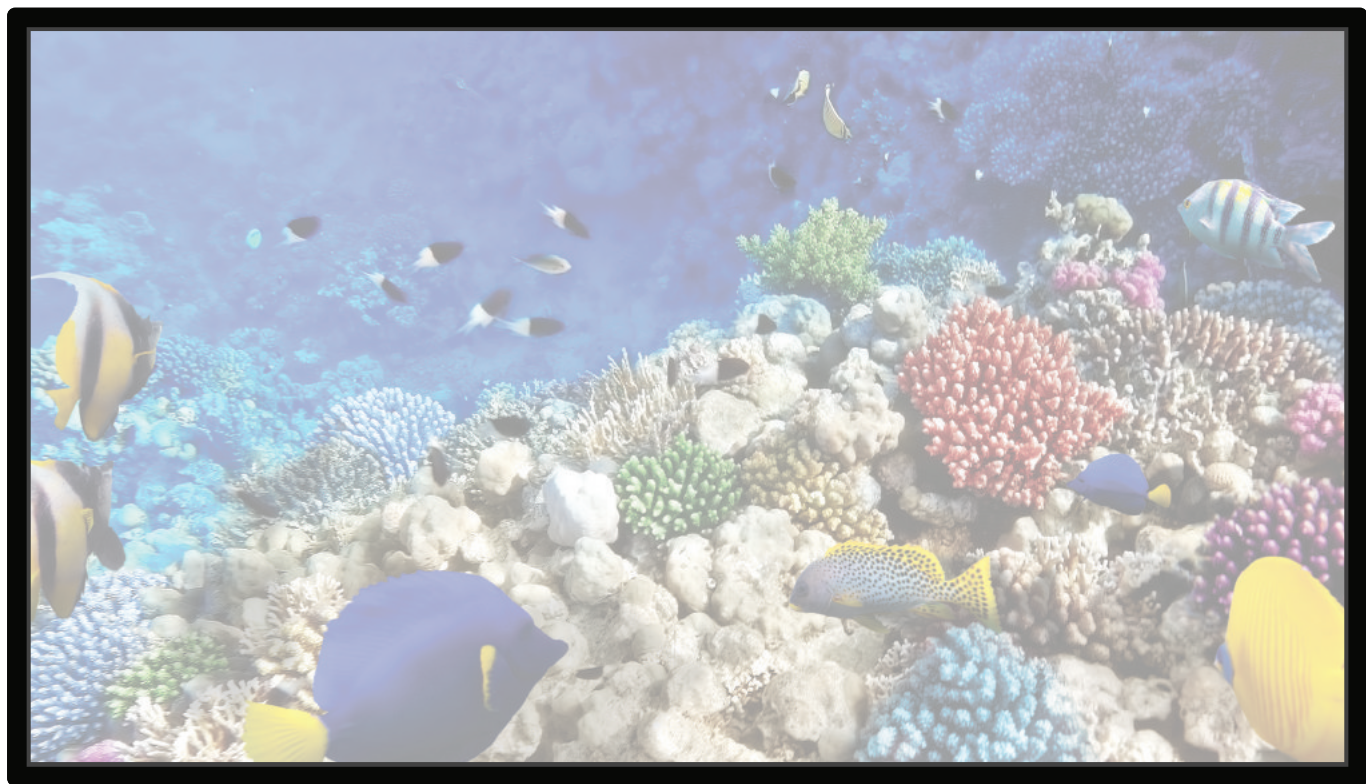Revolutionary Projection Screen Technologies

