



What is Orbiter?

Orbiter is an ultra-bright, tunable, and directional LED fixture from ARRI. All systems in Orbiter are completely new and designed with versatility in mind.

Orbiter's new six-color light engine delivers a wide-color gamut and outstanding color rendition across all color temperatures along with industry-leading, smooth dimming from 100 to 0%. With its changeable optics, Orbiter can transform into many different types of lampheads including open face, soft light, domes, and other future possibilities. Orbiter's state-of-the-art technology and versatile design makes it an optimal lamphead for today and for the future with endless possibilities for updates, configurations, and enhancements.



A Wide Variety of Changeable Optics







allows for optics with vastly different properties to be connected to the fixture.



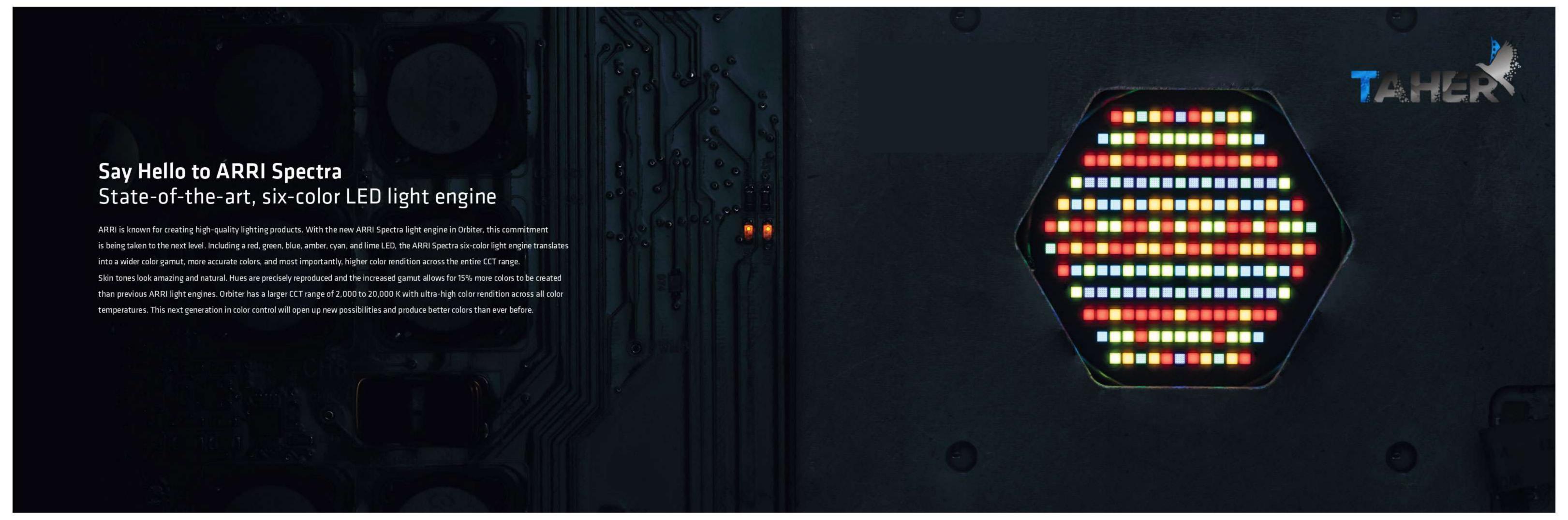




rojection

Changeable optics is the core innovation in Orbiter. With a wide variety of optics to choose now and in the future Orbiter transforms into the perfect light for your application without sacrificing beam, output, or color quality. The Quick Lighting Mount (QLM) in Orbiter







Sheer Output Immense brightness with full color tunability

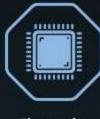
Orbiter is an extremely bright and powerful, directional LED fixture with an output similar to that of the corresponding HMI systems. Orbiter's high, yet tunable, ARRI Spectra light engine output can create hard shadows with defined edges. This revolutionary light engine is 76 times smaller than the L10's light engine but produces the same power draw and greater output. A dense arrangement of over 200 LEDs Orbiter a point source-like aperture while maintaining full-color tunability with a new six-color LED mixture. These cutting-edge LEDs have never been used before in a luminaire and the arrangement creates a homogeneous color-beam field with amazing brightness.



