



Revolutionary Projection Screen Technologies

Mocom Screens



MOCOM
www.mocomscreens.com



TECHNOLOGY DELIVERING THE DIFFERENCE!

“Solstice™” - Concave Screen

‘Solstice™’ series projector screens from Mocomtech are ultra-high gain optical 2D/HD/3D screens designed to perform well under any lighting condition including bright ambient lights. Innovative materials and manufacturing processes used for the Solstice screen deliver 18/23- times higher brightness when compared to a standard matte white screen.



Comparison

- ▶ Screen : Mocom Solstice Essen (82")
- ▶ Projector : 1000 ANSI Lumen
- ▶ Ambient light : 550 Lux
- ▶ Matte White Screen

Solstice™ series comes with rigid frame, various aspect ratios (4:3, 16:9, and 2.35:1), and sizes (82"-240").

To ensure the highest quality, all screens are custom made by our highly skilled craftsmen.

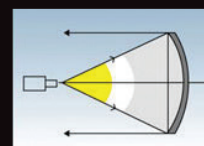
- ▶ Patents in U.S.A, U.K. S. Korea, China, Japan, India...
- ▶ Winner of CES Innovation Awards



One of the key features of Solstice™ series is its specially designed, precise lens-like curvature that nearly eliminates hot-spotting. In addition, the curvature has focusing effect and only allows the reflection of the lights originating from the projector while diffusing ambient lights. This characteristic of Solstice series eliminates interference between the ambient light and the light from the projector enabling the audiences to experience vivid colors with sharpest possible images.



Screen shape



Lens effect of screen

- ▶ Optical front projection screen for 2D/HD/3D
- ▶ Shape : Concave lens-like curvature
- ▶ Type : Rigid
- ▶ Surface material : 99% aluminum with silicon coating
- ▶ Micro-fine diffusion lines (<10 μ m) along the scanning axis and micron sized Aluminum particles (<5 μ m)
- ▶ Optimal brightness uniformity at over 80% to prevent hot-spots
- ▶ Outstanding off-axis light rejection – Only reflects light coming from the projector
- ▶ Excellent natural color reproduction
- ▶ Enhanced contrast and rich gradation
- ▶ High resolution (Full HD/UHD) capable
- ▶ Premium 3D performance – both active and passive 3D
- ▶ Improved image depth perception
- ▶ High polarization retention / reflection, and high-extinction value
- ▶ Faster visual reaction time – No tailing/ghosting
- ▶ Compatible with LCD, DLP, LCOS, D-ILA, LED long throw length lens projectors
- ▶ Materials :
 - AL 18 - 18 Gain
 - Available on Essen, Origin, Deluxe I, Cinematix I
 - AL 23 - 23 Gain
 - Available on Origin Plus, Deluxe II, Cinematix II

Why be limited to viewing a small 50" TV?

Mocomtech provides a whole new experience and realism with crisp, vivid images in HD/UHD/3D that is truly out of this world over larger screens! Mocomtech's advanced technology makes it possible. See and experience the amazing difference.



WHY SOLSTICE FOR 3D?

Challenges for current 3D projection displays

- ▶ Low Brightness (for active & passive 3D)
 - The polarization filter and polarized glasses reduce over 70% of the image brightness between the light source and viewers' eyes.
- ▶ Polarization retention and cross-talk (for passive 3D)
 - To enable stereoscopic vision, a special screen that preserves polarization is required.
 - Standard screens diffuse lights therefore incapable of retaining polarization.
 - Poor polarization preservation adds "cross-talk"

NEW GENERATION OF 3D PROJECTION SCREEN

The Solstice™ series is engineered to overcome the challenges that current 3D projection screen encounter. It provides amplified 3D presence effect by adopting simulator screen technology.

High brightness for both passive and active 3D

- ▶ Screen material
 - Designed to compensate the loss of light-output that occurs during the 3D process
 - Optimized for any 3D format (active, passive linear and circular)
- ▶ 18x brightness when compared to a 1-gain matte white screen
- ▶ 7x brightness when compared to a conventional silver Screen
- ▶ "Solstice" reduces the headache, dizziness and eye strain caused when viewing dim images - Ambient lighting conditions are no long critical issues. Solstice enables 3D images to be viewed on a large screen under unfavorable bright ambient lighting.



Benefit of the curve

Precise lens-like curvature prevents hot-spotting and rejects ambient sources. In addition, the curvature enhances the 3D effect by increasing the perceived depth.

