

# NERO4 UHD/ 4K UHD Power



## NERO4 UHD/



# 4K ULTRA HD

### Premium movie experience

Enjoy the clarity and realism of the top of the line of SIM2's single-chip DLP®-based projectors: UHD (Ultra High Definition) images with SIM2's all-new NERO4 UHD projector. Featuring Texas Instruments' DLP® 4K UHD chipset, NERO4 UHD delivers exceptional 4K images, high brightness (up to 5000 ANSI lumens light output in hi-bri mode) and an accurate, vibrant color palette. The NERO4 UHD is available in a black glass cabinet with matte black accents.

### Key Features

- Super High Definition Optics
- DLP technology for a true "Hollywood" lifetime picture quality experience
- 1-chip DMD UHD, 4K UHD Image resolution
- Full HDR Capability
- New, high-precision telecentric optical path
- High Brightness: up to 5000 Ansi Lumens
- Full color volume adjustments
- Zoom & Focus position encoders
- SIM2 Perfect Fit Feature
- Adjustable iris with memory

SIM2 has consistently set new standards of performance and design in projection, allied with unprecedented innovation. The all-new NERO4 UHD is no exception.

The NERO4 UHD projector delivers class-leading picture quality through the partnership of the latest **4K UHD DLP® chipset** from Texas Instruments, super high-precision and resolution optics and SIM2's advanced video processing technology, for a lucid and colorful viewing experience. DLP® from Texas Instruments is Hollywood's choice of technology for movie theaters and conveys extraordinary image quality that brings out the smallest details - even during high-speed sequences – with assured, long-lasting performance.

A new high-power **450W lamp** enables NERO4 UHD to provide up to **5000 ANSI-lumens** on-screen.

In order to obtain the best projected image accuracy, a delicate balance is required between the light engine, the DLP® chipset and the video processing electronics. Building on its



heritage of high-end light engine design, SIM2 has invested heavily in the development of a high-precision telecentric optical system. The **pure-glass lens** provides an unprecedented resolution of **93 lines per millimeter** to guarantee exceptional on-screen clarity. Special coatings have been applied to the optical components to further enhance image and color performance. Installation aids include fully motorized zoom and focus, plus optical **lens shift** to adjust the position of the image up to **75% vertically** and **30% horizontally**.

With NERO4 UHD projector the “widescreen” ratio is easier to achieve than ever thanks to SIM2’s Perfect Fit function. Zoom and focus positioning can be, in fact, stored for 10 different picture formats, from standard 16:9 to 2.40:1 aspect ratio (Letterbox or Anamorphic). Once set up, the Lens Memory is recalled at the touch of a button; the image is automatically adjusted to fit the screen format preference without the an external anamorphic lens.

To aid calibration, the NERO4 UHD projector

features SIM2’s advanced Live Colors Calibration 2.0 software that allows professional calibration of all projection parameters such as complete adjustment of the primary, secondary and white point color coordinates. NERO4’s crystal-glass cabinet adds a unique design touch to suit any room style.

**Designed for use with medium / large Home Theater and Hi-Graphics installations.**

#### **HDR CAPABLE**

NERO4 UHD is not only a HDR-capable (accepting an HDR-encoded signal via HDMI 2.0a, HDCP 2.2) but it presents a full set of features dedicated to HDR picture display. It offers automatic metadata recognition and an advanced calibration mode, with 4 presets to automatically fit screen sizes from 100 to 160 inches. The metadata describe the characteristics of the image being displayed (peak luminance, color gamut, etc.) and the

NERO4 UHD detects them and automatically enables its HDR mode. Nonetheless, it adjusts the image data through a process called tone mapping, for softening the clipping of high lights.

In HDR mode, the projector has 4 presets that allow customers to obtain the standard EOTF (Electro Optical Transfer Function) SMPTE S2084 behavior, with which HDR video content is packaged, suitable for 4 different types of installation, for a correct playback of HDR video materials and simplified installation. The NERO4 UHD has been designed for this behavior to be as faithful as possible to the ideal behavior it needs to have. In addition, 4K UHD resolution, 12 bit processing and YCC 4:4:4 color coding, combined with HDR technology, allow the NERO4 to deliver unbeatable image quality. By means of its high peak luminance, inky blacks, and vibrant color gamut, NERO4 UHD provides images where every scene is replicated with extreme realism, just as the human visual system would perceive it in the real world.

Feature	NERO 4
DLP® Type and image resolution:	1-chip DMD 0.66" UHD - 4K UHD (3840x2160 pixels): 8.3M pixels
Dynamic Range:	HDR compliant with dedicated Display Modes and 4 presets to cover screen sizes from 100 to 160"
Light Source and brightness <sup>(1)</sup> :	450W lamp (dimable) - up to 5.000 Ansi Lumens (in 2D mode)
Adjustable iris	● 12 apertures memorized
SIM2 Perfect Fit	●
Lens:	Super high definition pure-glass lens with telecentric optics
Lens resolution:	93 lines per millimeter
Lens Throw ratio (+/-5%):	1.36-2.68:1
Zoom & Focus:	Motorized with position encoders
Optical Shift:	+/-75% Vertical, +/- 30% Horizontal
INPUTS/OUTPUTS:	2x HDMI (v.1.4a - HDCP 1.4) - 1x HDMI (v.2.0a - HDCP 2.2) - 1x HDMI audio/video out (v.1.4a - HDCP 1.4) - 1x Display Port 1.2 - 1x VGA / 3x YCrCb Component - 1x USB (A type - FW UpGrade) - 1x RJ45 - 1x RS232 (D-sub 9 pin) - 2x IR receivers - 1x wired IR receiver - 2x 12V 200 mA output
Horizontal & Vertical scan freq.	15-91 KHz/24-120 Hz
UHD	@ 24/25/30/50/60/70/72/75 Hz
Mains voltage range	100-240 +/-10% (50/60 Hz)
Projector weight:	32 Kg. / 70.5 lbs
Projector dimensions (WxHxD):	528 x 215 x 582 mm (20.8" x 8.5" x 22.9")

<sup>(1)</sup> This is the typical projector brightness specification found in most sales literature. This measurement allows for direct comparison with other manufacturer's projectors. Measurements are taken in a totally dark test room with brand new lamp at full power, lamp's native white color temperature, internal test pattern (full white) and in compliance with ANSI IT7.228-1997 specification.

<sup>(2)</sup> Lamp life: the hours quoted have been measured in a lab under ideal test conditions. Lamp life varies depending on usage conditions and the surrounding environment. This is an average value that cannot be guaranteed and is not protected by warranty.

NERO 4 - vers. 4 - Due to constant product development, specifications are subject to change without notice.