

Product Datasheet - Technical Specifications



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AUDIO ANALYZER

MCD ELEKTRONIK GMBH

RECORDING AND ACQUISITION
OF ANALOG / DIGITAL SIGNALS



Precise audio analysis and recording in a wide range of applications.



01

Practical LED status display
Visible feedback green/yellow/red
Error display for error indication

03

Analog input/output
Input/output ranges
1mVrms to 50Vrms

02

Optical and electrical input/output S/PDIF
Digital optical S/PDIF up to 192kSps
Digital electrical S/PDIF up to 192kSps

04

Connections for keyboard, mouse, monitor
USB ports, HDMI, network

FEATURES AT A GLANCE

- Configuration via Remote Desktop, VNC and TeamViewer possible
- Integration of intelligent components
- DAkkS certification for the highest possible measurement quality and accuracy
- Available as 19" rack or desktop version, as well as with integrated PC
- Control and data transmission via USB 2.0 High Speed, galvanically isolated or Ethernet (depending on device variant)



FLEXIBLE & PRECISE - NEXT LEVEL AUDIO ANALYSIS

The MCD AudioAnalyzer is a highly developed **recording and acquisition device** that is equally suitable for analog and digital signals in the field of audio technology. By using a first-class audio-to-analog digital converter, the Toolmonitor AudioAnalyzer **precisely digitizes the audio signals** and makes them available to the analysis software.

The scope of application of the AudioAnalyzer includes the analysis of test signals from sound systems and also includes the performance of **noise measurements** on various elements such as switches, gearboxes, mechanical devices or signal generators.

The flexible input ranges of the audio analyzer extend from 10 mVrms to 50 Vrms, while the generator can be

controlled in the range up to 15 Vrms. Both **analog and digital signal sources** can be used as input.

MCD Elektronik can draw on over 40 years of experience and is at the pulse of time with innovative developments that arise from the application and often in cooperation with the customer.





FEATURES AND PROPERTIES

- ✓ Ethernet / Socket interface with API-DLL, SCPI commands, LabView VI, C# / .Net, Console / Telnet
- ✓ Installation in 1U housing e.g. as standalone hardware for all measurement tasks
- ✓ Supply via 100 - 240 V
- ✓ Input and output 2-channel analog balanced
- ✓ Input level up to 50 Vrms
- ✓ Output level up to 15 Vrms
- ✓ Input and output digital electrical and optical S/PDIF up to 192 kSps
- ✓ Input and output channels can be switched directly to the input and output channels of the MCD audio switches (with accessories)
- ✓ 2 XLR sockets and plugs each
- ✓ Sample rates 44.1 kHz / 48 kHz / 96 kHz / 192 kHz



FEATURES & ACCESSORIES

Electrical and mechanical properties

Housing dimensions (L x W x H)

204mm x 105mm x 46mm

Weight without accessories

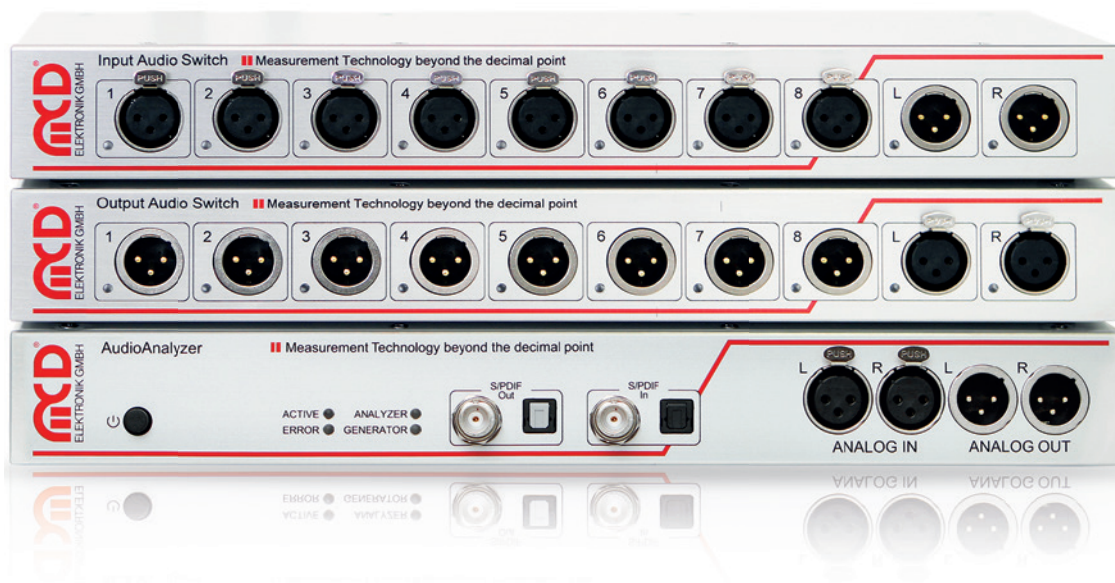
1 kg

Connections

- ✓ 2x TOSLINK® compatible connection
- ✓ optical S/PDIF input and output
- ✓ electrical S/PDIF input and output
- ✓ analog in-/output
- ✓ 2x BNC socket
- ✓ 2x XLR socket
- ✓ 2x XLR plugs
- ✓ AC socket C14
- ✓ external power supply 230V

ACCESSORIES

- ✓ MCD Input Audio Switch for multiplexing and expanding analog input signals
- ✓ MCD Output Audio Switch for multiplexing and expanding analog output signals
- ✓ LED status display of active connections, connection of up to 16 devices
- ✓ Digital monitoring and control of all hardware components via associated toolmonitors





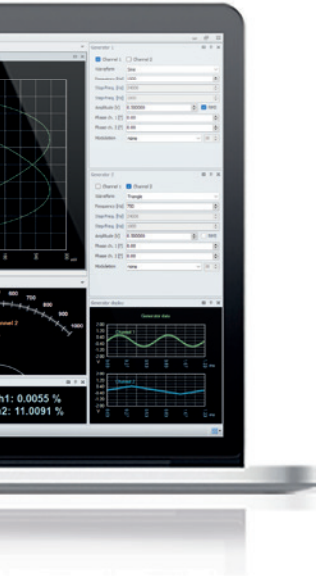
ANALYSIS SOFTWARE TOOLMONITOR AUDIOANALYZER



SOFTWARE FEATURES

The analysis software not only functions as an independent application for control, but also offers the option of remotely controlling or querying all functions and measured values from other programs. This remote control can be implemented using various interfaces such as .Net SDK, Socket, WebApi or Commandline.

- ✓ Analysis and generation of analog and digital signals
- ✓ Modern and user-friendly user interface
- ✓ Flexible design, data import and export
- ✓ Oscilloscope, FFT spectrum, measurement of AC, DC, RMS, THD, FREQ, SINAD and much more
- ✓ Integrated project management allows free positioning of the windows according to individual requirements
- ✓ Modern visualization of the generated waveform via generator display
- ✓ Various modulation forms such as amplitude, frequency and phase modulation
- ✓ Extremely fast measurement functions for frequency responses, phase responses and much more.
- ✓ Visualization of the current input signal via live display
- ✓ Visualization of the frequency spectrum and phase response
- ✓ Visualization of dependencies between measurement channels via XY diagram
- ✓ Display of the RMS value via a pointer instrument
- ✓ Tabular listing of all measured values
- ✓ Programmable script editor for extension in C# of the .Net framework
- ✓ Loading and saving of all settings via project files
- ✓ Remote controllable by all third-party systems



Application



Socket, Web, Commandline, ...

AudioAnalyzer



AudioAnalyzer

