

ZEISS ASTERION®

The new Star Ball for Hybrid Planetariums

The Answer

Fewer and fewer people have experienced for themselves an unspoiled view of the night sky. Many have never seen the Milky Way in its full splendour. Planetariums, therefore, have the task of simulating the starry sky to appear in its most natural way possible. But with what? Today, anyone who needs to equip a planetarium is faced with the question of whether or not an opto-mechanical projector is still relevant. ASTERION and ASTERION Premium are our answer.

Realistic

ASTERION is designed as an opto-mechanical hybrid component and shines with exactly what digital projections cannot: with stars, clear and bright, point-like and in natural gradation with a Milky Way that is particularly realistic to the eye.

True Hybrid

Couple ASTERION with a ZEISS VELVET full-dome system and you will enjoy a lifelong love affair with the combination.

Compact

ASTERION puts high opto-mechanical technology into a miniaturized form and creates the brightest starry sky with the smallest Star Ball of its class. It offers virtually no obstruction to the visitors.

Space-saving

ASTERION is content with the footprint of one to two seats in the centre of the dome. What is often considered the best space in the dome is kept for visitors.

Elegant

Inspire audience with your performances, but also with your technology. ASTERION is a technical piece of art, small but prominent, raising curiosity.

Fast

The Star Ball lets presenters move between locations and time as quick as no other star ball can do.



Silent

With the new cooling concept visitors will see ASTERION in the dome, but struggle to hear it.

Flexible

ASTERION feels most comfortable in domes between 8 m and 18 m in diameter, gladly tilted up to 30 degrees. But even in a 20 m dome planetarium guests will enjoy impressive stars.

Economical and sustainable

With just 220 and 450 watts (Premium) you won't find ASTERION on your electric bill. ASTERION wants to be looked after, but will not devour your service budget. No consumables anymore to buy, exchange and waste.

Transportable (option)

If necessary, you can temporarily move ASTERION out of the dome centre and reposition it exactly and quickly.

Affordable

Best quality at a good price. Do not expect anything less from ASTERION.

ZEISS ASTERION® – Technical Data

	ASTERION	ASTERION Premium
Projection Dome		
Dome diameter / dome tilt:	8 m – 14 m (26 ft – 46 ft), 0° – 30°	14 m – 18 m (46 ft – 60 ft), 0° – 30° 12 m – 14 m 18 m – 20 m (option)
Dome reflectivity:	30 % – 60 %	45 % – 65 %
Horizon height:	1650 mm – 2055 mm (standard) min. 400 mm (after consultation)	2055 mm – 2200 mm (standard)
Auditorium		
Temperature and changes:	+15°C to +30°C; max. 5°C/h	+15°C to +30°C; max. 5°C/h
Relative humidity:	max. 70 %	max. 70 %
Projection instrument		
Height, max.:	2232 mm	2377 mm
Footprint:	approx. 655 mm (26 in) dia	approx. 700 mm x 1300 mm
Weight:	approx. 130 kg (287 lbs)	approx. 150 kg (330 lbs)
Starball diameter:	320 mm (12.6 in)	320 mm (12.6 in)
Starball rotations:	up to 60°/s	up to 60°/s
Effect lighting:	RGB light ring	RGB light ring
Power supply		
Operating voltage:	100 – 240V AC, 50/60 Hz	100 – 240V AC, 50/60 Hz
Power consumption:	220 VA	450 VA
Projections		
Starry sky:	approx. 7 000 stars (down to 6 ^m 3)	approx. 9 000 stars (down to 6 ^m 55)
Bright stars:	integrated in fiber optic projectors	11 projectors for bright stars
Colored stars:	natural tints for all stars down to 1 ^m 9	natural tints for all stars down to 2 ^m 1
Scintillation (all stars):	option	true-to-life (standard)
Milky Way:	optical projection, processed with nearly 1.7 billion stars (Gaia data)	optical projection, processed with nearly 1.7 billion stars (Gaia data)
Deep-sky objects:	77	77
Sun and Moon:	option	standard: approx. 1° diameter, Moon incl. surface details and phase changes
Planets:	option	Mercury, Venus, Mars, Jupiter, Saturn (point-like)
Starball lift (lowering out of dome center)		
Starball lift:	no	integrated in the stand
Light sources		
Starry sky/Milky Way:	Power LED, color temperature: 6 500 K, service life: approx. 36 000 h	
Sun/Moon/Planets:	Power LED, color temperature: 6 500 K, service life: approx. 36 000 h	

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Seeing beyond

We reserve the right to change specifications in the interest of technical progress.