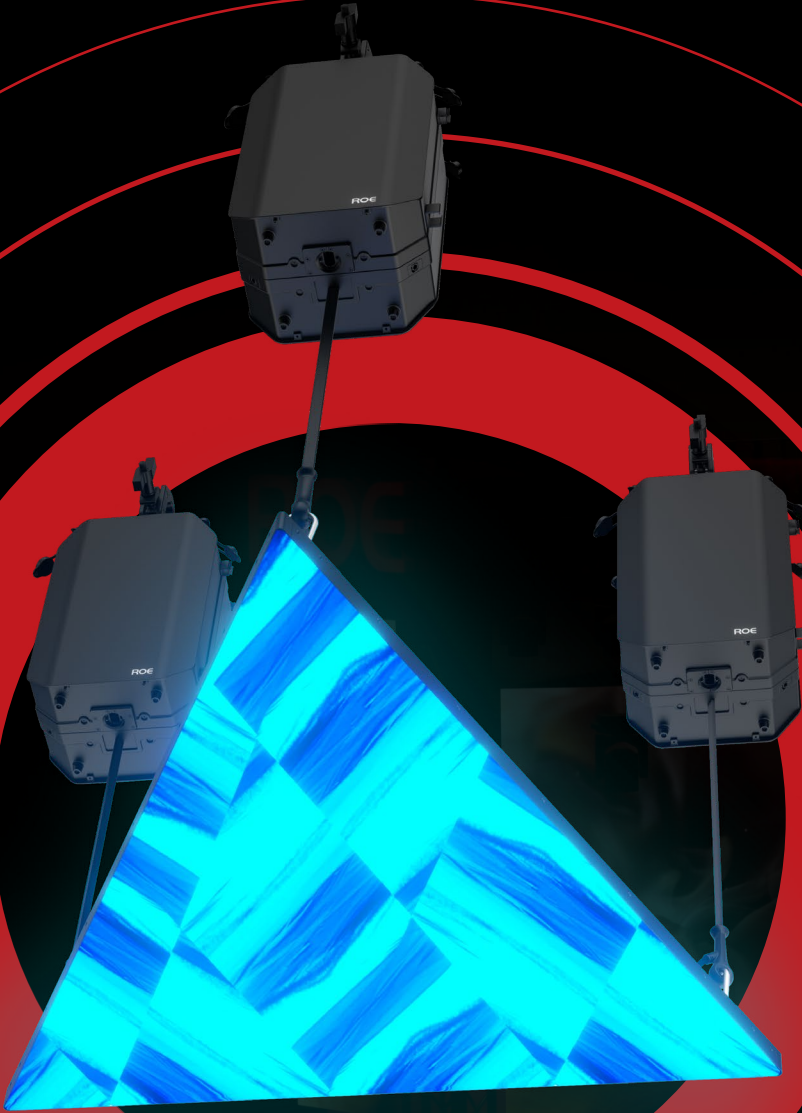# ROE
CREATIVE DISPLAY

Apsaras

Mechanical Control Solution

MOTION SYSTEM WITH LED PRODUCTS

Unleash Your Creativity
Experience the Magic in the Sky

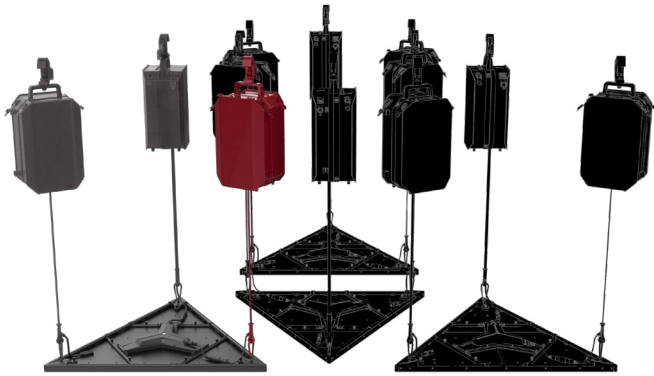Prepare to be captivated by Apsaras, a cutting-edge innovation explicitly designed for the creative stage. **This remarkable system combines state-of-the-art mechanical control technology with pixel-perfect LED products**, including awe-inspiring triangle LED display, and even more exciting developments in the pipeline.

With Apsaras, the possibilities are boundless. Brace yourself for a dynamic and immersive visual experience like no other. Witness as your imagination takes flight and your visions become reality, all within a magnificent and enchanting environment that is as visually stunning as it is artistically sublime.

