

[www.mocomscreens.com](http://www.mocomscreens.com)  
[www.mocomtech.com](http://www.mocomtech.com)

The Paradigm Shift in VR/ Simulations

**MOCOM SCREENS**



# World's Brightest Projection Screen with 20Gains

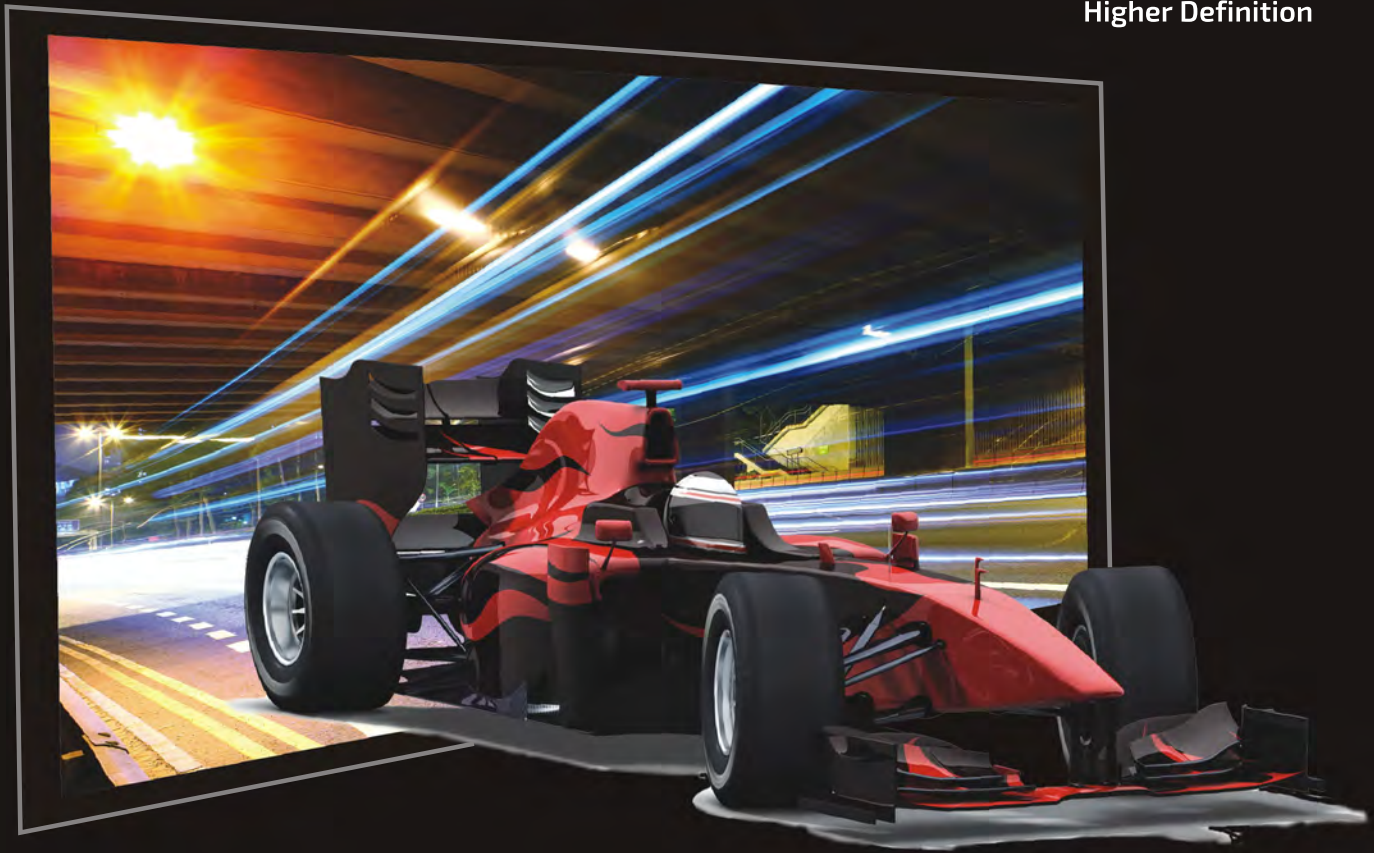
Compared to Matte White,

## 2D/3D/UHD

18 Times Higher Brightness

Higher Contrast

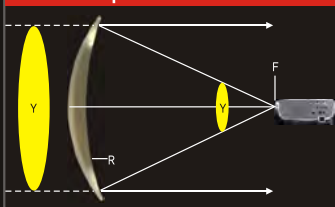
Higher Definition



## Mocom 3D Screen's Characteristics

- Optical front projection screen
- Shape: Concave lens-like curvature
- Type: Rigid
- Surface material: 99% Aluminum with coating
  - 2x brighter than a traditional TV
  - 6X brighter than a 3D Silver screen
  - 18x brighter than a matte white screen
- Outstanding off-axis light rejection
- Enhanced brightness and contrast
- Optimized for any type of 3D (Active & Passive)
- Micro- fine diffusion lines along the scanning axis and micron-sized aluminum particles
- Premium 3D performance
- Improved image depth perception
- High polarization preservation
- Excellent color reproduction
- Faster visual reaction

