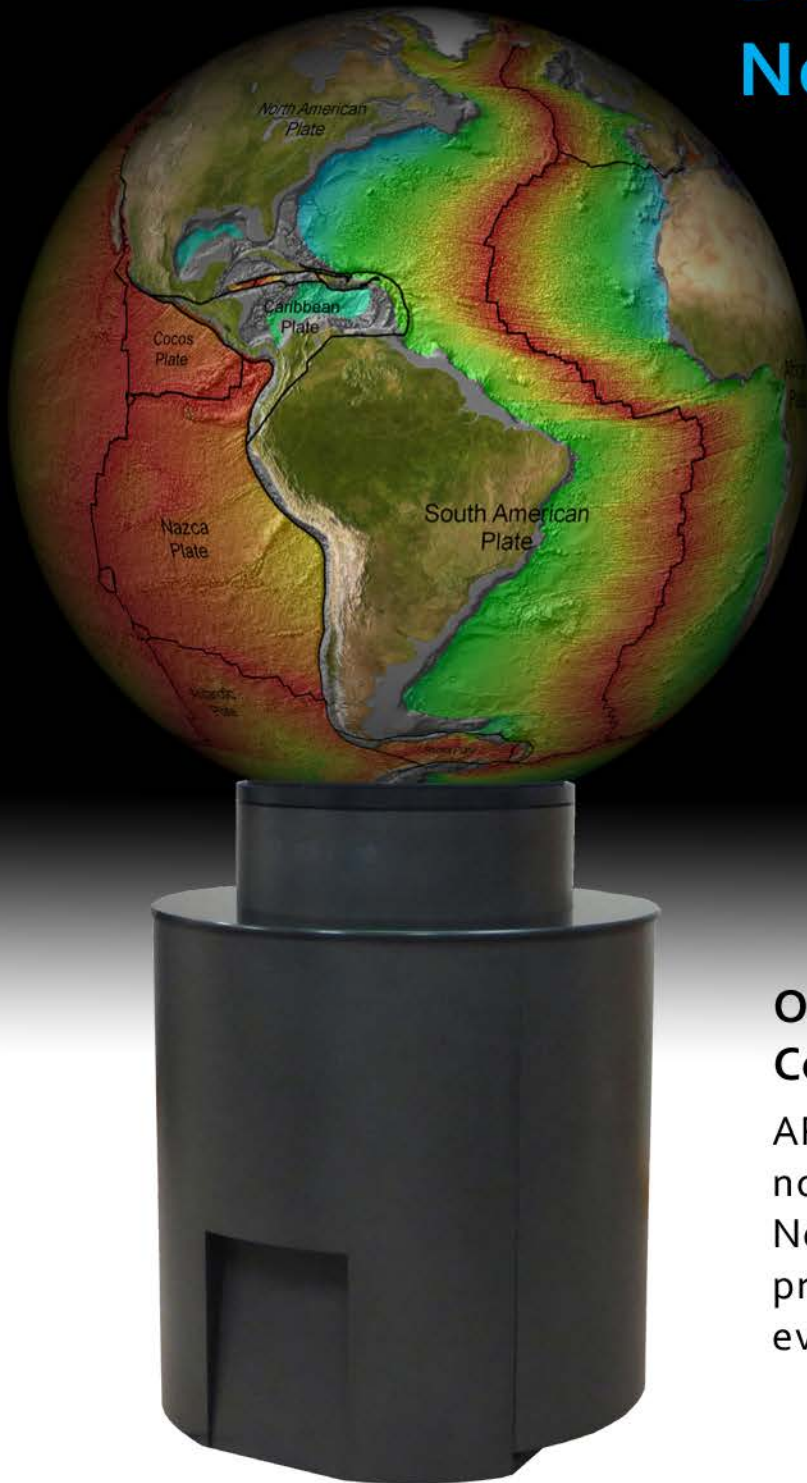


3RD GENERATION DUAL PROJECTION Now with *LASERS*



OmniGlobe® Spherical Displays Combine the Best of Two Worlds!

ARC's unique optics and screen are now more brilliant than ever with New *Laser Projectors*. Dual HD Lasers provide sharp 4k equivalent images even under bright room lighting!