Multiple Safety Guarantees

When Safety becomes the first thing in mind, then the stage lasts. Apsaras boasts comprehensive hardware safety measures that ensure optimal functionality and user protection.
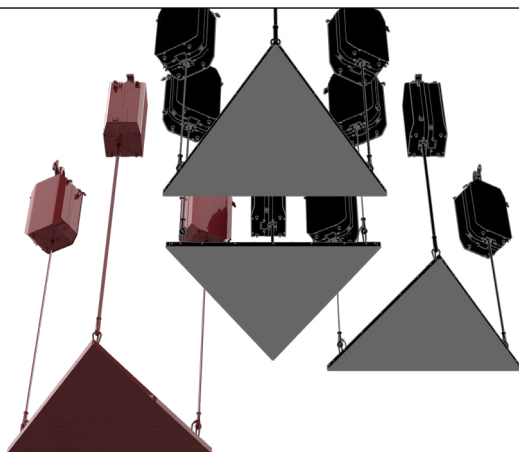
1. Series Connection Protection System
With the series protection system, when one motor loses control, other motors will also sense and stop synchronously to prevent collisions and accidents. If there is no weight or overweight, the motor will lock up and cannot move.
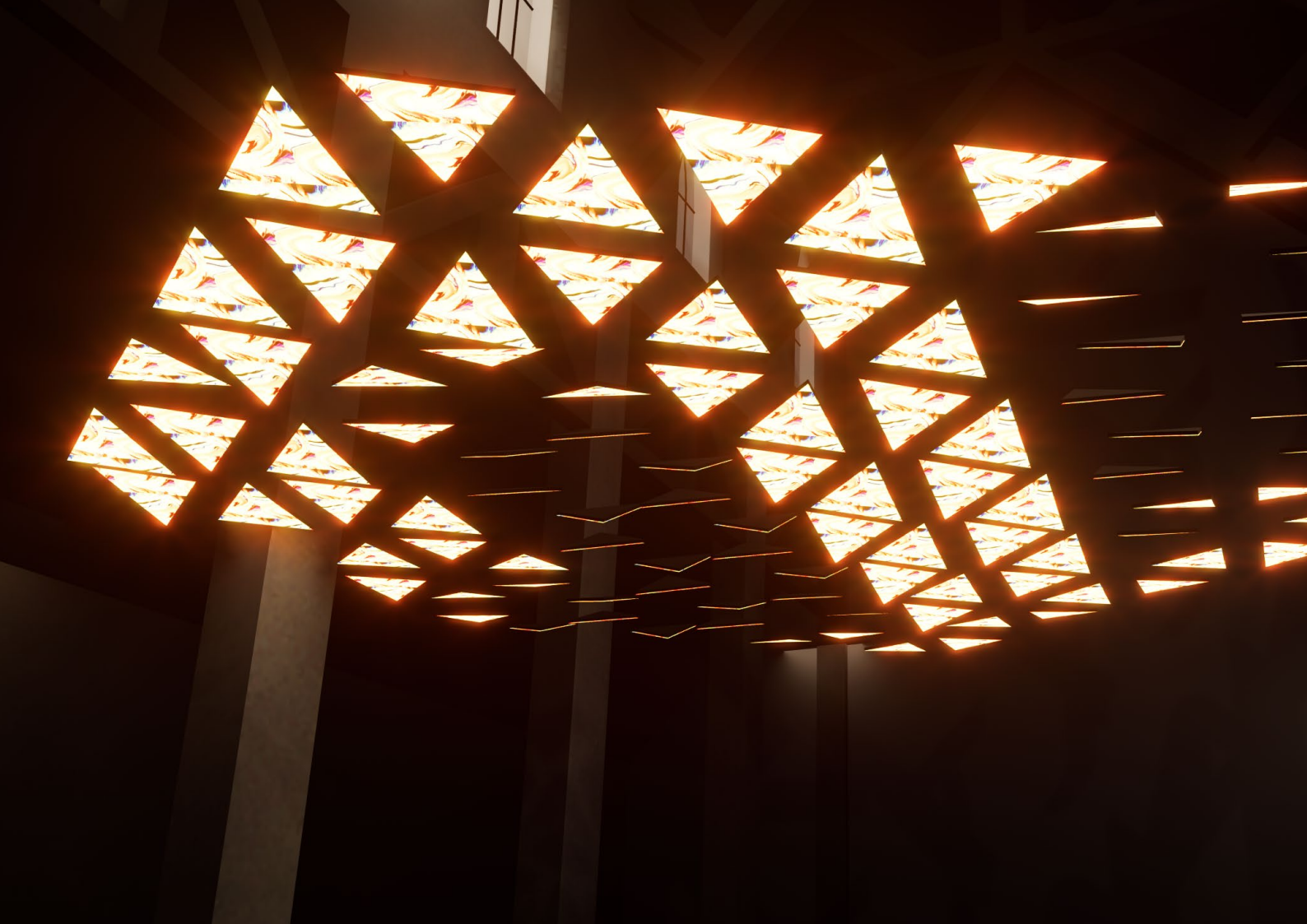
2. Predetermined Safety Limits
The motor system is engineered to cease operation with four predetermined physical safety limits. This safeguarding mechanism eliminates the possibility of the motor idling at these boundaries, thereby mitigating potential safety hazards. Its integrated sophisticated software limits regulate the operating range, providing an additional layer of protection.