Amplified 3D Effect



Concave Lens-shaped screen



High Uniformity



Perfect color reproduction



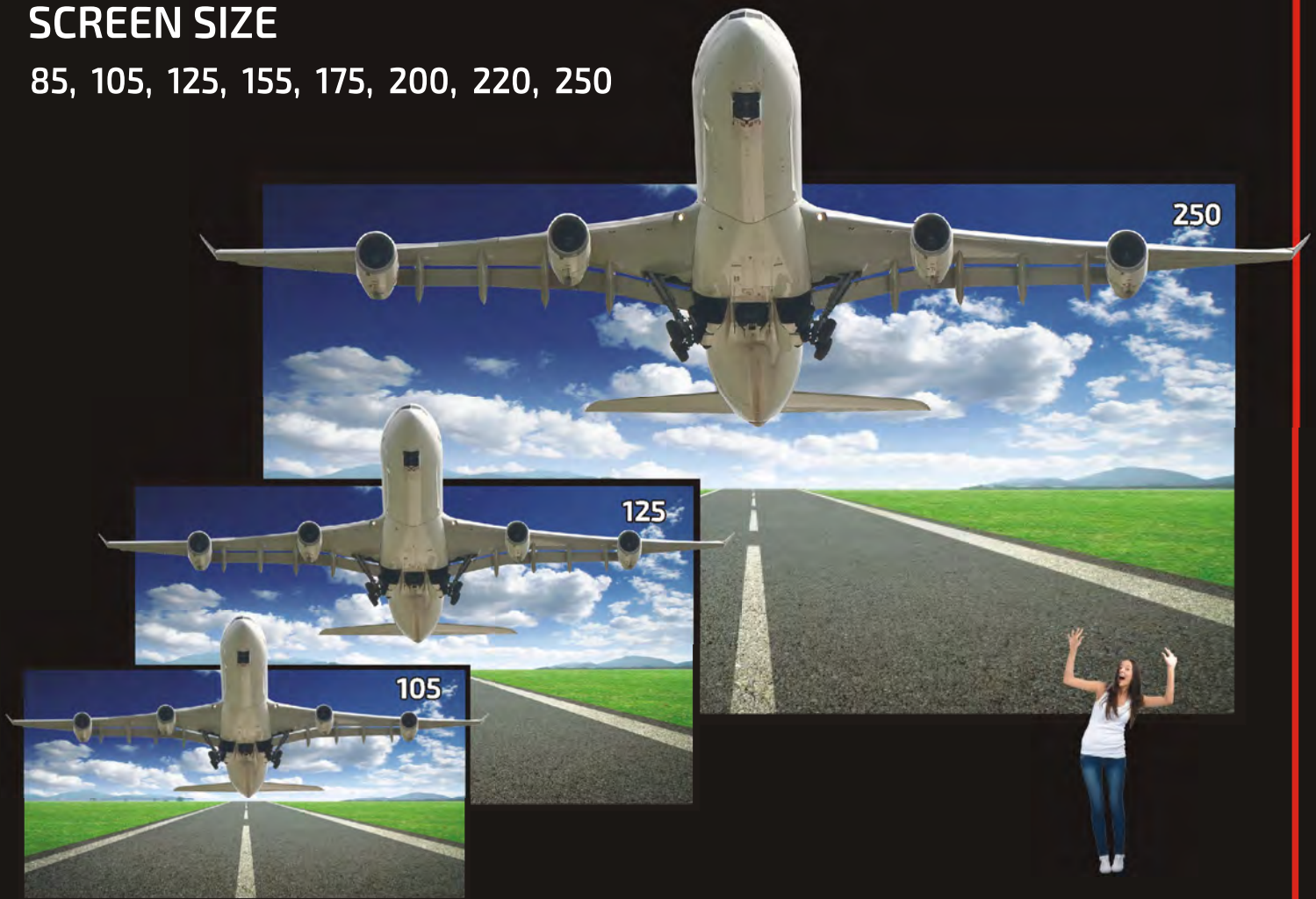
Micro-fine diffusion lines





# SCREEN SIZE

85, 105, 125, 155, 175, 200, 220, 250



## The Biggest Problem in 3D - Brightness : Dim & Blurred Image!

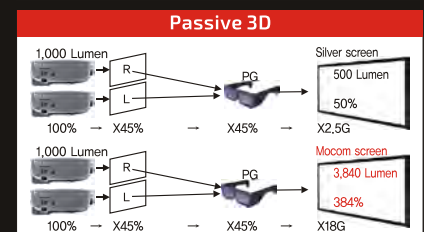
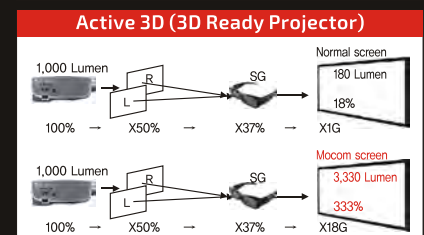
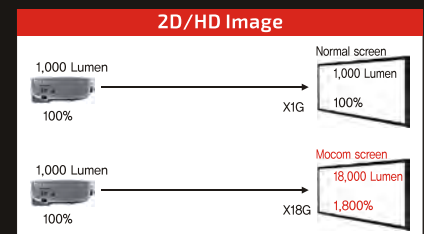
There are two prominent technologies for displaying stereoscopic images using projectors : "Active" and "Passive". Active display is operated using shutter glasses while passive display is operated using polarized glasses. Regardless of any 3D method you choose, its main disadvantage is insufficient brightness that is common in current 3D system.

Not only blurry images decrease the stereoscopic effect but it may also cause a headache, dizziness, and nausea.