Technology Unleashed Fast, powerful, and full of possibilities



A new era of digital lighting is truly upon us. Orbiter is the most technologically advanced luminaire ever to be created for image capture while maintaining superior color fidelity.



With state-of-the-art electronics, Orbiter is able to perform more tasks than previous luminaires. Orbiter's processor is four times faster than the SkyPanel with 125 times more memory, setting the stage for extensive software features and updates in the future.



Orbiter includes a lightweight internal power supply and a 3-pin XLR battery input for 48 V -- batteries.

Battery



Orbiter's housing is weatherproof. To ensure no defects, Orbiter's ports (such as power, or XLR (for DMX)) require additional protection. The rain cover is mandatory when the Orbiter is tilted at a horizontal angle or facing downward, and recommended from 0° to 75° upwards.



Using a combination of three dimming techniques, Orbiter's cutting-edge electronics provide smooth dimming down to zero without color changes or jumps.





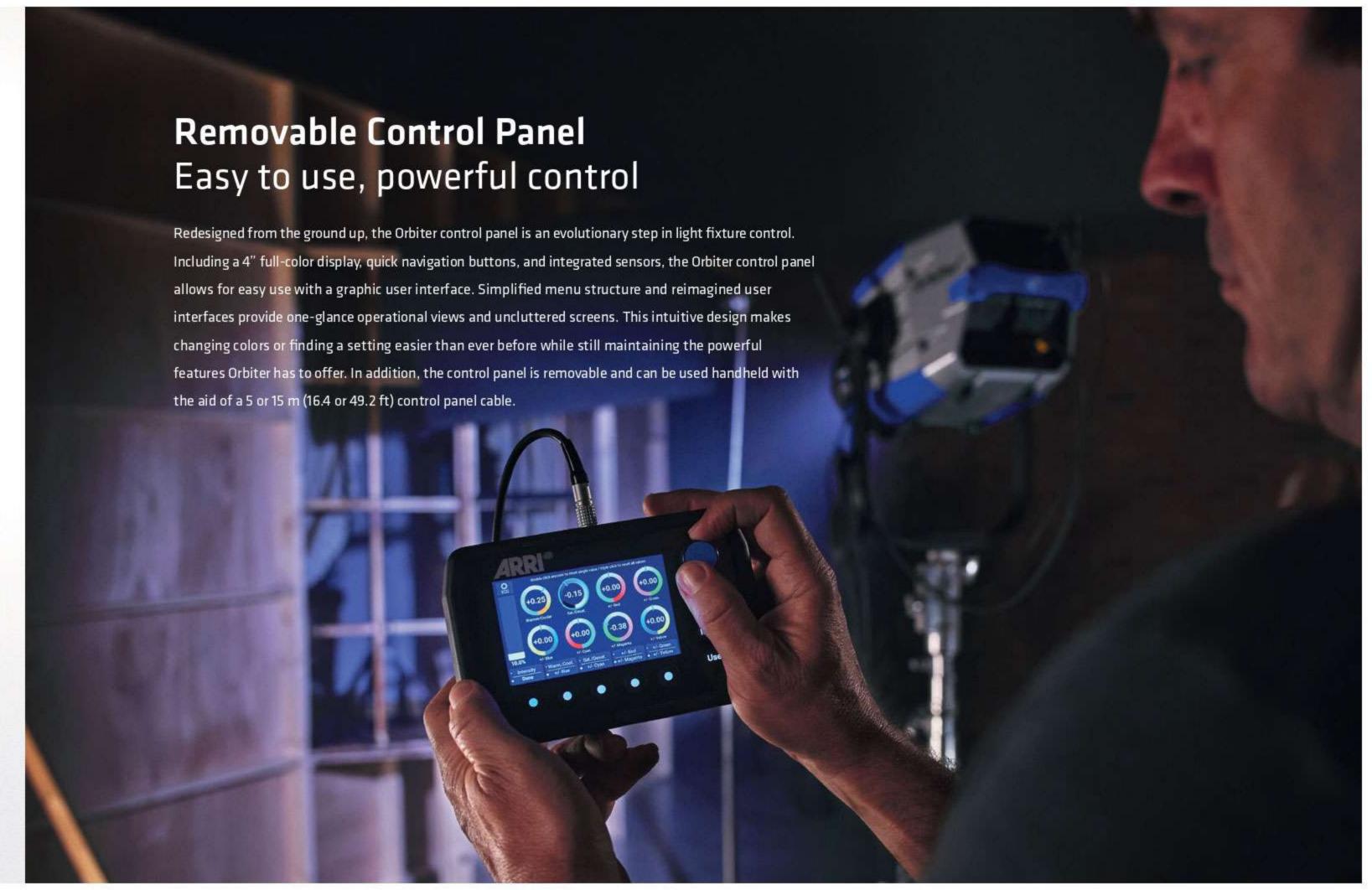
Powerful Software Packed with amazing features

