

**konnekt 24D**



Mic/Inst Input      Mic/Inst Input      Headphone Outputs



ADAT and TOS Link In/Out      Power Input      FireWire connections      MIDI In/Out      Digital S/PDIF      Monitor/Line Outputs      Line Inputs

**konnekt live**



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**Digital Inputs and Outputs**

Connector (S/PDIF)	RCA Phono, 75 Ohm
Formats (S/PDIF and TosLink)	S/PDIF (24 bit), IEC 958, Pro-status bits
Connector (ADAT® or TosLink)	Optical Pipe
Format (ADAT®)	8-ch. @ 48 kHz, 4-ch. SMUX @ 96 kHz
Firewire	IEEE 1394a, S400, IEC 61883
Digital IO Engine	TC DICE II, handling all IO formats

**Clock and Jitter**

Internal/External Sample Rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz / 43 to 193 kHz, jitter rejection at all rates
Jitter Rejection Engine	JET™ technology in TC DICE II
Jitter Rejection Filter	<-3 dB @ 10 Hz, <-100 dB @ 600 Hz
DIO Interface Jitter	< 1 ns peak, BW: 700 Hz to 100 kHz
AD/DA Conversion Jitter	< 42 ps RMS, BW: 100 Hz to 40 kHz
Digital Output Phase (stand alone and across network)	< 0.5 % of sample period
Input Slip Sample Tolerance (all DIs)	+50 % to -50 % of sample period
Processing Delay DIO @ 96/48 kHz	0.15/0.3 ms
Frequency Response DIO	DC to 23.9 kHz ± 0.01 dB @ 48 kHz

**Line Inputs Channel 1, 2, 3, 4**

Connectors	1/4" Phone Jack (balanced)
Impedance, Bal/Unbal	20 kOhm/25 kOhm
Full Scale Input Level @ 0 dBFS	+13 dBu
THD+N	< -100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR	>111 dB(A), >108 dB, 20 Hz to 20 kHz
Freq. Response	+0/-0.5 dB, 20 Hz to 20 kHz
Crosstalk	< -100 dB, 20 Hz to 20 kHz

**ADC**

A to D Conversion	24 bit, 128 x oversampling bitstream
A to D Delay	0.68 ms / 0.63 ms @ 44.1 kHz / 48 kHz

**Mic. Inputs Channel 1, 2**

Connectors	Neutrik Combo (XLR)
Sensitivity Full Range Pad on/off	-10/+10 dBu <-> -52/ -32 dBu
Total Preamp gain	62 dB
Impedance, Pad on/off	2000/1300 ohm
NF @ Rg = 150 ohm, Max. Gain	< 4 dB
EIN @ Rg = 150 ohm, Max. Gain	< -127 dBu
THD+N, Min. Gain	< -100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR, Min. Gain	>109 dB(A), >106 dB, 20 Hz to 20 kHz

**Inst. Inputs Ch. 1, 2**

Connectors	Neutrik Combo (1/4" Phone Jack)
Sensitivity Range	-25 dBu <-> +17 dBu
Total Preamp gain	42 dB
Impedance	1 Mohm
THD+N, Min. Gain	< -100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR, Min. Gain	>107 dB(A), >104 dB, 20 Hz to 20 kHz
Crosstalk	< -100 dB, 20 Hz to 20 kHz

**Monitor/Line Outputs Ch. 1, 2, 3, 4**

Connectors	1/4" Phone Jack. Ground sensing design (Balanced/unbalanced digital output switch *)
Impedance	100 Ohm
Level Range (Ch. 1,2)	-40 dBu <-> +12 dBu (analog gain scale)
Fixed Full Scale Range (Ch. 3,4)	+12 dBu
THD+N	< -94 dB (0.002%) @ 1 kHz, -1 dBFS
SNR	>111 dB(A), >108 dB, 20 Hz to 20 kHz
Freq. Response	< -100 dB, 20 Hz to 20 kHz
Crosstalk	< -100 dB, 20 Hz to 20 kHz

**DAC**

D to A Conversion	24 bit, 128 x oversampling bitstream
D to A Delay	0.70 ms / 0.65 ms @ 44.1 kHz / 48 kHz

**Headphones Output Ch. 1, 2**

Connectors	2 x 1/4" Phone Jack (Stereo)
Impedance	80 Ohm
Gain Level Range	-80 dBu <-> +16 dBu @ 300 ohms (analog gain scale)
THD+N	< -94 dB (0.002%) @ 1 kHz, -1 dBFS
SNR	>103 dB(A), > 100 dB, 20 Hz to 20 kHz
Freq. Response	+0/-0.1 dB, 20 Hz to 20 kHz
Crosstalk	< -100 dB, 20 Hz to 20 kHz
Power @ 40 Ohm Load	200mW
Power @ 600 Ohm Load	93mW

**EMC**

Complies With	EN 55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B
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**Safety**

Certified To	IEC 60065, EN 60065, UL6500 and CSA E60065 CSA FILE #LR108093
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**Environment**

Operating Temperature	32° F to 122° F (0° C to 50° C)
Storage Temperature	-22° F to 167° F (-30° C to 70° C)
Humidity	Max. 90 % non-condensing

**Control Interface**

MIDI	In/Out: 5 Pin DIN
Firewire (DAW)	IEEE 1394a, IEC 61883

**General**

Dimensions	9.5" x 1.75" x 9" (241.5 x 44 x 226 mm)
Weight	3.3 lb. (1.5 kg)
Finish	Acrylic front panel. Plated and coated steel back plate. Anodized aluminum cover.

**PPM Meter (Ch. 1,2)**

Power Supply (Included)	3 LED's pr. channel 12V DC, Adapter for 90 to 240 VAC, 50 to 60 Hz (auto select)
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**Firewire Bus Powered**

Power Consumption	8 to 30 VDC
Warranty Parts and labor	<14 W 1 year

\* Konnekt LIVE only