

General

The VD-01 module allows to display audio signals onto a video screen or a standard television. Two audio signals can be displayed at the same time and be adjusted in position.

Attention: Input voltages need to be within the of +5 V and -5 V (usual range for an audio signal). Higher voltages may damage the circuit board.

Set-up

The VD-01 module is fully compatible to Doepfer's A-100 modular system - in size, bus-power and CV/Gate voltage. Connect the 10-pin MFB cable to a correspondent 16-pin jack on the Doepfer mainframe bus. Supply voltage needs to be +/- 9-12 volts, 5 volt is not needed. The wattage is 100 mA, the module size 6 TE (Teileinheiten).

Attention: Please, check for correct polarity! The colored side of the connector-cable needs to point downwards so that the cable is not twisted.

Connections and functions

Both jack inputs In A and In B accept audio signals. These can be oscillator outputs as well as any other audio signal. The video signal is output to a standard RCA-jack and can be connected to any video monitor or television. The VD-01 offers the following functions:

Level A and Level B

These controls adjust the amount of amplification applied to the input signals. In mode 3 LEVEL A adjusts the horizontal display size, LEVEL B the vertical display size.

Pos A and Pos B

The POS-controls (position) allow vertical positioning of the displayed waveforms. To display a single channel only, set the other channel's LEVEL control to zero and move its POS control fully upwards.

To get a useful display information in mode 3, set both LEVEL controls to zero. Now, adjust the displayed dot to the display center using the POS controls. Now, adjust the levels.

Time/Div

Time/Div controls the sample frequency at which the audio signal is sampled. The control ranges from 100 ms to 1 μ s.

Mode switch

Mode switches between three display alternatives.

1. Each sample value is displayed by a dot.
2. Like 1, with all dots being connected by a line.
3. X/Y display (Lissajous-figures) with Input A on the horizontal axis and input on the vertical axis. This mode is recommended for sinusoidal and stereophonic audio input signals.

Visual Grid

Use the jumper (GRID) to activate/deactivate a visual grid for the display.

Trigger Pos or Neg

This switch selects the input signal's positive or negative slope as trigger. The center position activates the FREEZE function for the actual display view. Here, only the POS controls are active.

Trigger A or B

The trigger switch selects between input signal A and B as trigger signals. The center position display a view independent of both slopes.

AC DC

This switch decides whether the input signal is displayed with additional DC (direct current). This influences the display position.

Setting the video standard (frame rate)

A jumper on the module's back allows to set the video frame rate between 50 and 60 Hz.. The setting in Europe would be 50 Hz, for the US and Japan set this jumper to 60 Hz. Most televisions can also be set to work with 60 Hz. If so, the method is preferable because the signal is display across the full screen height.



Operating manual

VD-01 Module