3. Braking functions
Braking functions include two essential features, the electromagnetic brake, and the self-locking brake, that work together to ensure maximum safety when operating our products. These two functions deliver a superior braking system that prioritizes safety and stability.
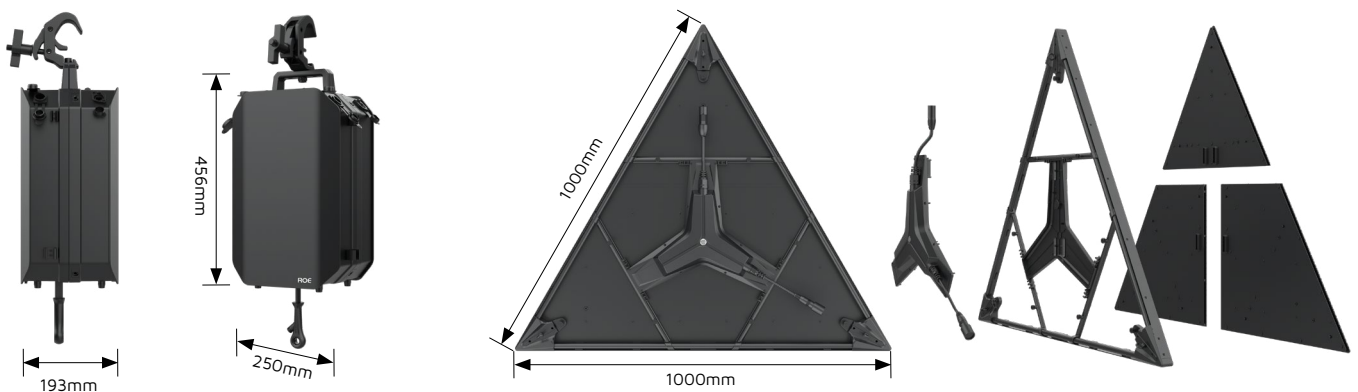
– Synchronized motion and LED display control
– Control pixel-mapped light fixtures via Ethernet/Ethercon cable
– Group multiple winches for moving and tilting complex objects and lifting heavier weights
– Auto setup function with cable end position self-detection
– Variable speed from 0 to 0.5 meters per second
– Repeatable absolute cable positioning at a precision of 1 mm
– Full-color RGB pixel mapping
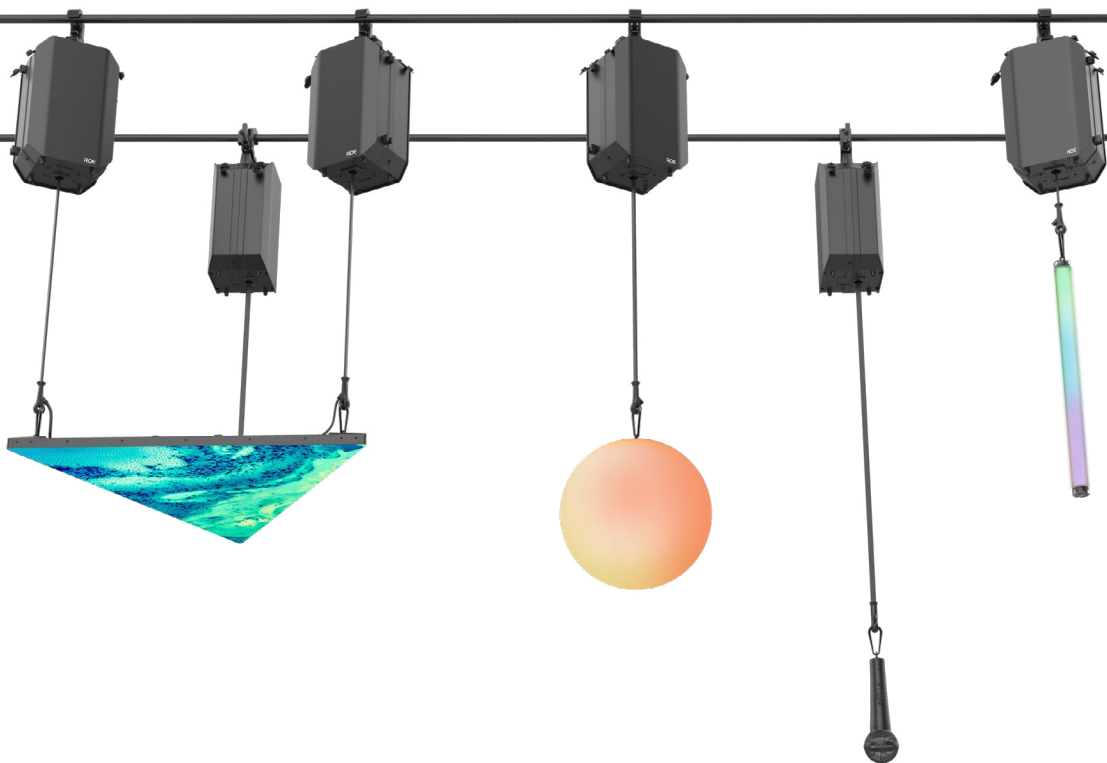
Immerse in a World of Astonishing Visuals

