



STA-1000DSP

Order No.: 0255750

Price upon request

PRODUCTINFOS

Series of High-performance class D Amplifiers

Professional equipment consisting of high-quality components, ideally suited for fixed installations and mobile use.

Special features:

- Class D concept with power amplifier modules from PASCAL
- Silent operation due to temperature-controlled fans
- Extra wide dynamic range with very low THD

Unbeatable reasons:

- Excellent acoustic performance
- High power reserves
- Energy-saving concept due to high efficiency
- Impresses by an extra lightweight design

Stereo class D PA amplifier,

with DSP technology.

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance

- Extra wide dynamic range with very low THD
- Excellent pulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- Silent operation due to temperature-controlled fans which are only activated if the temperature rises above 85 °C
- Lightweight design due to compact switch-mode power supply
- Energy-efficient concept due to a high efficiency
- Protected against short circuit, overtemperature, DC voltage at the output and overload
- Power LED
- Bridged operation
- Wide mains voltage range: ~ 85-265 V
- NEUTRIK POWERCON and SPEAKON connections

DSP specifications:

Audio performance

- Dynamic range (inputs): 120 dB
- Dynamic range (DSP output): 117 dB
- Frequency range: 10-40,000 Hz
- Latency: 0.62 ms

Interface

- Ethernet and USB interface
- Real-time control via PC software
- Integrated LCD controller
- Supplied with PC software

Digital audio performance

- Sampling rate: 96 kHz
- Mixed mode: 64-bit digital processing

Inputs and outputs

- Input sensitivity (setting: 0 dB): 1.2 V
- Maximum input voltage: 11 V
- Maximum output voltage for subwoofer: 3 V

DSP audio controlling parameters

- 10 parametric filters for each input and output
- Types of filters: bell, shelving, notch or all-pass

- Delay for each input: up to 800 ms; delay for each output: 5 ms
- Filters: Butterworth, Bessel, Linkwitz-Riley with up to 24 dB/oct.
- Limiter for each input and output
- Selectable phase: 180°
- 80 presets to be stored

SOUNDCHECK 09/2015

“The monitor speaker system PAB-312M/SW and the amplifier STA-1000DSP from IMG Stage Line are high-quality components which support musicians at small to medium-sized events and have got what it takes to even meet higher requirements. Whether used individually or in combination: they are robust and suitable for various applications on tour as well as for fixed installations.”

Please note:

32-bit applications, including the current version of the DSP controller, are no longer supported under the MacOS version 10.15 (Catalina). The controller software is currently being updated for 64-bit MacOS Catalina. Users of older MacOS versions as well as Windows users are not affected by this change. Apple's announcement will give you further information on the change to 64-bit technology.

TECHNICAL SPECIFICATIONS

STA-1000DSP

Peak output power	1,200 W
Power rating	1,000 W
Power rating at 4 Ω	2 x 500 W
Power rating at 8 Ω	2 x 280 W
Power rating with 8 Ω bridged operation	1 x 1,000 W
Channels	2
Inputs	1.2 V/24 kΩ (XLR, bal.)
Frequency range	20-20,000 Hz
Crossover network	DSP
Integrated limiter	yes
S/N ratio	> 119 dBA
THD	< 0.05%
Mains voltage	~ 230 V
Mains frequency	50 Hz
Power consumption, operation	1,160 VA
Admiss. ambient temp.	0-40 °C
Width	482 mm

STA-1000DSP

Height	89 mm
Depth	335 mm
Rack spaces, RS	2
Weight	5.18 kg
Connections	1 x 3-pole XLR L/R
	1 x 3-pole XLR (subwoofer)
	1 x NEUTRIK POWERCON
	1 x NEUTRIK SPEAKON L/R
	1 x NEUTRIK SPEAKON bridged
	USB
	Ethernet (Cat. 5)