New Laser 48 inch OmniGlobe


OmniGlobe®
ARC Science Simulations
www.arcscience.com

Captivate Your Audience With An OmniGlobe®

A Spherical Display is really a different world than the flat displays so common in our lives. When viewers first encounter a beautiful digital globe, they are enthralled. Whether the purpose is entertainment or education, you have their attention. They should be your audience, your visitors, your students, your colleagues.

DISPLAY INNOVATIONS

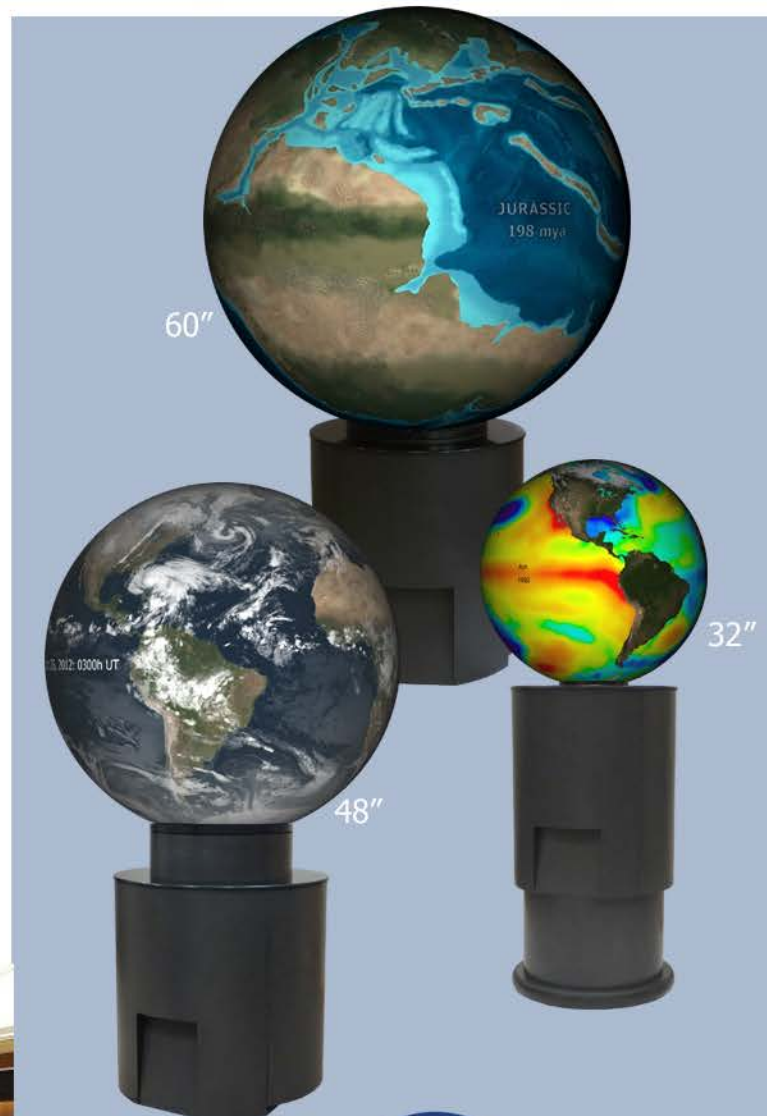
The OmniGlobe has been developed at ARC Science from the ground up to provide the very best spherical display solution. Our patents include our reflective dispersion optics, beam fusing of two HD projectors to deliver 4k equivalent resolution, and our Enhanced Contrast screen technology. The net result is screen image quality far exceeding all other approaches to spherical display.

3RD GENERATION DUAL LASER PROJECTION ENGINE

LCOS (Liquid Crystal On Silicon) projectors with Laser illumination provide an ideal match with ARC's optics and screen for sharper detail and more brilliant color. The highly stable integrated design also allows a more compact base for the 60" and 48" globes.



32" at Virginia Tech

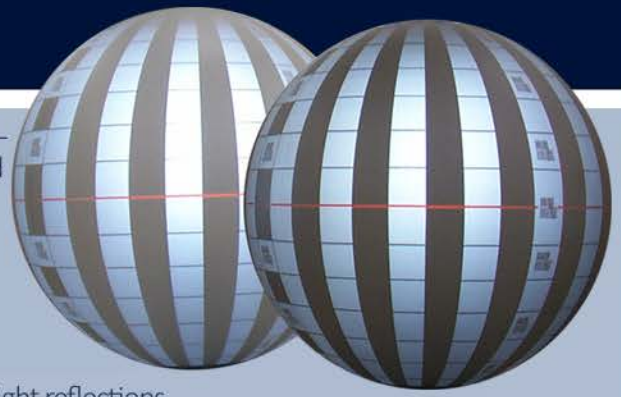


OmniGlobe®

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OmniGlobe Technology

Contrast Comparison—
untreated vs enhanced
screen



- Matte finish screen doesn't show light reflections
- Image dispersal with convex mirror => High Light Efficiency
- Proprietary screen treatment for 2X Contrast Enhancement
- Easy to clean surface, doesn't show fingerprints
- Internal Dual HD Laser Projectors