Apsaras' remarkable system pushes the boundaries of imagination to bring you an unparalleled visual experience. With a pixel pitch of 4mm, the triangle LED panel offers vivid, eye-catching visuals that seamlessly integrate into any spatial design, transforming your stage into a mesmerizing world of pure artistry. Not simply providing the lighting effects, Apsaras offers stunning visual effects under movements and different viewing angles.

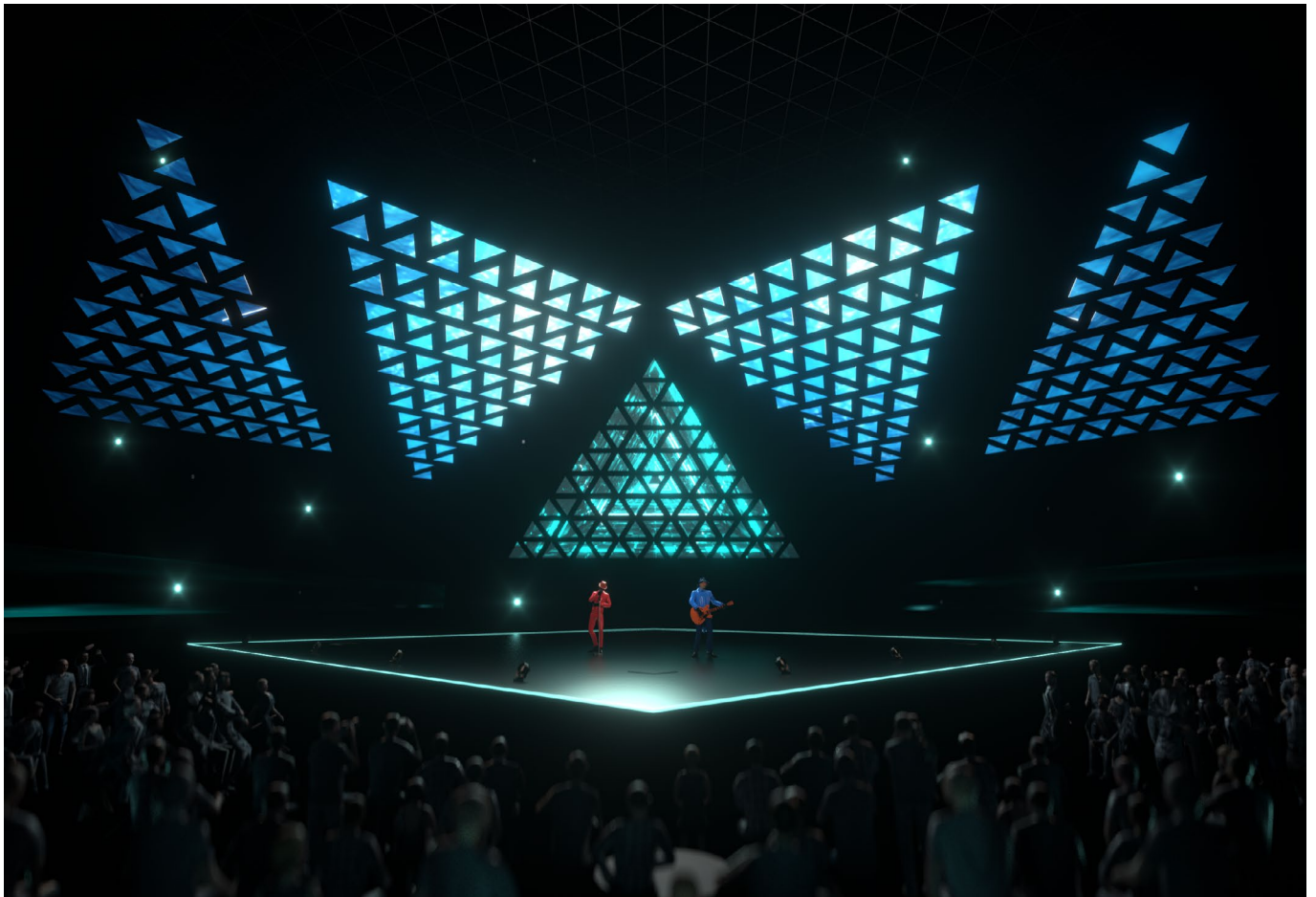# Dimensions

Effortless Control,
Fly with Ease

Take control of every aspect easily, as Apsaras effortlessly integrates with widely used lighting control systems such as Madrix and standard DMX 512. As pioneers in innovation, ROE has gone one step further by developing the groundbreaking Effect Simulation Pre-Programmed Software for PCs, elevating the user experience to even greater heights. With intuitive controls and user-friendly software, your creative team will unlock a new level of convenience and control, enabling them to unleash their imagination and create unforgettable spectacles.

Versatile with More LED Products

Designed with versatility in mind, Apsaras features triangle LED panel that delivers mesmerizing visual effects. We constantly expand our range to include LED circles, LED tubes, and other creative pixel-perfect LED products. These captivating shapes allow you to create immersive environments and captivate your audience like never before.

Applications

Concert

Art Space

Theater

Specifications

