

## Sinus – 1K

### mixing amplifier



The AVE model sinus - 1K is a mixing amplifier with five mic / line inputs and a switchable CD / AUX input. Each mic / line input is equipped with a GAIN control, a 3-band equalizer and a volume and power indicator. The CD / AUX input comes with separate bass and treble controls. A 9-band graphic equalizer affects only the inputs 1 - 5

All sources are controlled by a master volume control. The SINUS - 1K comes with a VU meter and a display for clipping and protection.

The unit also features a variety of additional features such as a directly controllable output 0 - +6 dB, optional remote control, adjustable sensitivity for AUX.

The mixer amplifier sinus - 1K achieves optimum sound quality both in challenging church sound as well as other difficult acoustic environments.

<b>Line</b>	Electronic balanced
Input sensitivity:	-19 dBu ± 1dB
Frequency Response (-3dB):	40 Hz - 20 KHz

<b>Microphone</b>	Electronic balanced
Input (Mic high /Mic low):	-58 dBu/ -34 dBu ±1 dB
Frequency Response (-3dB) input MIC:	160 Hz - 20 KHz
CMMR:	> 60 dB @ 1 kHz
Gain Range:	30 dB
THD Range:	20 dB
Hi-pass filter:	160 Hz, 6 dB/oct
Phantom power:	+48V rear selectable per input

<b>Equalizer</b>	
Treble:	±12 dB @ 10 kHz
Middle:	±12 dB @ 700 Hz
Bass:	±12 dB @ 70 Hz
LED indicators:	green (signal)

## AUX/CD

AUX impedance:	20 k $\Omega$
CD Impedance:	27 k $\Omega$
AUX input sensitivity:	-13 dBu/+3 dBu $\pm$ 1 dB
CD input sensitivity:	+3 dBu
Frequency response (-3dB) input CD/AUX:	20 Hz - 20 KHz

## CD/AUX EQ

Treble	$\pm$ 12 dB @ 10 kHz
Bass	$\pm$ 12 dB @ 100 Hz

## Outputs

<b>PREOUT1, 2</b> output impedance:	140 $\Omega$ balanced; 70 $\Omega$ unbalanced
Output level PREOUT 2:	0 dBu
Output impedance DIRECT OUT:	140 $\Omega$ balanced; 70 $\Omega$ unbalanced
Output level DIRECT OUT:	+9 dBu (variable potentiometer)
Output impedance REC:	70 $\Omega$ unbalanced
Output level REC:	0 dBu

## Noise

Noise level OUT 2 (20 Hz - 20 kHz) master volume at 0:	-95 dBu
Noise level OUT 2 (20 Hz - 20 kHz) master volume max.:	-80 dBu
Noise level CD/AUX (20 Hz - 20 kHz) master volume max.:	-80 dBu
On Mic (20 Hz - 20 kHz) $R_s = 150 \Omega$	-124 dBV

## Output power

Output power	2x 150 W
Output impedance	50V/70V/100V
LED-display	yellow (dysfunction), red (overload)

## General

Remote control	optional remote control
Mute	muting for each input
Operating voltage:	230 V $\sim$ , 50-60 Hz
Consumption:	130W (1x150), 115 W (1x240)
Dimensions (w x h x d):	483 x 88 x 340 mm
Weight:	9.5 kg (1x150), 10.5 kg (1x240)

Technical modifications reserved