LE-2nM

Integrated SD/HD-SDI Legaliser with Composite, RGB and YUV colour space correction

RoHS Compliant

eyeheight
08/09

Description

The LE-2nM is a fully comprehensive SD/HD-SDI legaliser housing in a simple enclosure and controllable by either a Java "soft panel" (Supplied) or a 1RU FP-9 Flexi-Panel (not supplied). This system legalises the incoming signal in the colour space that the user selects, RGB, YUV, composite (PAL or NTSC) or RGB + composite combined.

The unit also provides "clobbeRing", luma overshoot and undershoot suppression, and also gain, lift and hue controls. All common legalisation standards can be corrected.

The LE-2nM also has an indicate output which will show the user where, on the picture, any correction of the signal is being carried out.
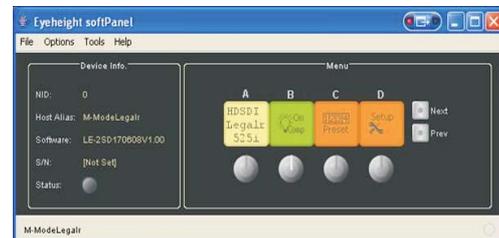
System

Schematic

softPanel

Main Features

Complete ready to go legaliser system with control by Java Application which runs on PC or Mac.

Provides legalisation of the SD/HD-SDI input signal with full 10 bit processing throughout.

Composite, YUV and RGB colour spaces and combined RGB+composite with two independent outputs for "Legalise" and user controllable "Legal/Indicate".

Adjustable clipping levels and soft clipping knee levels.

Integral luma and chroma gain, black level adjustment & hue rotation.
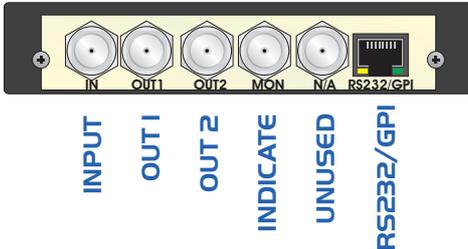
EBU-R 2003 standard SDI legalisation settings and 7.5 IRE or 0 IRE Pedestal with 6 user memories and common presets.

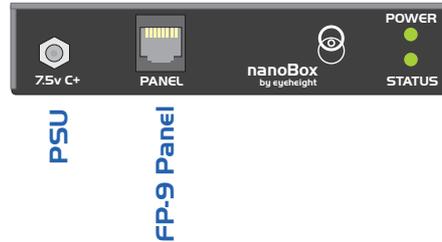Unique severity display mode on monitoring output.

2 GPI inputs call up user memories.

Disclaimer: The information on the Tech Sheet is, to our knowledge, accurate and Complete, but the specification can change at any time and therefore may not always be up to date.

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Rear Connections

| IN | OUT1 | OUT2 | MON | N/A | RS232/GPI |

INPUT — OUT 1 — OUT 2 — INDICATE — UNUSED — RS232/GPI

Front Connections

7.5v C+ | PANEL | nanoBox by eyeheight | POWER | STATUS

PSU — FP-9 Panel

Technical Specification

When in SDI mode:

SDI Inputs (270Mbit, 800mV)	1 Input (SDI) to SMPTE 259M.
SDI Outputs (270Mbit, 800mV)	3 Outputs (SDI) to SMPTE 259M. (1 of these outputs as Monitoring).
SDI cable equalisation	At least 100m of appropriate cable. Return Loss better than 15dB.

When in HD-SDI mode:

HD-SDI Inputs (1.485Gb, 800mV)	1 Input (HD-SDI) to SMPTE 292M.
HD-SDI Outputs (1.485Gb, 800mV)	3 Outputs (HD-SDI) to SMPTE 292M. (1 of these outputs as Monitoring).
HD-SDI cable equalisation	At least 100m of appropriate cable. Return Loss better than 15dB.
RS232	For data interface.

Ancillary Data	Passes all ancillary data in vertical and horizontal blanking intervals without modification except for CRC recalculation.
GPI's	2 off GPI. Short to ground to activate. Recall of 2 user memories.

Control System	Supplied Java application or by FP-9 1RU Control Panel. (User MUST chose before purchase-Factory configuration)
Chassis	Eyeheight nanoBox, NB-9 chassis.
Rack Mounting	A Rack mounting kit is available fitting 3 units in a 1RU space.
Line Standards SD-SDI	625 and 525
HD-SDI	1080 -23.98psf/24psf/23.98p/24p/ 25p/50i/29.97p/30p/59.94i/60i. 720p -23.98/24/25/29.97/30/50/59.94/60.
Delay	Less than10µs.
Power Supply	100-240V AC plug in "World Compatible" adapter. Less than 30W power
Dimensions	Width 133 mm Height 33 mm Depth 290 mm(inc BNC's)
Weight	Less than1kg
Temperature	<25°C ambient, <55°C internal.
Humidity	Recommend 40 to 55% Limits 20 to 80%.

Ordering Information

Product Code: **LE-2nM** multiDef Legaliser System.

Options:

FP-9	1RU Control Panel
RR-9E	Remote Back Cover for FP-9
RN-9	Rack mount for 1-3 LE-2nM.

Associated Equipment

LE-2nS SDI Legaliser System.

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