

DIGITAL SYSTEM SOLUTION

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www.digisysltd.com

DIGI-SYS

An ISO 9001:2015 Company



HIGH QUALITY SOUND

PRO AUDIO MONITOR

DIGITAL SIGNAL PROCESSING

DIGI-SYS Pro Audio Monitoring is a perfect solution for professional audio level monitoring requirements in broadcast stations and production studios. The design of the unit can handle analog stereo signals as well as AES/EBU digital format audio signals with built in high quality D to A converter and associated circuits. All sample rates up to 192 KHz are supported and selected automatically. Digital signals support 16 to 24 Bit resolutions at all sample rates and is again automatically selected.

- HIGH QUALITY DESIGN
- RELIABLE
- GREAT PERFORMANCE
- BUILT IN SPEAKER
- LOW WATTAGE HIGH SOUND
- COST EFFECTIVE
- DIGITAL SIGNAL PROCESSING

Pro Audio Monitor DSP

Salient Features

- High Input impedance for analog input
- Active balanced impedance for analog input
- Stereo mode operation
- 32 KHz-192 KHz sample rates supported
- Sample rates selected automatic
- 16-24 bits resolution
- Low noise
- Low distortion
- SMPS power supply
- Alternate 24V DC
- Low cross-talk
- Excellent CMRR
- High damping factor
- Isolated audio ground
- Open circuit protected
- Short circuit protected
- RF pickup protected
- Over heat protected
- Rack mountable

Application

- Digital and Analog audio monitoring
- Audio loss monitoring
- Real time studio audio monitoring

DIGI-SYS Pro Audio Monitor is a 1U rack mount unit which produce professional audio outputs. This device works on digital signal processing. The device has balance XLR or unbalanced BNC 1 analog stereo output and upto 3AES/EBU and 1 SPDIF 75 Ω input signals. Pro Audio Monitor has colour LCD display for showing all internal processing and selection with interactive volume control.

DIGI-SYS Pro Audio Monitor support digital input with sample frequency from 32-192Khz. This unit has excellent audio performance and has analytical capabilities and decode errors in the incoming digital signals. The unit has a colour LCD display which can display all incoming signals parameters such as bit depth, sample rate etc. The unit works universal power supply 110/230V 50-60Hz.



Technical Specification

Input

- Audio Inputs
- Input Level
- Input Impedance
- CMRR
- AES/EBU Sample Rate
- Selection

AES/EBU Digital 2 and 1 SPDIF or 1 Stereo Analog
0 dBu, +20 dBu Max
20 kW (Analog) 110 W (Digital)
>60dB Typical
32 to 192 KHz processed without conversion
Front panel rotary control with colour LCD

Output

- Output Level
- Output Impedance
- Frequency response effective
- Harmonic distortion
- Signal to Noise ratio
- Phase difference
- Protected against
- Inter output loading
 - 1 Output shorting
 - 3 Output shorting
- Inter-channel matching
- Inter-channel cross talk
- Acoustic response
- Acoustic output
- Power

90 dB spl Min
50 W (Analog)
<± 0.5 dB (20Hz to 20KHz)
<0.02% (1KHz, +8dBu output)
>90 dB (Unweighted 22 Hz-22 KHz)
<5°
Short circuit, Overload and Over heat

<0.1 dB on remaining output
<0.3 dB on remaining output
0.5 dB
70 dB
40 Hz-20 KHz ±20 dB
90 dB SPL@1Mtr
110/240V, 50/60 Hz

Audio Modifiers

- DIM
- Cut L & Cut R
- Mono
- Phase Invert

Reduce speaker audio level by 20 dB (Optional)
Mute left/right speaker audio
Combines left & right audio inputs
Inverts phase of right audio input

Amplifier Loudspeakers

- Configuration
- Power Output
- Cross Over
- Distortion at LF Output
- Distortion at MF Output
- Distortion at HF Output
- Noise
- Volume Control

3 way stereo Low/Mid & High frequency drivers
15W Digital amplifier
500 Hz (3rd Order butterworth & 2.2 KHz)
<0.05% (100 Hz, 15W Output)
<0.05% (1 KHz, 15 W Output)
<0.05% (10 KHz, 15 W Output)
More than 90 dB below full output
Interactive rotary control

Status Indicators

- Stereo Bar Graph
- Limit
- Clip
- Lock

2.2 TFT 240x340 colour LCD display
Indicates loudspeaker protection limit is active
Indicates internal digital clipping due to overlevel
Indicates lock achieved on selected digital input

Connector

- Analog audio input
- Digital AES audio input
- SPDIF Input
- Headphone

2 x XLR 3-Pin Female (Balanced, may be unbalanced)
2 x XLR 3-Pin Female (balanced, may be unbalanced)
1 BNC 75 Ω unbalanced
1/46.35 mm, A-gauge, 3-Pole stereo jack socket

Physical Dimensions

- 1 U Rack mount
HxWxD

44.5mm x 483mm x 227mm (1.75"x19"x8.9")

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Why Choose DIGI-SYS

DIGI-SYS Your innovative idea's need products which can meet new challenges and compliment your efforts. Our in house innovative end to end computer aided design and manufacturing process is the best solution to meet critical timelines. Our artificial intelligence integrated in every product design, provides unmatched flexibility in field to configure our products to critical demanding needs and yet are very simple to operate. But technology and human innovation know no scarcity.

Our marketing and sales is bonded to customer support. Our technical experts assist you in system design as part of our product offering, which is optimised to your needs. In other words our support starts even before you buy a product from us. Our goal is to provide you best solution for your needs rather than sell you what we have in stock. Prospects who show interest in our products and services invariably get rewarded with best solution at most cost effective price.

Our Products Line

- Pro Audio Monitor
- Analog to Digital & Digital to analog Audio Converter
- Audio Router
- Remote Site Controller
- Audio Distributor/Switcher
- ON-AIR Light
- Audio Console Mixer
- FM Power Divider/Combiner
- Convection Dummy load (DC to 300 Mhz)

For further information, Please contact us at:

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