Type of motor	Powered Winch	Signal Winch
Dimensions	250mm x 193mm x 456mm	250mm x 193mm x 456mm
Weight	12kg / 26.46lbs	11.5kg / 25.35lbs
Power Consumption Max / Average	300W / 150W	200W / 100W
BTU Max / Average	1025 / 475	685 / 315
Power supply	100~240Vac; 50Hz – 60Hz	100~240Vac; 50Hz – 60Hz
Output voltage AC/DC	100~240Vac; 50Hz – 60Hz /36Vdc	100~240Vac; 50Hz – 60Hz
Max output current AC/DC	13A/3A	14A
Lifting height	7M	7M
Lifting Precision	≤2mm	≤2mm
Load on cable	0.5kg-3kg	0.5kg-3kg
Lifting speed	0-0.5M/S	0-0.5M/S
Control	DMX512 (RDM) over Art-net	DMX512 (RDM) over Art-net
Signal Connection	Wired connection / Wireless connection	Wired connection / Wireless connection
Certifications	BGV C1, CE, ETL, DGUV-17, RoHS	BGV C1, CE, ETL, DGUV-17, RoHS

Apsaras Triangle	APT4
Pixel Pitch	4.8mm
Max Brightness	1500nits
Panel Dimension	1000mm side length
Panel Area	0.433m²
Panel Pixel Quantity	18539
Panel Weight	4.9kg / 10.80lbs
Power Consumption Max / Average	110W / 55W
BTU Max / Average	375 / 175
Transparency	Solid
Serviceability	Rear
Max. Hanging (panels)	1
LED Configuration	SMD 1921 White
Viewing Angle Horizontal	160°
Viewing Angle Vertical	160°
Scan Ratio	1/15
Refresh Rate	3840Hz
Gray Scale	14bit
Frame Material	Magnesium Alloy + Carbon Fiber
Processing Platform	Brompton
Operational Temp / Humidity	-20°~45°C, 10~90%RH	-4°~113°F, 10~90%RH
Storage Temp / Humidity	-40°~60°C, 10~90%RH	-40°~140°F, 10~90%RH
IP Rating	Indoor (IP40)
Certifications	CE, ETL, FCC, RoHS

Notes: The Specifications are for reference, actual values may vary.