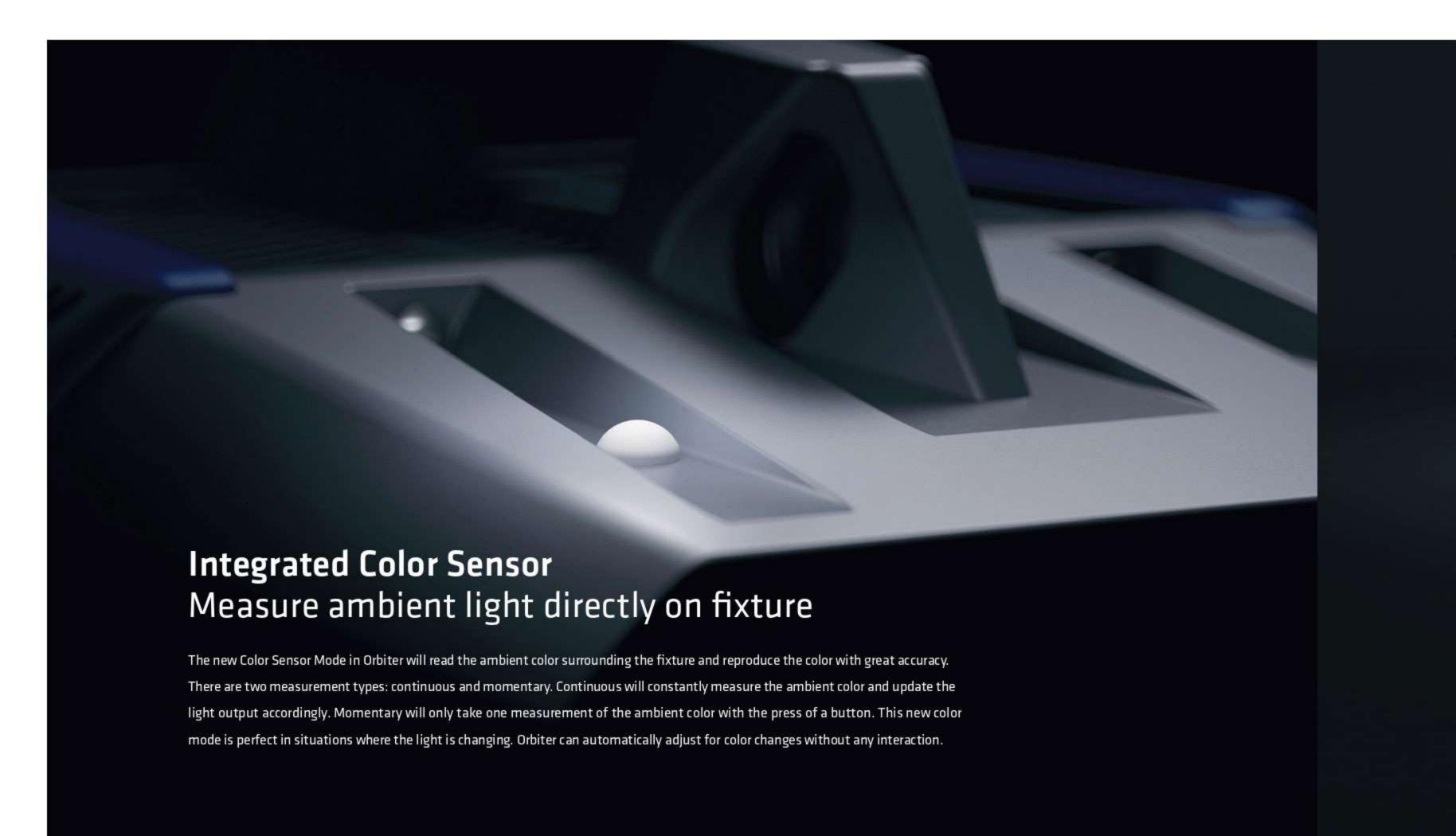


Orbiter's new software called LiOS (Lighting Operating System) includes all the innovative and groundbreaking features from SkyPanel plus others, making Orbiter one of the most fully-featured luminaires on the market. LiOS' eight-color modes are available including CCT, HSI, individual color, x/y coordinates, gel, source matching, lighting effects, and the new color sensor mode which measures ambient light and recreates it through Orbiter's output. Other new features in LiOS include simplified DMX modes, operational modes to optimize the fixture's performance, over 240 slots for favorites to be stored, optics recognition, multi-language support, custom boot screen, and many more still to come.



