equalizer, Compressor, Tube Overdrive).

## 2 - What's inside?

KLASSIK 106 includes 4 main modules:



### MODULE 1:

A virtual vintage analogue synthesizer based on the iconic 80's 106 hardware synth.

### MODULE 2:

A Tape delay machine with 3 tape heads and a spring reverb (Impulse Responses), based on the iconic Tape Delay 201 audio effect unit.

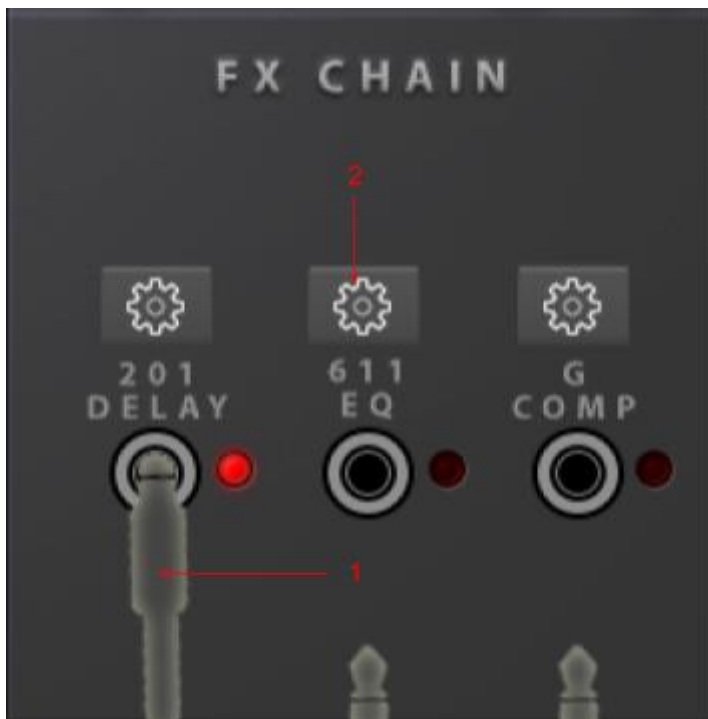
**MODULE 3:**

A Parametric equalizer based on the classic 611 Console Channel Strip.

**MODULE 4:**

A compressor based on the classic G series console master bus compressor, alongside a Tube overdrive effect module.

### 3 - Effects Panel



The FX CHAIN is used to:

- Activate/Deactivate the effects modules
- Access each effect's settings

## 1 - EFFECT ON/OFF

- Drag the jack connector Up/Down to Activate/Deactivate the effect.
- The Red Led indicator on the right of the connector indicates the Active/Bypass state of each effect.

## 2 - EFFECT SETTINGS

Press on the “settings” logo on top of each module, to access the settings of the corresponding effect

# 4 - Synth 106

Synth 106 is the main module containing the Synthesizer module.

Synth 106 automatically appears as the main module when the instrument is opened.

## 4.1 - LFO



**1 - LFO RATE**

Sets the LFO RATE.

**2 - LFO DELAY TIME**

Sets the time that needs to pass before the LFO kicks in.

**3 - LFO MANUAL/AUTO MODE**

Sets the LFO trigger mode:

AUTO: The LFO is triggered automatically.

MANUAL: The LFO is only triggered when the LFO TRIGG ( in the Bender panel) is pressed.

**4 - LFO FREE/SYNC MODE**

Sets the LFO Rate mode

FREE: the LFO RATE slider (1) sets the LFO rate in Hz.

SYNC: the LFO RATE slider (1) sets the LFO rates (Tempo synced)

**4.2 - DCO**



### 1 - RANGE SELECTOR

Sets the pitch of the DCO

4': Octave down transpose

8': No transpose

16': Octave up transpose

### 2 - LFO DEPTH

Sets the depth of the LFO controlling the pitch.

### 3 - PWM (Pulse Width Modulation)

When (4) is set to Manual, the PWM slider controls the Pulse Width of the square waveform.

When (4) is set to LFO, the PWM slider controls the depth of the LFO that controls the Pulse Width.

### 4 - PWM MODE SWITCH

When set to Manual, the Pulse Width is controlled by the PWM slider (3).

When set to LFO, the Pulse Width is controlled by the LFO.

### 5 - DCO WAVEFORMS (On/Off)

Turns On/Off each of the DCO's Waveforms individually.

Square - Saw - Sub

### 6 - DCO WAVEFORMS (Level)

Controls the volume of each of the DCO's Waveforms individually.

Square - Saw - Sub

### 7 - SQUARE WAVEFORM DISPLAY

Displays the shape of the Square waveform.

### 8 - NOISE LEVEL

Controls the volume of the Noise.

### 4.3 - HP



Sets the Cutoff point of the High Pass Filter.

\*If the HPF slider is set to 0 ( it's minimum value ), lower frequencies are boosted.

Over 0, the HPF slider sets the Cutoff point of the High Pass Filter.

### 4.4 - VCF



### 1 - FREQUENCY

Sets the Cutoff point of the Low Pass Filter.

### 2 - RESONANCE

Sets the Resonance level applied on the Cutoff point.

### 3 - POLARITY SWITCH

Sets the Polarity of the ADSR envelope.

### 4 - ENVELOPE MODULATION

Sets the intensity of the modulation applied by the Envelope on the LP filter.

### 5 - LFO MODULATION

Sets the intensity of the modulation applied by the LFO on the LP filter.

### 6 - KEYBOARD CV MODULATION

Sets the intensity of the modulation applied by the Keyboard control voltage on the LP filter cutoff point.

