⟲ Symetrix

The Vision Behind the Sound

The *Integrator Series* Deuce 722 from Symetrix.

The second product in the Integrator Series is the **Deuce 722**, an all-in-wonder 2x2 DSP toolbox designed to solve numerous everyday audio processing problems for integrators. Featuring two inputs (configurable as mic or line level in dual mono or stereo) and two outputs, it contains microphone pre-amplification, compression, downward expansion, de-essing, AGC, Ambient Noise Compensation, feedback elimination, equalization and more within a single rack space. Setup is easy and efficient with a straightforward Windows® interface connected over Ethernet. The 722 is also compatible with Symetrix RS-485-based Adaptive Remote Control (ARC) Wall Panels for user control. Deuce 722, the ultimate DSP toolbox from Symetrix, the engineering-driven company of signal processing specialists.
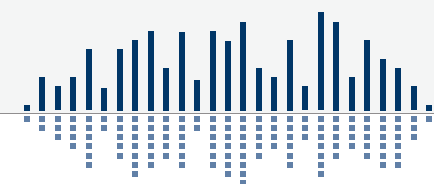
Deuce 722 Applications

Mono and Stereo Signal Processing for:

- Live Sound: FOH Speaker Management, Monitor EQ and Feedback Elimination

- Public Address: Voice processor

- Broadcast: Headphone processor, line sweetener

- Night Clubs: Loudspeaker management and system protection from overzealous DJs

- Retail Locations: Simple paging over background music or Ambient Noise Compensation

- Digital Media Production: Tame mis-matched sound effect levels and EQ to perfection

- Assistive Listening Processing: Send the most intelligible audio for your ALD transmitters

Features

- Mono and Stereo Signal Processing for Live Sound, Public Address, Broadcast, Night Clubs, Retail Locations, Digital Media Production, Assistive Listening.

- Two (2) Mic/Line Inputs (featuring a THAT front-end with true +48V phantom power), configurable for dual mono or stereo; Two (2) Outputs, configurable as dual mono, mixed or stereo.

- Processing modules include: Compression, AGC, Limiting, Expansion, De-essing, Gating, Ducking, Ambient Noise Compensation, Feedback Elimination, Equalization, Mixing, Stereo Width/Balance, Delay and more.

- Exclusive volume Clamp™ module helps protect your sound system from overzealous DJs and sound mixers.

- Wizard-driven software set-up; network ready.

Engineered by **Symetrix**

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A **Brilliantly Simple Interface** quickly configures the Deuce 722 for your particular application.

The **Connection Wizard** effortlessly connects your computer to the Deuce 722 hardware saving time and money.

Architects and Engineers Specifications

The device shall provide two inputs that are selectable as line or mic level with phantom power. All signal processing, mixing and routing functions (including input gains) shall be controllable via software. Audio inputs and outputs shall be accessed via rear panel XLR and Euroblock connectors.

The Graphical User Interface (GUI) software shall be installer programmable using the Windows® XP operating system. Computer connection and control shall be via the devices' rear panel Ethernet connector. The GUI shall provide display and control of all signal processing and configuration functions including, but not limited to:
• Input and Output Gain • Noise and Signal Generation • Filters • Parametric Equalization • Graphic Equalization • Wide-band, Split-band and Series Compression • Limiting • Automatic Gain Control • The Clamp™ • Downward Expansion • Gating • Ducking • De-Essing • Feedback Elimination • Ambient Noise Compensation • Mixing • Stereo Width and Balance • Delay • Polarity.

The front panel shall include input and output signal level indicators as well as indicators for POWER, NETWORK, and ARC plus a numeric readout showing last the last recalled preset.

External control shall include preset selection as well as output level control and muting, and shall be via industry-standard CAT5 cable with RJ45 connectors using the optional ARC Wall Panel remote controls.

All program memory shall be non-volatile and provide program security should power fail. The device shall provide an on board real time clock to facilitate automatic, timed changing of presets.

Audio conversion shall be 24-bit, 48 kHz. The dynamic range of the processor shall not be lower than 110 dB A-weighted.

The device shall have an IEC power input socket. The unit shall meet UL/CSA safety requirements. The unit shall be RoHS compliant. The chassis shall be constructed of cold rolled steel and aluminum, and mount into a standard 19" 1U EIA rack. **The device shall be a Symetrix model Deuce 722.**

Specifcations

INPUTS

Number of Inputs: Two (2) switchable mic or line level
Connectors: XLR Female and Euroblock
Impedance: > 6.6 kΩ balanced, > 3.3 kΩ unbalanced
Maximum Input Level: +24 dBu
CMRR: > 40 dB, typically > 50 dB @ 1 kHz
Input Gain: 0 – 54 dB
Mic EIN: > -127 dB, 22 Hz – 22 kHz, 100 Ω source impedance
Mic Phantom Power: 48 VDC

OUTPUTS

Number of Outputs: Two (2) line level
Connectors: XLR Male and Euroblock

Type: electronically balanced
Impedance: 200 Ω balanced, 100 Ω unbalanced
Max Output Level: +24 dBu

PHYSICAL

Shipping Weight: 8.15 lbs. (3.70 kg)
Dimensions: 1U (WDH: 48.02 cm x 22.15 cm x 4.37 cm / 18.91 in x 8.72 in x 1.72 in), depth is specified from front panel to back of connectors.

ENVIRONMENTAL

Ventilation: Maximum recommended ambient operating temperature is 86° F (30° C).

SAFETY AND EMISSIONS

UL 60065, cUL 60065, IEC 60065

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