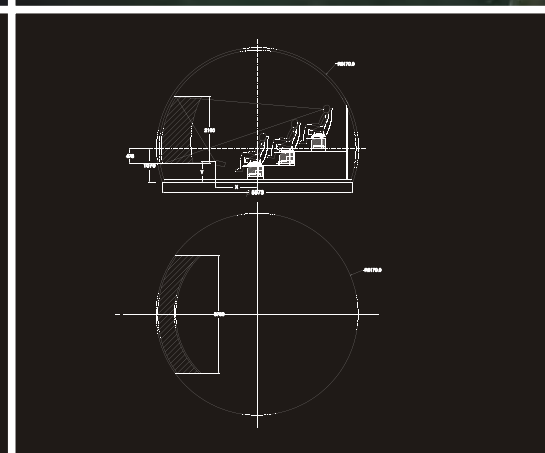
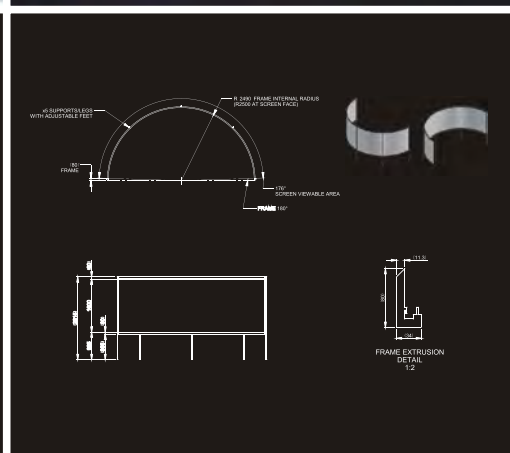
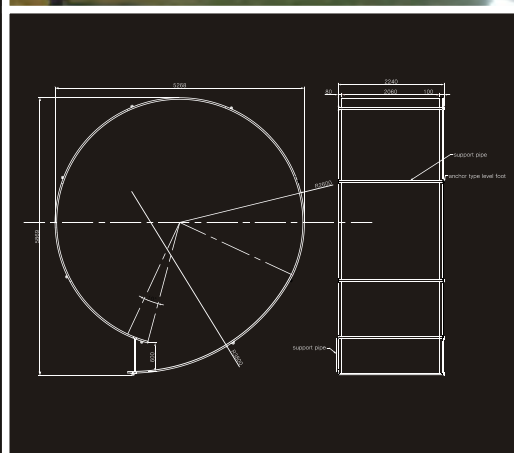
The brightness of 3D display is decreased by 50% as 2D display is converted into 3D. Moreover, active shutter glasses only allow about 37.5 percent of the light to pass through. So the image appears to be very dark which has a through-put about 18.5% of the 2D display brightness.

Passive 3D display has a through-put of only 45% of light coming from the projector's passive polarizer and polarized glasses. Total amount of brightness is decreased by 22.5%, although the brightness is increased by 2.5 times on a silver screen. As a result, total brightness of the image is less than 50% of the 2D brightness.

Mocom screens are engineered to overcome the challenges that current 3D projection screens encounter. It promises better 3D experience on a large screen. This enhanced 3D created by Mocom will provide the sharpest and brightest 3D picture, and creates a more comfortable 3D viewing experience by eliminating crosstalk.