Solstice™

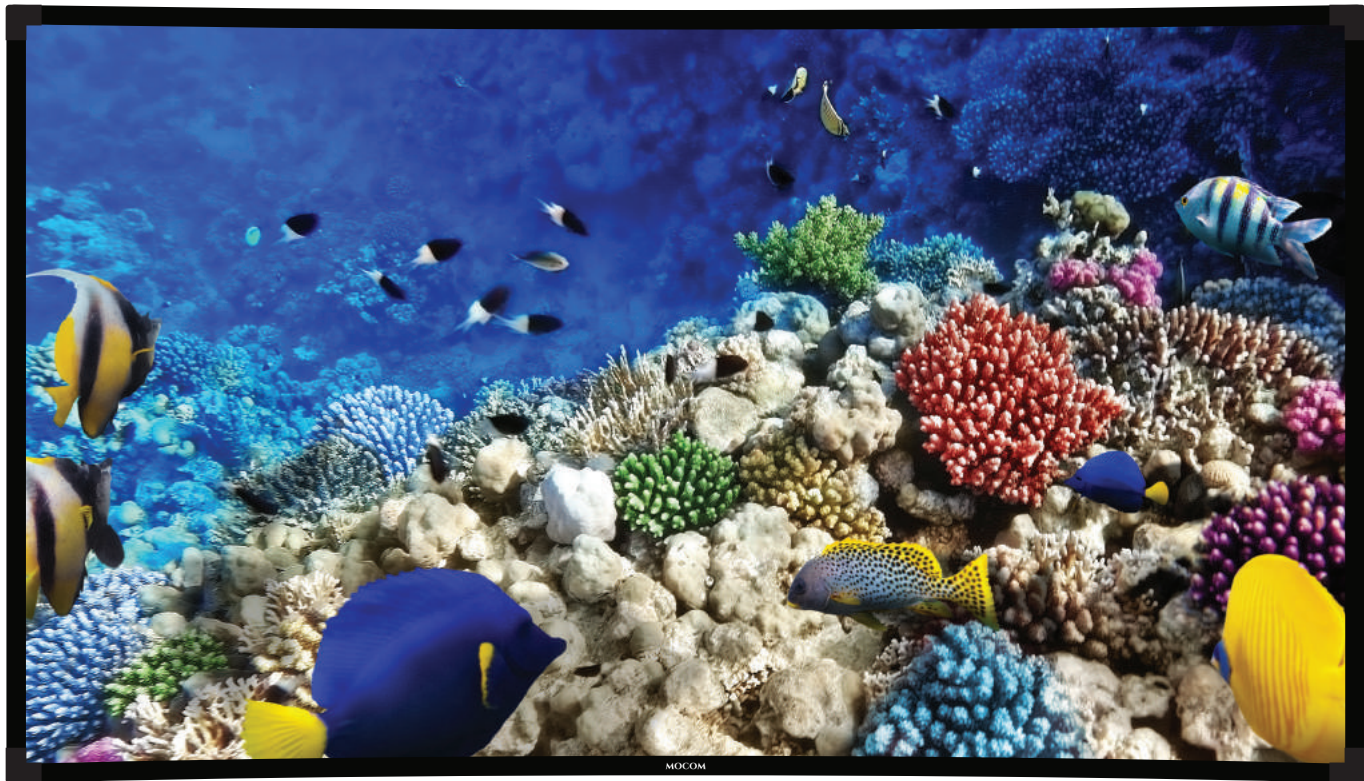MOCOM

Standard matte white projection screen

Just Replace Your

Is your projection screen still confined to dark places?
Do you need to switch off the lights whenever you turn your projector on?

Conventionally, the brightness of the image must be at least 3 times brighter than ambient lighting to produce a clear image. However, it is difficult to reach this brightness using a projector alone. For large screens, the brightness of the image decreases proportionally as the screen size grows.

No matter how bright your projector setting is, ambient light conditions limit the image quality that can be achieved. Upgrading to a high ANSI LUMEN projector is often not economically feasible.

⤷ *The solution lies in the* **"Solstice"** *projection screen.*

Solstice™ projection screen

Projection Screen!

In-screen technology amplifies brightness by up to 18 times, meaning that simply replacing the screen you are using with your existing projector will lead to in much brighter images.

The "Solstice™" screens provide upgraded image quality, unparalleled by conventional projector screens (matte white). Experience next-level images up to 18 times brighter, clearer, and with richer colors. The special concave screen, representing the next step in the evolution of curved screens, provides unmatched immersion.

▶ 18 times brighter than conventional screens

▶ Twice the brightness of TV screens; competitive pricing relative to units of similar size

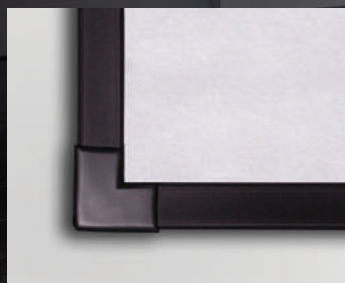▶ More economical than LED displays, ease of installation, low power consumption and low maintenance/management costs

MOCOMTECH's "Solstice™"projector screen series boasts the brightest screen brightness among current projection screens. The premium ultra-high gain optical ALR (Ambient light rejection) projection screen has been specially designed to produce clear images even under bright indoor lighting conditions.

"Solstice™" is a rigid fixed screen, ranging in size from 80 inches to 240 inches, the largest single screen optical screen solution in the world.

- Registered patents in U.S., U.K, Korea, Japan, China, and India
- CES Innovation Award winner

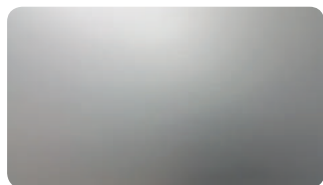

THREE TYPES OF FRAMES

EPDM

Velvet Finished Aluminum

Steel

The Technology Making a Difference

Featuring 3 core technologies

1) innovative screen surface material, 2) lens-like precision curvature, and 3) a special manufacturing process, the screen has received patents and awards from many countries throughout the world.
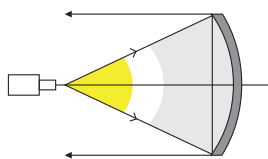
Innovative Screen Surface Material

The surface of the screen features specially treated aluminum, which capitalizes on the reflective properties of aluminum to magnify brightness, contrast, and grayscale gradation with natural color representation. The fine, lens-like surface grain allows for expression of video with 8K+ resolution while fine scattering lines expand the horizontal viewing angle.