OmniGlobe Software Solutions

ARC's **OmniExplorer™ 4.0** provides presentation design and viewer interaction using a touch-screen. Content items can be *global images*, *interactive animations*, or *movies*. Presentation collections are easily created and modified and each item of the project can be assigned features and behaviors. The screen selection icon can be user provided or automatically created from the source imagery. Image and text globe overlays are supported, as well as audio and explanatory text and graphics, slide show mode, real-time data feeds, and much more. ARC's **Geometer™** software is used to convert 2D movie frames to the correct geometry for projection on the globe.

Content Library and Creation

Each OmniGlobe system comes with over 20 pre-built collections (Solar System, Earth sciences, etc.). All the items in the collections, over 300 and growing, are available for building other collections, and users may add their own content and touchscreen graphics to create custom presentations, such as shown below, right.

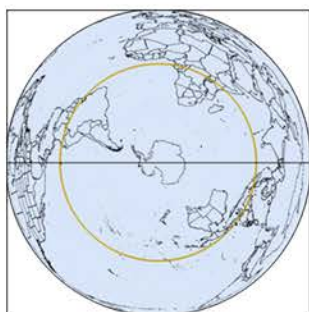
4K EQUIVALENT RESOLUTION

A 4k 2D global image would have an equator length of 4000 pixels.

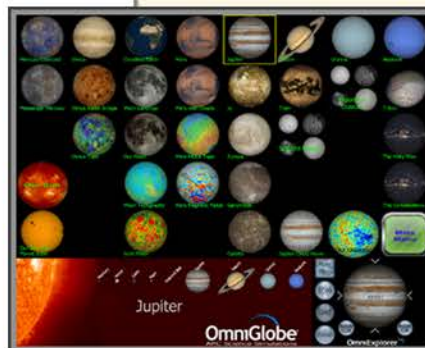


Combining two HD projectors, an OmniGlobe projects a very bright

circular image 1920 pixels in diameter on the mirror. The equator (brown circle) would then be about 4000 pixels in circumference, preserving most of the detail in the 4k source image.



Example touchscreen layouts



Now with Long Life Laser Projectors



32" OMNIGLOBE



48" OMNIGLOBE



60" OMNIGLOBE

Technical Specifications

	32" OMNIGLOBE	48" OMNIGLOBE	60" OMNIGLOBE
Screen Diameter	31.5" (80cm)	47.6" (1.2m)	59.6" (1.5m)
Base/Projector housing	Cylinder, 23" (58cm) dia.	Cylinder, 31" (78cm) dia.	Cylinder, 31" (78cm) dia.
Overall height from floor	79" (2.0m)	86" (2.2m)	92.5" (2.35m)
Custom base finish/configurations	yes (height, finish) ¹	yes (finish)	yes (finish)
Enhanced contrast screen	yes	yes	yes
Optimum viewing distance	3 feet or more	5 feet or more	6 feet or more
Installation	by ARC	by ARC	by ARC
Projector Canon Laser	WUX (1920x1200)	Dual WUX (1920x1200)	Dual WUX (1920x1200)
Projectors (Total ANSI Lumens)	7,000	14,000	14,000
Effective screen illumination (average)	1,698 lux	1,900 lux	1,226 lux
Resolution (pixels on screen)	1,131,000	2,895,290	2,895,290
Pixels/inch at equator	25.1	27.0	21.6
Light valve technology	LCOS	LCOS	LCOS
Laser Expected Life (full power) ²	20,000 hours	20,000 hours	20,000 hours
Power consumption	540 W	1080 W	1080W
Weight (approx.) with projector(s)	140 lbs (63kg)	270 lbs (122kg)	300 lbs (136kg)

1. The 32" system base can be shortened and/or provided with castors for easy moving.
2. Two Econo Modes are available which decreases brightness while extending the life time of the Laser.



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