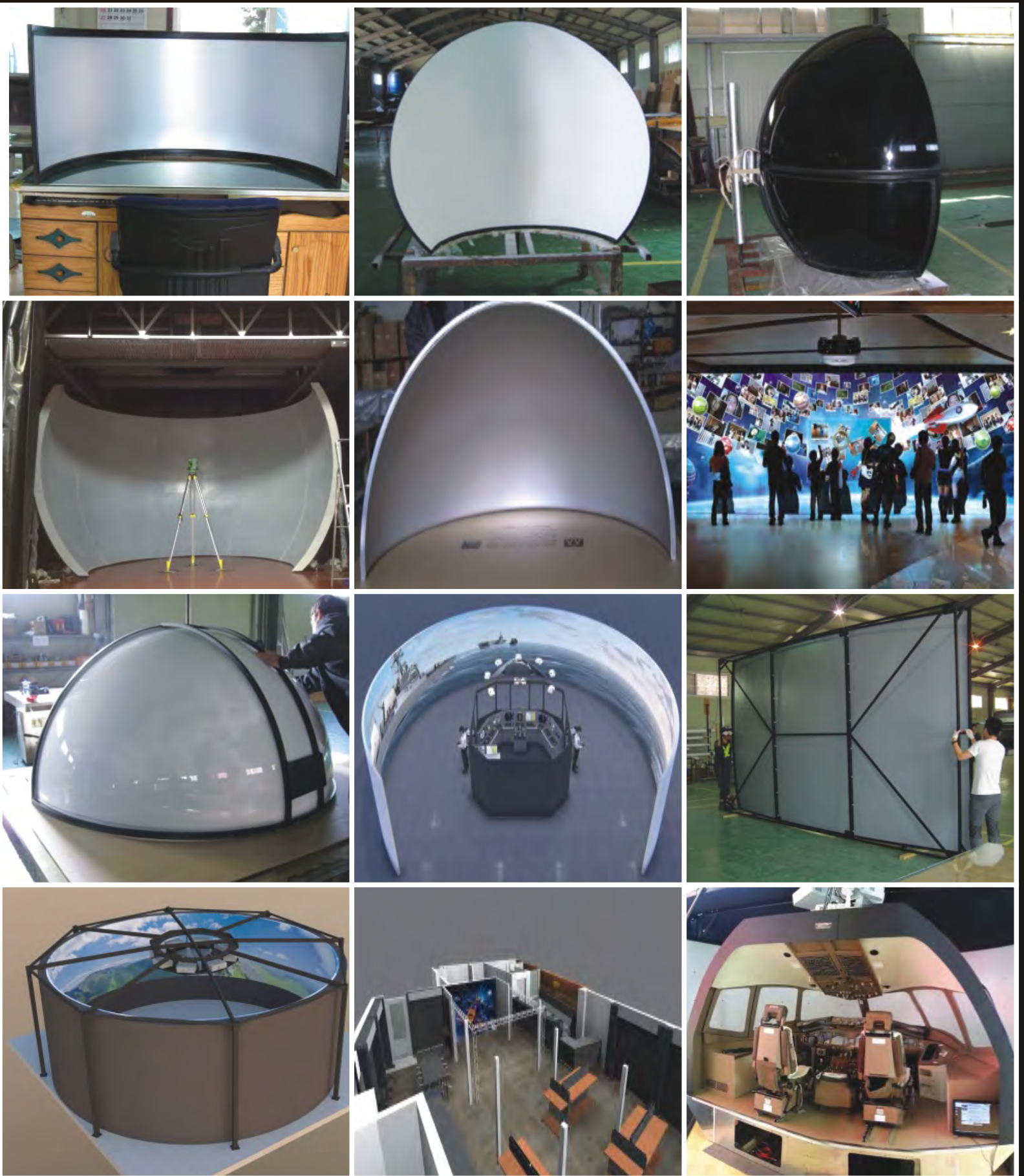


# 2D/3D/UHD Screens!





# Curved, Concave, Multi-Polygon, Dome, Wide Shapes





# Applications : VR, Simulations, Game, Sports, Theme Park, 3D Meeting Room



## AWARD WINNING TECHNOLOGY



Presidential Prize  
1999



Presidential Prize  
2001



World First class Product  
2008



Iron Tower  
2009



CES Innovation  
2004



CES Innovation  
2003



CES Innovation  
2002

### 1. First Optical Company In S.Korea

Mocomtech was founded in 1953 as a specialized manufacturer of high-quality optical products- Telescopes & microscopes. In 1996, Mocomtech started the production of ultra-high gain screen by applying 40 yrs of accumulated knowledge in optical field.



### 2. Facilities

- Asia
  - Dongduchun, Korea (6,964 m<sup>2</sup>)
  - Pochun, Korea (3,593 m<sup>2</sup>)
- North America
  - Barstow, CA, USA (161,877 m<sup>2</sup>)
  - Planned factory site



Seoul Office



Factory 1



Factory2



USA Factory Site

### 3. Award Winning Projection Screen Technology

- Innovation awards from CES2002, 2003 and 2004
- Presidential prize in Korea twice
- World first class product award in Korea



### 4. Great Number of Patents in Projection Screen Technology

- Patents In USA, U.K, S.Korea, China, India, Japan, Germany, etc.
- Number of registered patents
- 350 Patents in Korea, 100 Patents internationally





## 3D PROJECTOR



- 3D Full HD Projector (Mop-3HD)
- LED Projector 1000 Ansi Lumen X 2
- 1080P X 2



- 3D HD Projector (Mop-3D)
- 4000 Ansi Lumen X 2
- 720P X 2



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TEL: +82-2-739-9968

FAX: +82-2-739-9971

E-mail: [info@mocomscreens.com](mailto:info@mocomscreens.com)

Address : 40 Seombat-ro, Nowon-gu, Seoul 139-808, S.Korea

Factory1 : 108, Samyuksa-ro 692Beon-Gil, Dongducheon-Si,  
Gyeonggi-Do, S.Korea