Lens-like precision curvature

The precision lens-shaped curvature magnifies and reflects light from the projector exclusively, while rejecting all light from external sources. Hotspots have been eliminated to produce an even level of brightness throughout the screen.

A special manufacturing process

The screens are produced through a special process in a giant 6-m mold that has been ground and polished for over 2 years, by superb technicians with a wealth of experience.

SPECIFICATION

- Optical front projection screen
- **Shape** : Concave lens-like curvature
- **Brightness** : 18gain
- **Form** : Rigid
- **Size** : 80-240"
- **Aspect ratio** : 16:9, 4:3, 2.35:1
- **Surface** : 99% aluminum with special surface treatment, ultrafine scattering lines
- Optimized brightness uniformity (80%+)
- Minimal hotspots
- **Outstanding off-axis light rejection** : Magnification and reflection of projector beam only
- Natural color expression
- Enhanced contrast, rich gradation
- Upgraded immersion
- High resolution capable, Texture-less surface (4k & 8k)
- **Compatibility** : Normal of long throw lens LCD, DLP, LCOS, D-ILA, and LED projectors

SUPERB 3D PERFORMANCE

- Optimized for both active & passive 3D
- Improved image depth perception
- High polarization retention (99%) and high-extinction value
- Minimal cross-talk
- On-screen compensation for loss of brightness in 3D implementation process
- 7X the brightness of normal 3D silver screens
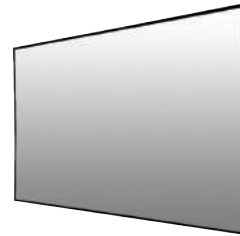- Minimal headaches, vertigo, and eye fatigue

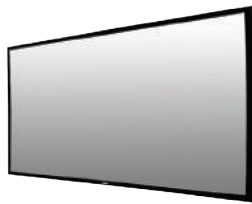**MOCOM**

ESSEN

Economy model
- 82 – One size
- EPDM Frame
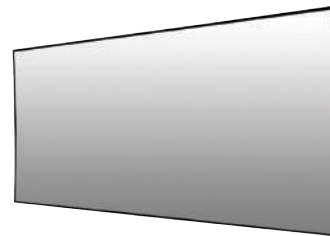- Suitable for use with low ANSI LUMEN projectors

ORIGIN

Basic model
- EPDM, Steel frame
- Suitable for commercial use
- Large size (Plus-200-inch) available

DELUXE

Deluxe model
- Black Velvet finished Aluminum frame to absorbs projector overshoot
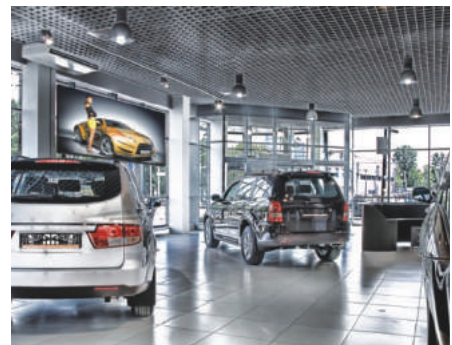- Suitable for home theater

CINEMATIX

Anamorphic format
- Steel frame
- Providing an image experience surpassing conventional cinema (theater) screens

	ESSEN	ORIGIN		DELUXE		CINEMATIX	
MODEL	S3D	MDW		DHS	DHS-N	MTS	
	82	105, 125, 135	155, 175, 200, 220, 250	105, 125, 135	105, 125, 135	100, 120, 135	160, 178, 230
Aspect Ratio	16 : 9	16 : 9		16 : 9		2.35 : 1	
MAX. Image SIZE (mm)	1,765 x 991	5,334 x 3,000		2,790 x 1,570		5,375 x 2,287	
MAX. Image SIZE (inch)	69.5 x 39	210 x 118		110 x 62		211.6 x 90	
Curvature (mm)	7,400	9,000 - 16,000		9,000 - 12,000		9,000 - 12,000	
Minimum Projection Distance (m)	3.7	4.5 - 6	8	4.5 - 6		4.5 - 8	
Seamless	Yes	Yes	1 Seam	Yes	Yes	Yes	1 Seam
Frame type	EPDM	EPDM	Steel	Aluminum + Velvet finished		Steel	
Back Panel	Yes	Yes	No	Yes	Yes (thin)	No	
Screen Surface Color	Silver						
GAIN	18						
Shape	Concave						
Rigibility	Rigid						
3D	YES (High Polarization Retention rate)						
Accessory	Floor stand, wall bracket			A-shape Floor stand	Floor stand, wall bracket		

APPLICATIONS

"Solstice" works great for both residential and commercial applications, ranging from your living rooms and dedicated home theater in homes to other large venues like a house of worship, auditorium, classroom, store, shopping mall, museum and much more.

More Fun! More Magic! More Entertainment!

Smart Digital Australia -

Official Distributor of MOCOM screens in Australia

MOCOM

Mocomtech Co. Ltd
Revolutionary Projection Scren Technologies

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