Lighting Operating System

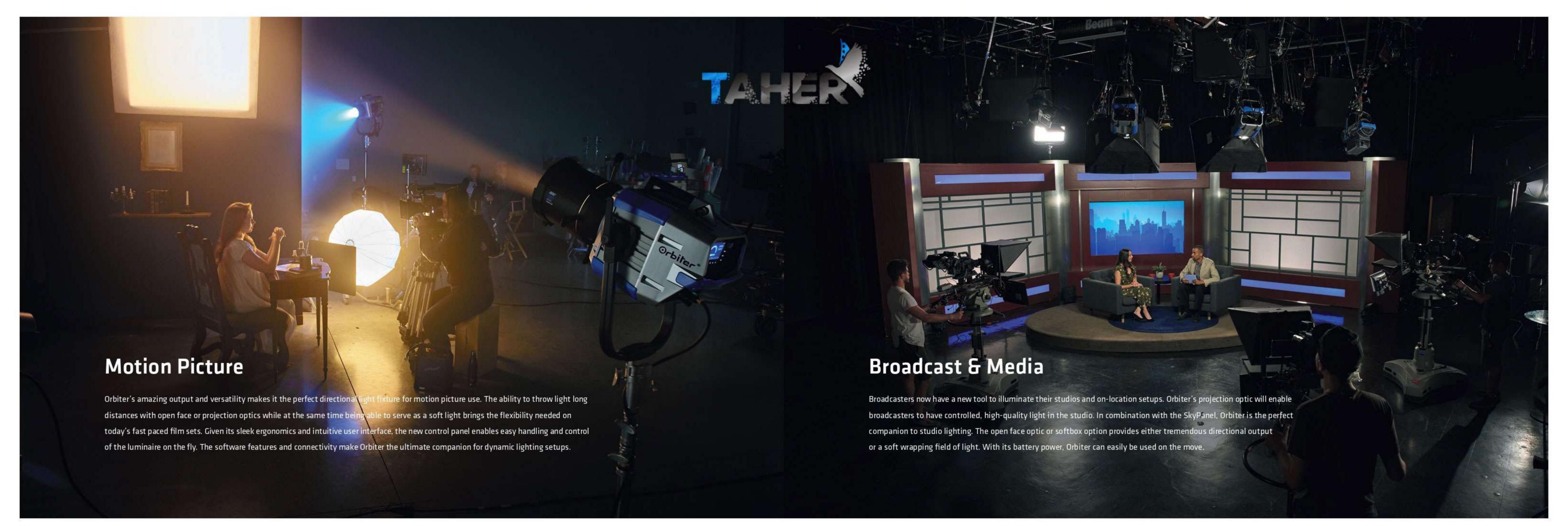


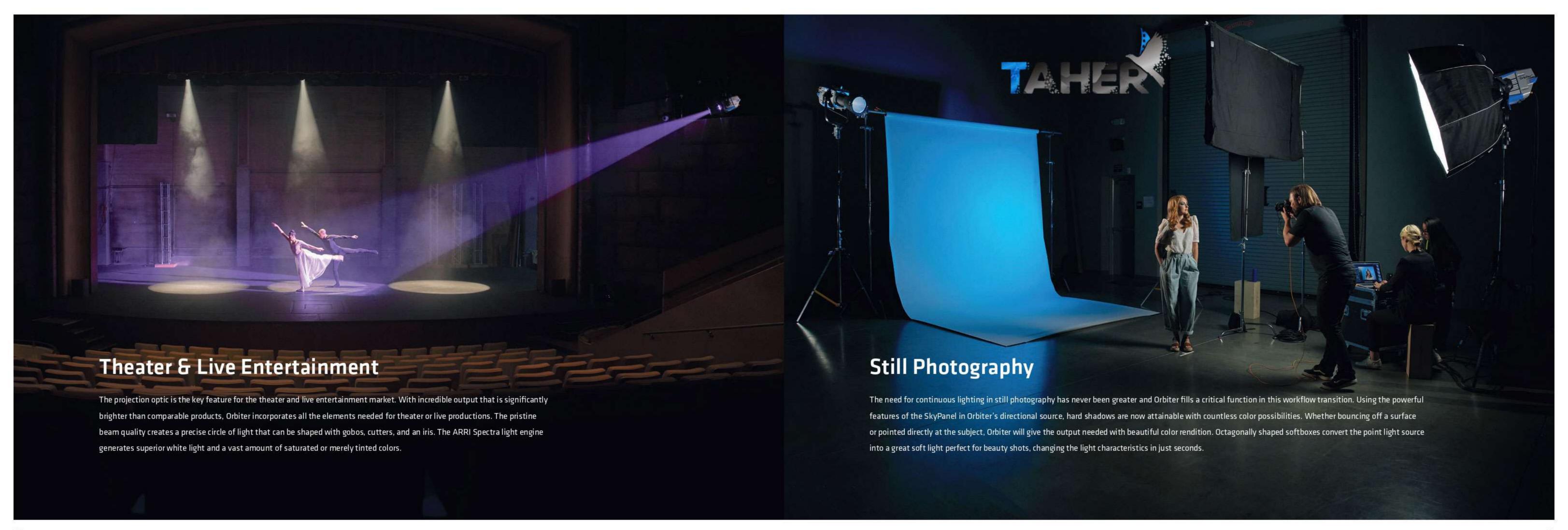


Full Suite of Sensors Generating more information for more control

A digital light of the future requires data. Orbiter is aware of the world around it with a variety of sensors that allow for advanced operations, smart automations, and a stream of metadata. Included in Orbiter is a color sensor for measuring the ambient light, a 3-axis accelerometer and magnetometer for sensing the pan, tilt, roll, and heading of the fixture as well as heat sensors for keeping the LEDs and electronics at exactly the right temperature, and an ambient light sensor for automatically dimming the control panel display. All these sensors make for a better user experience and increased control over the fixture. Available data improve workflow also in post production and service.







Your Choice of Optics



The open face optics produce a high-output, directional beam of light in several different beam angles including 15°, 30°, and 60°. Perfect for throwing light long distances or providing a broad swath of light.



Two kinds of projection optics provide the desired output and quality.

The projection optics contain high-end lenses to provide even illumination and color across the entire beam field for superior results. Fixed beam angles available are 15°, 25°, 35°. Wider angles might be added in future.