## 4.5 - VCA



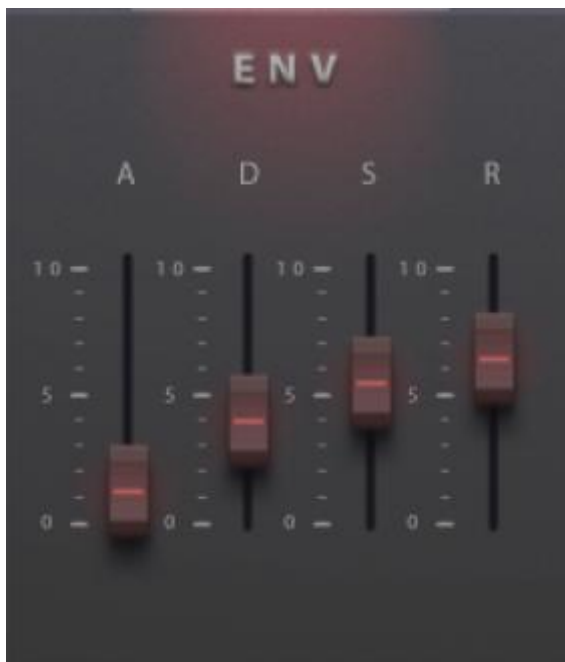
## 1 - CONTROL SIGNAL SELECTOR

Sets whether to control the VCA by the signal from the ADSR envelope generator or by the Gate signal.

## 2 - VCA LEVEL

Adjusts the VCA Level.

### 4.6 - ENV



Envelope that generates the control voltage applied to the VCF and VCA.

Envelope has 4 parameters:

A (Attack time)

D (Decay time)

S (Sustain level)

R (Release time)

## 4.7 - ARPEGGIATOR



### 1 - ARPEGGIATOR (ON/OFF)

Turns the Arpeggiator On/Off (Arpeggiator state is indicated by the Red Led indicator).

### 2 - HOLD

If HOLD is pressed, the arpeggiator continues to play after you release the pressed notes.

### 3 - ARPEGGIATOR RATE

Sets the Rate of the Arpeggiator (Synced)

### 4 - ARPEGGIATOR RATE DISPLAY

Displays the current rate.

### 5 - ARPEGGIATOR RANGE

Sets the arpeggiator playing range (1,2 or 3 octaves)

### 6 - ARPEGGIATOR MODE

Sets the arpeggiator playing mode:

Up

Up / Down

Down

## 4.8 - CHORUS

Buttons 1 and 2 activate the built-in Chorus effect. Mode 2 has a higher (faster) rate than Mode 1.



## 4.9 - BENDER PANEL



## 1 - LFO TRIGGER

If LFO trigger mode is set to MANUAL, the LFO trigger switch activates the LFO when pressed.

## 2 - DCO Bender amount

Sets the variable range of the DCO's pitch when it's controlled by the Bender.

## 3 - VCF Bender amount

Sets the maximum effect of the Bender, when it's controlling the Cutoff point of the VCF.

## 4 - PORTAMENTO TIME

Sets the time of the portamento (glide) effect.

## 5 - PORTAMENTO

Turns the portamento effect ON/OFF

## 5 - Delay 201



### 1 - TAPE HEADS

Adjusts the Echo volume and Feedback length of each of the 3 Tape heads individually.

### 2 - SATURATION

Adjusts the Saturation amount on the overall echo.

### 3 - FLUTTER

Adjusts the Flutter amount on the overall echo.

### 4 - TAPE NOISE

Turns the Tape noise ON/OFF

### 5 - TAPE AGE

Adjusts the Tape Age ( The older, the noisier)

### 6 - ECHO FILTERS

High Cut and Low Cut filters applied to the Echo.

### 7 - REPEAT RATE

Each of the 3 Repeat Rate settings, defines a new value of repeat rate (Tempo Synced) for each of the 3 Tape heads. ( *Chart.01 - Repeat Rate* )

### 8 - MODE SELECTOR

Each of the 12 modes activates and deactivates a combination of tape heads and reverb ( *Chart.02 - Mode Selector* )

### 9 - REVERB LEVEL

Adjusts the amount of Spring reverb.

### 10 - REVERB FILTER

Adjusts the Low Pass and High Pass filters applied to the reverb.

### 11 - TAPE

Represents the state of the Tape delay ( if the tape delay is active, the tape is spinning)

\*Click on the Tape, to imitate a brief touching/stopping of the tape heads.





## 6 - G-Compressor and Tube Overdrive



### 1 - THRESHOLD

Sets the threshold of the compressor.

### 2 - RATIO

Sets the Ratio of the compressor.

### 3 - ATTACK

Sets the Attack time of the compressor.

### 4 - RELEASE

Sets the Release time of the compressor.

### 5 - MAKE UP

Sets the Make Up gain of the compressor.

### 6 - GAIN REDUCTION

Displays the amount of Gain reduction after compression.

### 7 - DRIVE

Drag the meter's needle to adjust the amount of Tube drive applied to the signal.

### 8 - DAMPING

Adjusts the Damping amount applied to the driven signal.

## 7 - Equalizer 611



### 1 - LF

Low Frequency section.

### 2 - LMF

Low-Mid Frequency section.

### 3 - HMF

High-Mid Frequency section.

### 4 - HF

High Frequency section.

### 5 - Frequency knob

Sets the frequency at which the boost or cut will be applied.

### 6 - Bell

Toggles the Bell shape:

If turned off, the band becomes a shelf.

### 7 - Level knob

Sets the amount of boost or cut (dB).

### 8 - Q knob

Controls the width of the frequency band:

The higher the setting, the wider the frequency band.

KLASSIK 106 by HÖSS AUDIO

<https://www.hadihosri.com/>