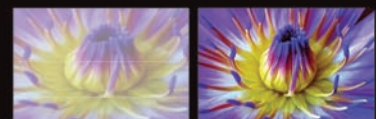
High polarization reflection for passive 3D

Cross-talk (commonly known as ghosting) is inevitable on most 3D Silver Screens due to poor polarization preservation. However, Solstice screen is designed with a material that reflects more than 99% of polarization. It virtually eliminates cross-talk / ghosting and allows for the best 3D images.



Accepts input from the highest-resolution source

The micro-fine diffusion lines ($<10\mu m$) along the scanning axis along with the micron-sized particle ($<5\mu m$) surface achieves the highest possible resolution and displays the images as they are truly meant to be seen.



SOLSTICE™ SERIES

Mocom offers a wide range of Solstice™ screens suitable for any commercial and residential applications.

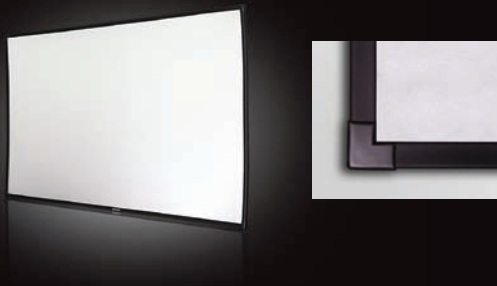
Essen

- ▶ Basic Model
- ▶ 82" – one size
- ▶ Price competitive model
- ▶ x18 brightness – Compared to a standard matte white screen
- ▶ Great combination with low-Lumen projectors

Model : S3D-82 (16:9 Format)

Material : AL-18

Frame : EPDM (Black)



Deluxe I, II

- ▶ Deluxe model
- ▶ x18 - x23 brightness – Compared to a standard matte white screen
- ▶ Black velvet finished frame – Prevents reflection
- ▶ Suitable for both commercial and residential applications

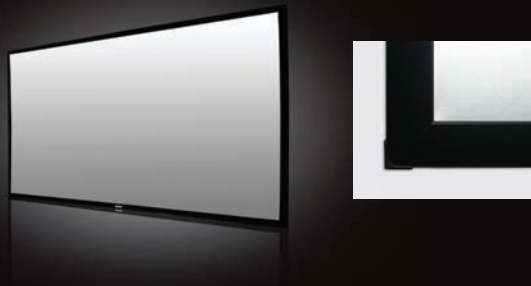
Model : 16:9 format – DHS, DHS-N 105, 125, 135

23DLX, 23DLX-N 105, 125, 135

Material : Deluxe I - AL 18 / Deluxe II - AL 23

Frame : Black velvet finished Aluminum

* DHS-N, 23DLX-N are slim models



Origin I, Plus

- ▶ Basic commercial model
- ▶ X18 - X23 brightness – Compared to a standard matte white screen
- ▶ Excellent for commercial applications

Model : 4:3 format – MD 103, 112, 130, 147, 180, 200, 210

16:9 format – MDW/23MDW 105, 125, 135, 155,

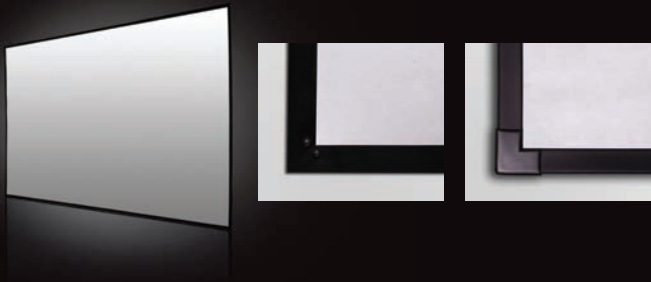
175, 200, 220, 250

* Seamless up to 1,570mm (5.15ft)

Material : Origin I - AL 18 / Origin Plus - AL 23

Frame : EPDM - Black (<1,570mm high)

Black Steel (>1,570mm high)



Cinematix I, II

- ▶ Intended for cinemascope / Anamorphic format
- ▶ Allows better cinema experience than a commercial movie theater
- ▶ X18 - X23 brightness – Compared to a standard matte white screen
- ▶ Suitable for commercial and residential applications

Model : 2.35:1 Format – MTS / 23MTS 100, 120, 135, 160, 178, 230

Material : Cinematix I - AL 18 / Cinematix II - AL 23

Frame : Black steel



Accessories

- ▶ Floor Stand / Wall Bracket available for Model up to # 135

APPLICATIONS

House of Worship



2D/3D Home Theater



2D/3D Compact Cinema



2D/3D Sports Bar / Sports Book



2D/3D A/V Class Room



2D/3D Gaming Machine



2D/3D Conference Room / Control Room



Advertising / Digital Signage





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To learn more about Mocom's products, please visit www.mocomscreens.com



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