LYRA WEBSITE DATA

DESCRIPTION

The Lyra is a fully digital desktop production mixer. Its concept originates from heavy investigations among end users and distributors looking for a versatile compact small universal desktop mixer.
The core of the Lyra is a sophisticated DSP engine. This processing engine involves the latest developments in DSP technology by Texas Instruments.
An intense cooperation between T.I. and D&R has resulted in a digital audio mixer offering tremendous DSP power and a superb sonic quality.
Although the Lyra is a digital console, it is operated with the same comfort as a conventional analog production mixer.
No fundamental concessions have been made towards reliability, high speed controller-response and system stability.
Apart from that there is the unique capability to control Lyra's functions over the Internet

FEATURES

- Digital Desktop mixer
- Reporter desk for standalone and/or network applications
- Small edit suites
- Remote controllable audio work places via Internet/Ethernet/CobraNet
- Mobile applications
- Two fader remotes available (4 or 8 faders in one remote unit)

- INPUTS:
- 6x stereo Dig inputs (AES3)
- 1x stereo dig input (s/p-dif optical or coax)
- 6x stereo balanced line inputs
- 1x stereo unbalanced line input
- 4x balanced mic inputs + Inserts

- OUTPUTS
- 6x stereo digital outputs AES3
- 1x stereo digital output s/p-dif optical + coax
- 1x stereo Program analog
- 1x stereo SUB analog
- 1x stereo CUE analog
- 1x stereo AUX analog
- 1x stereo CRM analog
- 2x stereo PHONES analog

SPECIFICATIONS

MIC inputs
: Electronically balanced
: Input impedance 2k Ohm
: Noise -128dBr (60db gain range)
: Input sensitivity -70dBu up to +20dBu (PAD) (INA 163UA)
: Total harmonic Distortion+Noise 0,002% at 1kHz G=100
: CMRR MIC inputs: 85dB @ 1kHz, maximum gain
: Frequency response 20Hz - 20kHz ± 0.1dBr (sample rate 48kHz)

: Crosstalk 1kHz < -115dBr
: Phantom is switchable +48 Volts

Line inputs
: Electronically balanced
: Input impedance 10k Ohm
: Input sensitivity +6dBu, maximum input +26dBu (+/- 20dB gain range).
: Dynamic Range 118dB (AD converter PCM 1804)
: Total harmonic Distortion+Noise 0,004% at 1kHz G=100
: CMRR Line inputs: 30dB @ 1 kHz
: Frequency response 20Hz - 20kHz ± 0.1dBr (sample rate 48kHz)
: Crosstalk 1kHz < -120dBr

Line Outputs
: Electronically balanced
: Output impedance 50 Ohm.
: Nominal output level +4dBu / -10dBv,balanced (optional transformers)
: Dynamic Range 118dB (AD converter PCM4104)
: Total Harmonic Distortion plus Noise 0,001%
: Frequency response 20Hz - 20kHz ± 0.1dBr (sample rate 48kHz)

Phones Output
: Stereo unbalanced
: Output impedance 5R Ohm.
: Nominal output level +6dBu, maximum output +26dBu
: Max. Output power, 1W into 32R Ohm, 80mW into 600R Ohm
: Dynamic Range 114dB (AD converter CS4385)
: Frequency response 20Hz - 20kHz ± 0.1dBr (sample rate 48kHz)

Digital Inputs
: AES/EBU (AES3) or S/P-DIF Transformer balanced
: Input Impedance: 110R Ohm / 75R Ohm (jumper setting)
: Differential input sensitivity 200mV
: Dynamic Range 112dB (AD converter PCM 1804)
: Total Harmonic Distortion plus Noise (sample rate converter) -105dBfs (0.001%)
: Sampling rate up to 192kHz

Digital outputs
: AES/EBU (AES3) or S/P-DIF
: 112db Dynamic range (DAC CS8420)
: Output Impedance: 110 Ohm
: Output level: AES3 2-5 Vpp
: Clock output 75 Ohm TTL
: 24 bit, 32kHz, 44.1kHz or 48kHz
: Total Harmonic Distortion plus Noise -102dB

GPIOs
: All GPO's are by opto isolated relays able to handle a maximum of 50V at 200mA or 5V TTL 560R (8mA) out
: All GPI's have a 5V TTL 100kOhm circuitry. GPIO-MIC has a 5V/56Ohm LED driver circuit

EQ
is 3 band, any band can perform one of the following functions/specifications:
Low : +/- 18 dB (120Hz center shelving, Q: 0.1 to 10 variable.
MID : +/- 18 dB (1200Hz center bell, Q: 0.1 to 10 variable
High : +/- 18 dB (12000Hz shelving, Q: 0.1 to 10 variable

DYNAMICS
: Interactive one knob control of threshold, compression ratio, expander ratio
as well as attack and release times.

Processing
: 32 bit floating point
Channels
: 8 stereo channels per DSP card.

OVERALL
Level : 0dBu=0.775Vrms
: 0dB internal = -20 dBFs.
Clock
: Sample rate: 32kHz, 44.1kHz, 48kHz, +/- 20ppm (internally synchronized)
: External sync: 32kHz, 44.1kHz, 48kHz +/- 50ppm
: Jitter max 150pSec

Power supply
: Internally switched power supply.
: 100-240 Volt, 50/60Hz (1.5 A Max)

VIDEO
https://youtu.be/vhAJA1ZYoAo

DOWNLOADS
http://www.d-r.nl/assets/lyra-brochure-2015.pdf
http://www.d-r.nl/assets/lyra-manual-1.6.pdf
http://www.d-r.nl/assets/lyra-software.zip