

CEC.

SUPERLINK and VOLUME CONTROL compatible

# D/A Converter DA3N

Supports various digital inputs including USB and CEC's proprietary SUPERLINK.

Multi-function with Master-clock input, headphone output and variable analog output.



HAND-MADE IN JAPAN

■ Rich enough! Various digital inputs AND analog outputs!

In addition to the BNC terminals for SUPERLINK connection to CEC's latest Belt-drive CD Transports, TL3N as well as TL1N, a traditional D-Sub-9pin terminal is incorporated.

All kind of connection for the SUPERLINK are now available on the DA3N.

The DA3N also offers input terminal for outside master clock upon SUPERLINK connection. Perfect SUPERLINK connection is performed when high precision lock generator is connected.

A total of 9 connections are available: SUPERLINK connection; 2 types (4-BNC terminals and one 9-pin D-sub connection), One each AES/EBU and COAXIAL connection, 3 Optical connections (one at front and two at rear panel) and 2 USB connections (one at front and the other at rear panel).



■ SUPERLINK

There are two traditional ways of digital signal transmission; SPDIF (SONY PHILIPS Digital Inter Face) and AES/EBU (Audio Engineering Society/ European Broadcasting Union) while there are four different digital signals; Master clock, Bit clock, L/R clock and DATA signals.

These four digital signals are transmitted through one cable both at traditional ways accounting for the possibility of potential deterioration caused by one cable with four-signal system (SPDIF, AES/EBU).

CEC offers new connection; SUPERLINK using four separate high quality 75 ohm BNC cables in addition to conventional 9-pin D-sub connection. The 4 different digital signals are never combined in one cable and kept independent from CD transport to D/A converter.

The quality of the input music signal is a major factor in digital music reproduction. As the signal is transmitted through the SUPERLINK system are synchronized with the servomechanism-synchronizing clock, which is generated from the DA3N's master clock, they are unaffected by jitter-digital noises caused by time lags in the signals, which tend to affect sound dynamics and listener immersion.

■ ESS DAC CHIP

The conversion from digital to analog signal is performed by the ESS Hyper stream DAC chip ES9008 which is compatible up to 24-bit/192kHz signals. In addition to the ultra- high preciseness of conversion the ES9008 is proud of its warm musicality.

DA3N offers two different digital filters, "FLAT", a standard filter with super

linear frequency response to 20kHz, and "PULSE", a ringing-free pulse-optimized filter with a softer roll-off below 20kHz. You may select easily by remote control hand-set.

■ VARIOUS ANALOG OUTPUTS

Two different outputs are available with DA3N.

Conventional type of output for connection with preamplifier and/or pre-main amplifier; output level is FIXED, and also a VARIABLE output which will enable the connection with power amplifier, the sound level is controlled by DA3N's volume control.

Both balanced and unbalanced types of connections are available at both FIXED and VARIABLE output stages.

Incorporating the high performance TI headphone amplifier circuit the DA3N can be used even as a high performance headphone amplifier.

■ LARGE DISPLAY

A large VFD monitor indicates the input status, the input sampling frequency, output level (when volume is controlled) and filter condition.



Specifications

Audio	
Digital inputs/ sampling frequency	USB(2.0) Type B x 1, USB(2.0) Type mini B x 1 / 32 to 96kHz AES/EBU x 1 / 32 to 192kHz COAXIAL x 1 / 32 to 192kHz OPTICAL TOS x 2, Round mini x 1 / 32 to 96kHz SUPERLINK(BNC) x 1, SUPERLINK(D-SUB) x 1 / 44.1kHz
Master clock input	BNC x 1: 44.1kHz available for SUPERLINK only
DAC Chip	ESS ES9008 x 1
Digital filter	Switchable between FLAT and PULSE
Fixed analog output	Balanced XLR (2-pin hot) x 1: 4Vrms Unbalanced RCA x 1: 2Vrms
Variable analog output	Balanced XLR (2-pin hot) x 1: Max. 4Vrms Unbalanced RCA x 1: Max. 2Vrms
Headphone output	6.3mm x 1

>USB input not compatible with 88.2kHz.

>Design and specification are subject to change without notice.

Frequency response	20Hz to 20kHz, ±0.1dB
S/N ratio	110dB
Channel balance	105dB, 1kHz/0dB
THD	0.004%, 1kHz/0dB
General	
Power supply	AC120V/230V, 50/60Hz specified on rear panel
Power consumption	17watts
Dimensions	435(W) x 340(D) x 109(H)mm (incl. legs, terminals and knobs)
Weight	Approx. 9kg (net)
Accessories	AC power cable, BNC cable x 4, Remote control hand set, Owner's manual
Color	Silver
EAN Code	49 92287 14940 3