The zoom projection optics allow for flexibility in all kinds of application.



The dome optics are fabric spheres available in three different diameters - small, medium and large, ranging from 30 cm (12") up to 100 cm (39") diameter.

The dome emits omnidirectional light, great for illuminating a large area with a beautiful, soft quality of light.



The softbox adapter creates a direct mounting point for Chimera and DoPchoice products. With easy attachment and no additional optical elements needed, the softboxes allow for a controlled soft light with amazing output.

Built to Last Constructed with great care from durable materials

Made in Germany to the high standards for which all ARRI products are known, Orbiter is built to last – constructed from resilient materials and assembled by hand with great care. The combination of an aluminum core with fiberglass-reinforced thermoplastics results in a solid fixture that can withstand heavy daily use.

The electronics have been designed to last beyond a minimum of 50.000 hours, and to be easily serviceable. The LED light engine even allows for recalibration, further enhancing Orbiter's credentials as a long-lasting, high-quality fixture. As with all ARRI products, a high return on investment is ensured by uncompromising engineering standards.









Technical Data

	Orbiter
Optical System	Changeable optics
Light Aperture	42 mm / 1,66", without optics
Beam Angle	80° Half Peak Angle, without optics
Weight	Fixture only: 11,7 kg / 25.8 lbs Manual Version: 14,2 kg / 31.3 lbs Pole Op Version: 14,9 kg / 32.9 lbs
Handling	Aluminum yoke with quick release, high strength tilt lock, pole operation option (pan and tilt)
Mounting	28 mm Spigot (Junior Pin)
Tilt Angle	+/- 90° in dry location, +75° / -90° in wet location with rain cover
Power Consumption	400 W Nominal, 500 W Maximum
Voltage Input Range	100 - 240 V~, 50 - 60 Hz
Mains Power Connection	powerCON TRUE1 TOP (Bare Ends / Schuko / Edison, Japanese, Chinese cables available)
DC Voltage Range	48 - 52 V
Battery Connector	3-Pin XLR Connector (Pin 1: negative, Pin 2: positive)
White Light	calibrated 2,000 K to 20,000 K continuously variable correlated color temperature
Color Modes	CCT, HSI, RGBACL, gel selection, x/y coordinates, source matching, lighting effects, and color sensor mode
Color Temperature Tolerance	3.200 to 5.600 K: +/- 100 K (nominal), +/- 1/8 Green-Magenta (nominal)
High Color Rendition Mode	3.200 to 5.600 K: CRI Average > 98 TLCI Average > 95 TM-30 Average > 94
Green-Magenta Adjustment	Continuously adjustable between Full Minusgreen to Full Plusgreen
Dimming	Smooth, 100 to 0 %, continuously, linear / exponential / logarithmic / "S" curve
Connectivity	Removable Control Panel via PoE, 5-Pin XLR in and through, EtherCON in and through, 2 x USB-A, USB-C, SD Card, Sync Input
Control Options	Wireless control via LumenRadio CRMX* (DMX & RDM), Full E1.20 RDM standard implementation with custom & standard RDM commands
Housing Color	Blue/Silver, Black
Ambient Temperature Operation	-20 to +45° C (-4 to +113° F)
Protection Class	
IP Rating	IP 20 without Rain Cover, IP 24 with Rain Cover L2.0037805
Estimated LED Lifetime (L70)	50,000 hours
Estimated Color Shift Over Lifetime (CCT)	+/-5%
Certifications &	CE, CB, ENEC, cNRTLus, FCC, ICES
Declarations of conformity	pending: PSE, KC, SRRC and more

All specifications are preliminary typical values. Subject to change without notice.

*Brand: LumenRadio AB, Equipment: CRMX TiMo, Model: 200-1502, Product: Orbiter 2.4G Wireless Control Module, Frequency Range: 2402 - 2480 MHz, Frequency of Operation: 2402 - 2480 MHz, Power Output: 17.51 dBm, Number of Channels: 79, Channel Spacing: 1 MHz, Modulation Type: GFSK

