Audio Vertriebs
Entwicklungsgesellschaft
mbH

DMV-64

Digital automatic mixing amplifier
with 6 mic/line inputs and 4 outputs

Streaming Media Server:

- DMV-64 is a live audio streamer
- It records audio from an input/output channel, encodes it and sends it to a streaming server.
- DMV-64 can do live streaming, so people can hear your video while it is being recorded.
- It can be used to create an internet radio station or a privately running jukebox and many things in between.
- It is very versatile in that new formats can be added relatively easily.
- DMV-64 supports open standards for communication and interaction.
- DMV-64 supports TCP/IP, UDP, RTSP and RTMP streaming protocols.

Technical specifications

Analog inputs

• Number of balanced inputs	6 (Phoenix 3,5 mm connector)
• Number of unbalanced inputs	1 (RCA connector)
• Analog gain (manually adjustable)	0 dB - 30 dB
• Nominal sensitivity (balanced input) MIV-HI	-58 dBu (1mV$_{rms}$)
• Nominal sensitivity (balanced input)MIV-LO	-34 dBu (15mV$_{rms}$)
• Nominal sensitivity (balanced input)MIV-HI	-19 dBu (87mV$_{rms}$)
• Phantom power (Activating at DIP-Switch	+48 Volt stabilized, very low noise
• Balanced input impedance (Phoenix)	5 kΩ @ 1 kHz
• Unbalanced input impedance (RCA)	33 kΩ @ 1 kHz
• Balanced input CMRR	<60 dB @ 1 kHz
• On Mic (20 - 20 kHz weighted) Rs =150 Ohm	-126 dBV
• Frequency response MIC (-3dB)	160 Hz bis 20 kHz
• Frequency response LINE (-3dB)	40 Hz bis 20 kHz
• Input protections	radio frequency interference (RFI) transient voltage spikes external overvoltage

Analog outputs

• Number of balanced outputs	6 (Phoenix 3,5 mm connector)
• Number of unbalanced outputs	1 (RCA connector)
• Dynamik range	120 dB (“A” weighted)
• Residual noise of output driver	-100 dBu (20 Hz ÷ 20 kHz)
• Nominal level (balanced output)	0 dBu (7,75 V$_{rms}$)
• Maximum level (balanced output)	20 dBu (7,75 V$_{rms}$)
• Balanced output impedance	140 Ω
• Unbalanced output impedance	70 Ω
• Ausgangsschutz	short circuits Overvoltage protection

Analog to digital converter

• Bit resolution	24-bit
• Converter type	sigma delta
• sampling frequency (Fs)	48 kHz
• Signal to noise ratio (SNR)	104 dB (“A” weighted @ 48 kHz)
• Dynamic range	104 dB (-60 dB$_{FS}$)
• Total harmonic distortion (THD)	-93 dB (1 kHz, -1 dB$_{FS}$)
• Oversampling factor	512 Fs

Digital Signal Processor

• DSP	32-bit / 40-bit, Floating point 150 MHz - 6,6 ns cycling rate Super Harvard Architecture 900 MFLOPS 1Mbits SRAM, two-channel

Digital to analog converter

• Bit resolution	24-bit
• Converter type	sigma delta
• Sampling frequency (Fs)	48 kHz
• Signal to noise ratio (SNR)	112 dB (“A” weighted @ 48 kHz)
• Dynamic range	112 dB (-60 dB$_{FS}$)
• Total harmonic distortion (THD)	-94 dB (1 kHz, 0 dB$_{FS}$)
• Delay time	0,58 ms
• Oversampling factor	512 Fs

Digital Processing

Input

• Highpass/lowpass filter (anti hum, anti rumble and more)	Butterworth filter type with adjustable cutting frequency and selectable slope 12/24/48 dB/Octave
• 5 parametric equalizuer PEQ	Frequency [20 Hz ÷ 20 kHz] Gain [-15 dB ÷ 15 dB] Bandwidth [0,01 ÷ 6 oct]
• Noise Gate	Threshold [-80 dB_{FS} ÷ 0 dB_{FS}] Hold time [100 ms ÷ 10 s]
• Automix function	Hold time [100 ms ÷ 5000 ms] Attenuation [-60 dB ÷ 0 dB] NOM Gain (increase post gain of -3dB for each doubling of opened automix channels) Max. opened channels [1 ÷ 6]
• Volume control	[-100 dB ÷ 10 dB]

Routing Matrix:

• Matrix size	6 inputs / 4 outputs
• Matix crosspoint level adjusting	[-60 dB ÷ 10 dB]

Audio output

• Easy adjustment of the sound columns	AT-N series Live SM series
• 31 bands graphic equalizer	Gain [-12 dB ÷ 12 dB]
• Dynamic compressor range	Threshold [-90 dB_{FS} ÷ 20 dB_{FS}] Ratio [R=1:1 ÷ R=20:1] Post Gain [-20 dB ÷ 20 dB] Attack Time [1 ms ÷ 250 ms] Release Time [10 ms ÷ 2500 ms]
• Limiter	Threshold fixed at 0 dB_{FS}
• Delay	[0 m ÷ 35 m], [0 ms ÷ 100 ms]
• Phase control	[0°, 180°]
• Output level	[-100 dB ÷ 10 dB]
• Master level	[-100 dB ÷ 10 dB]

Data connections

• Rear panel	ETHERNET 802.3 Wi-Fi 802.11 USB 2.0

Display

• LCD	20 characters x 2 lines

PSU Module

• AC range	230 VAC ± 10%

- Input frequency — 47 Hz to 67 Hz
- Power consumption — max. 33 W
- Analog voltages — +48 VDC, ±15 VDC, +5 VDC
- Digital voltages — +3,3 VDC, +1,2 VDC
- Voltage regulators — linear type (no switching noise)

Dimensions and weight

- Height — 84 mm
- Width — 484 mm
- Depth — 340 mm + 60 mm connector

- Weight — 5.6 kg (1x480W)
  6.8 kg (2x320W and 2x480W)
  12 kg (1x150 W and 1x240 W)
  13.5 kg (2x150 W)

Temperature range

- Indoor — 0°C to 40°C (32°F bis 102°F)

Certifications

- AES48-2005 grounding scheme
- 2002/95/EC
- CE

Consulting • Planning • Developing • Assembly of electroacoustic sound systems
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