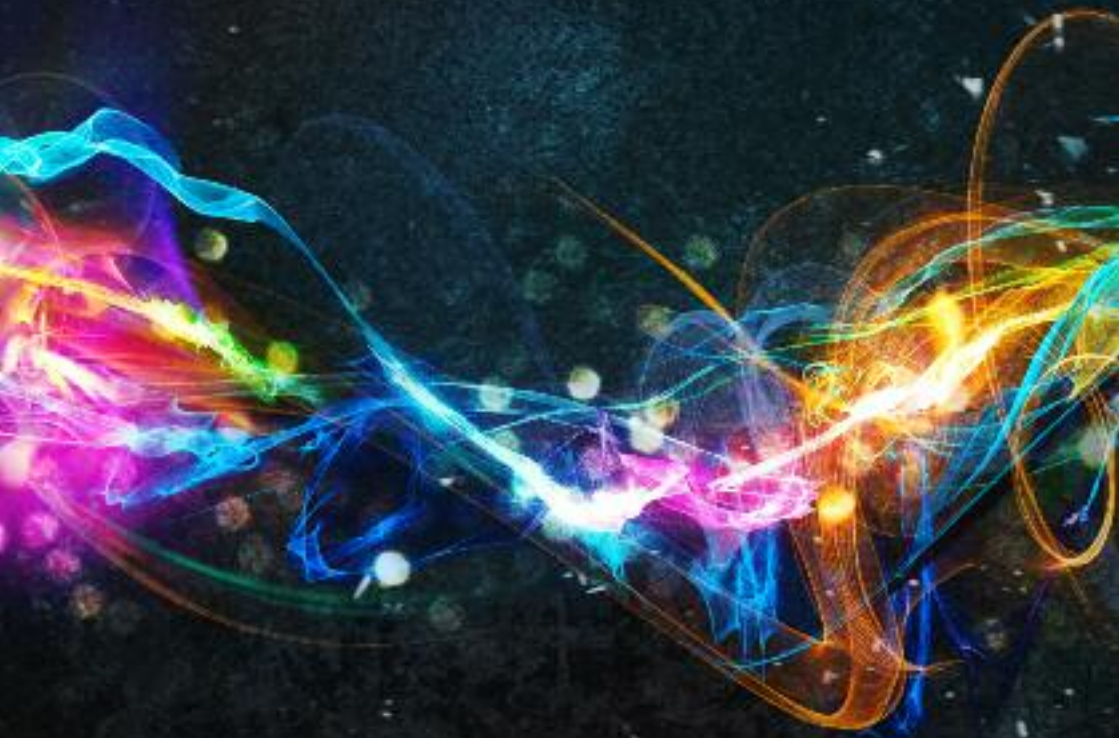
Hugo SR

Shaping The Future Of Cinema

The World's First Truly Engineered Screen For Laser Projection



harkness®
PREMIUM CINEMA TECHNOLOGY

The future of cinema screen technology is here

Whilst the adoption of all forms of laser projection in the cinema industry has been steadily increasing for a number of years, screen technology has been a step behind with existing 4th generation screens often retrofitted in to laser deployments to help create suitable solutions. That changes with Hugo SR.

The result of more than five years of research and development alongside projector manufacturers, educational institutes, exhibition and the Hollywood community, Hugo SR is designed to support and leverage the benefits of all types of laser projection.

Engineered for laser projection



Embedded speckle reduction technology

Laser speckle, most visible with RGB projectors (but also present, although less visible with other projection technologies) is a significant concern for exhibitors looking to leverage laser projection. Hugo has been engineered to significantly reduce visible speckle by up to 30% compared to traditional high gain silver and white screen surfaces.

This dramatic reduction allows exhibitors to deploy higher gain surfaces alongside RGB projectors with greater assurance that laser speckle will not interfere with the viewing experience for the majority of movie-goers in the auditorium.



Engineered gain profile

In a post-VPF world where exhibitors need to directly fund equipment upgrades, Hugo enables cinema operators to make more cost-effective deployments. Combining the screen's unique properties with an engineered gain profile, exhibitors can use the screen to lower lumen output requirements from the projector allowing budgets to stretch further. Hugo can also help exhibitors to optimise the laser sources within the projector by running at lower power levels which also helps to lower day to day operating costs.

An optically whiter polarised screen, Hugo creates compelling 2D and deep 3D images with additional contrast and speckle reduction enabling exhibitors to utilise the enhanced capabilities of laser projection to improve presentation quality for movie-goers.

Whilst Hugo has been designed with laser projection in mind, the screen offers a perfect future-proofing opportunity for exhibitors needing to replace ageing screens whilst maintaining an eye on replacing their lamp-based projection technology in the not too distant future.

Superior optical engineering



Built-in high contrast

Laser projectors, in particular RGB enables exhibitors to benefit from the wider colour gamut Rec. 2020 to create more vivid on-screen pictures. Aligned to this, the latest projectors offer improved contrast (often more than double the contrast ratio) compared to xenon projectors.

These colour and contrast improvements can be lost in old screen technologies but Hugo has been designed with contrast in mind. The unique surface coating creates more vivid colours with blacker blacks and whiter whites. Whether it's phosphor, RB, RGB or even an eye on future projection technologies including Light Steering, Hugo has you covered.



Optically whiter appearance

Whilst Hugo is a polarised 3D screen, it's unique properties create a truly white surface. Under projected white light, the screen looks as white as Harkness' leading white gain screens (Perlux HiWhite 180 and 220) on axis.

This optically whiter surface helps to diffuse hot-spotting and give the appearance of a more uniform finish.

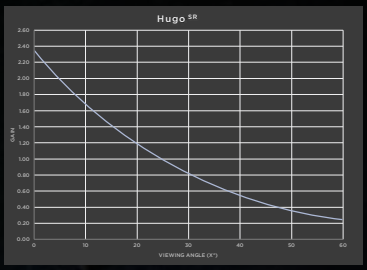
The result of more than five years of research and development alongside projector manufacturers, leading educational institutes, exhibition and the Hollywood community, Hugo SR is the brand new fifth generation screen technology from Harkness designed to support laser projection.

An optically whiter polarised screen, Hugo creates compelling 2D and deep 3D images with additional contrast and speckle reduction, enabling exhibitors to utilise the enhanced capabilities of laser projection to improve presentation quality for movie-goers everywhere.

Technical Specifications

Hugo SR
Gain: 2.2+
HGA: 22°
ER: 140:1
Max. Size: 44.19 x 18.28m
Packaging: Rolled
Perforation: Digital or Mini-Perf

Gain Curve

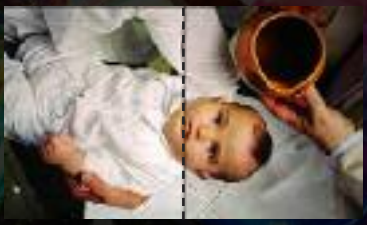


Whiter Appearance On Axis



Perlux HiWhite 180 Hugo SR

Improved Contrast



Perlux HiWhite 180 Hugo SR

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