



Sphinx 2

EXTREME AUDIO CONVERTER

Jointly developed between Merging Technologies and Digital Audio Denmark and utilizing the very latest in converter chip technology, Sphinx 2 represents one of the most advanced and sonically transparent audio converters ever produced.

Offering 8 channels of DA and AD conversion in a single unit and capable of operating in PCM up to 192kHz, 1-bit DSD and DXD formats for SACD production, Sphinx 2 represents a significant technological achievement and yet is the most cost-effective 8 channel PCM/DSD/DXD converter available today.

Sphinx 2 is the ideal audio interface for the 8 or 16 channel Pyramix DSD digital audio workstation and combined gives you the ability to record, edit, process master and author all your audio projects for CD, DDP, DVD, DVD-A and SACD.

Key Features:

- 8 channel PCM, DSD, and DXD audio converter
- PCM sample-rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192, 352.8 kHz
- DSD sample-rates: 2.8224 MHz and 5.6448 MHz (64 fs and 128 fs) (1-bit)
- DXD sample-rates: 352.8 kHz (24-bit)
- 7 slots for optional DADI/O expansion modules
- Audio interfaces: 4 channel D/A, AES/EBU, S/PDIF, TDIF, ADAT and PT Mix 24, SDIF3 and MADI
- Remote controlled via RS422
- MADI Interface for single cable connection to Pyramix





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DADman remote control PC program:

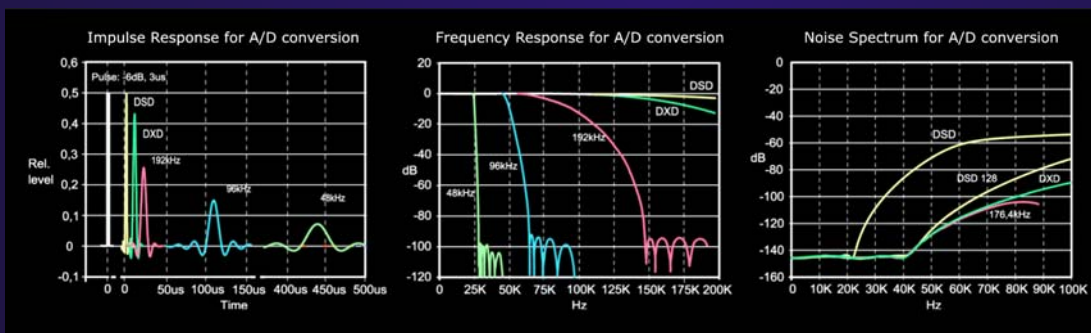
Sphynx 2 can be controlled via the DADman remote control program for PC. By using DADman up-to 256 different Digital Audio Denmark audio converters can be operated and supervised from one PC. DADman communicates via the PC Com ports, or virtual Com ports.



For connecting the RS-422 port of the Sphynx 2 to a standard PC a variety of interface converter boxes are available i.e. RS-232 to RS-422, USB to one or more RS-422 ports, or Ethernet to RS-422.

DADman also serves as a tool for managing the set-up of more converters and storing the individual setting for easy set-up and configuration. DADman can assign a window for each converter detected, and assign a unit ID label, which is read out at the led display at the converter front panel.

A/D CONVERSION, LINE INPUT		FREQUENCY RESPONSE A/D AND D/A Fs	
PCM resolution	24 bit	Fs 44.1kHz,	20-20 kHz: ±0.1dB
		Fs 48kHz,	20-21.5 kHz: ±0.1dB
PCM sample-rates	44.1, 48, 88.2, 96, 176.4, 192 kHz	Fs 88.2kHz,	20-39 kHz: ±0.1dB
DSD sample-rates	2.8224 & 5.6448 MHz (64 & 128 fs)	Fs 96kHz,	20-40 kHz: ±0.1dB
DXD sample-rates	24 bit at 352.8 kHz	Fs 176.4Hz,	20-40 kHz: ±0.1dB
Dither	Psycho acoustic, 16, 18, 20 bit	Fs 192kHz,	20-40 kHz: ±0.1dB
Dynamic range (A)	> 119 dB	Fs DSD 64 fs	20-28 kHz: ±0.1dB
THD+N (A)	< -104 dBfs	Fs DSD 128 fs	20-35 kHz: ±0.1dB
Cross talk	< -120 dB	Fs DXD	20-40 kHz: ±0.1dB
Input impedance	> 12 kOhm		
Max. input level	+12 to 30 dBu, adjustable	DIGITAL AUDIO INPUTS AND OUTPUTS	
Connectors	XLR (pin 2 hot)	Expansion modules	7 slots for DAD/I/O modules
Processing delay	< 1.0 ms	SYNCHRONIZATION	
		AES11	XLR, 44.1 to 96 kHz
		Word clock sync in/out	BNC, 44.1 to 48kHz
		Super clock sync in/out	BNC, 11.2896 to 12.288 MHz
		Selection for double speed	44.1 to 48kHz/88.2 to 96kHz
		Video sync in	PAL, NTSC, SECAM
D/A CONVERSION, LINE OUTPUT (Optional).		GENERAL	
PCM resolution	24 bit	Control interface:	RS-422 (up to 100 meter)
PCM sample-rates	44.1, 48, 88.2, 96, 176.4, 192 kHz	EMC, complies with:	EN 50082, and EN 50022
DSD sample-rates	2.8224 & 5.6448 MHz (64 & 128 fs)	Operating temperature:	+5 to 45 C
DXD sample-rate	24 bit at 352.8 kHz	Dimensions (w,h,d):	19", 2U, 285 mm
Dynamic range (A)	> 117 dB	Weight:	5.8 kg
THD+N (A)	< -93 dB	Mains voltage:	90 - 260 VAC
Cross talk	< -120 dB	Power consumption:	Max. 45 Watts
Output impedance	< 40 Ohm		
Max. output level	+12 to 27 dBu, adjustable		
Connectors	XLR (pin 2 hot)		
Processing delay	< 1.0 ms		



DXD (Digital eXtreme Definition)

To bridge the studio technology of today towards the essential DSD/SA-CD format, a new processing format Digital eXtreme Definition has been developed, which is fully acknowledged by Sony and Philips for SACD production.

DXD is an high sampling rate and multi-bit processing format, that preserves the audio quality of DSD in terms of pulse response and bandwidth compared to conventional PCM at e.g. 192kHz sampling. DXD is an open non-proprietary format and up-to 8 channels can be interfaced in a single MAD1 link.