PROLYCHT

Orion 675 *FS*
User Manual

1.EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of 2014/53/EU.

Please note that the above information is applicable to EU countries only.

2. Introduction

Maximum power, maximum color. That’s precisely what the new Prolycht Orion 675 FS LED full spectrum spotlight delivers in a single robust fixture that is built for Film and TV professionals.

The Orion 675 FS is The New Standard.

· RGBACL Hyperlight Color Engine for full spectrum color flexibility

· 1,800K-20,000K CCT Range

· Fresnel performance: Brighter than a 1.2K HMI, double a 2K tungsten

· Patent-Pending Positive Locking clamp for Bowens Mount

· DMX / Ethernet / Bluetooth Mesh / Lumen Radio CRMX (cognitive radio multiplexer) 2.4G Wireless DMX (Data Multiplexer)

· Color Adjustment modes: Warm-Cool & HSI / xy / 6-Color matrix

· Realtime color and brightness tracking control via free ChromaLink App

3. Specifications

Light Aperture	40 mm / 1.57”, without modifiers
Beam Angle	80° Half Peak Angle, without modifiers
Weight	9.5 kg / 21 lbs without yoke 12 kg / 26 lbs with yoke 30 kg / 66 lbs full loaded hard-rolling case
Mounting & Handling	Quick-Release Angled Yoke with 360° Tilt Lock, 28 mm Spigot
Accessory Mount	Bowens S with extra strengthening structures
Optional attachment	Fresnel Lens (15°-50°) 60” Dome softbox 35” Lantern softbox
Voltage Input Range	100 - 240 v~, 50 - 60 Hz
Power	675 W Maximum, Built-in power supply
Color Quality	CRI Average > 97 TLCI Average > 95 TM-30 Average > 94 SSI: 84 @ 3200K, 74 @ 5600K
Mains Power Connection	powerCON TRUE1 TOP (Bare Ends / Schuko / Edison, Japanese, Chinese cables available)
Battery Connector	3-Pin XLR Connector (Pin 1: Negative, Pin 2: Positive)
Battery Voltage Range	46 - 50 vdc
White Light	Calibrated 1,800 K to 20,000 K with G/M adjustment
Color Control	Full R+G+B+A+C+L Gamut Seamless color tuning with HSI color wheel Color tuning in CIExy color space (Rec.709/Rec.2020/Full Gamut) Matching 46 natural/artificial light sources Emulating 318 Rosco/LEE Gels 19 Lighting effects with tunable parameters 6 - Pole Color Matrix Adjustment
Communication	DMX LumenRadio CRMX wireless control Ethernet / Art-Net Bluetooth Mesh Wifi
Dimming	0~100% dimming, 1000 Steps, linear / exponential / logarithmic / Curve
Control Options	Full Color Control panel 5-Pin DMX in/out, 27 DMX modes LAN port with Built-in Art-Net ChromaLink App Support 3rd party App control: Blackout, Luminair, and more
Fan Mode	Silent, Low Noise, Medium Speed, High Speed, Auto
Firmware Upgrade	Firmware upgradable via Flash Drive
Operating Temperature	-20℃ to +40℃
IP Rating	High IP weather rated
Estimated L70 Lifetime	50,000 hours

4. Photometrics

· Measured in lx

Light modifier	Beam Angle	CCT	Distance(m)		
			3m/9.8ft	5m/16.4ft	7m/22.9ft
Bare Light	80°	5600K	2,220	830	538
		3200K	1,900	706	458
55° Reflector	55°	5600K	5,260	1,980	1,140
		3200K	4,400	1,700	973
30° Reflector	30°	5600K	14,000	4,400	2,280
		3200K	11,800	3,770	1,950
Fresnel Lens (Flood)	50°	5600K	9,110	3,400	1,860
		3200K	7,700	2,930	1,620
Fresnel Lens(Spot)	15°	5600K	28,100	9,810	4,900
		3200K	23,900	4,190	4,190
Fresnel Lens(Medium)	30°	5600K	18,108	6,690	3,390
		3]	15,300	5,650	2,890

ANNEX 1

PRODUCT SPECIFICATIONS

1.BLE (Bluetooth Low Energy)

Intended Use / Category :	Non-Specific Short Range Device
Frequency range (MHz):	2402~2480
Modulation :	GFSK
Antenna type and Gain:	FPC, 0.99 dbi

2. 2.4G Wireless DMX

Intended Use/Category :	Non-Specific Short Range Device
Frequency range (MHz):	2402~2480
Modulation :	GFSK
Antenna type and Gain:	FPC,0.99 dbi

RF exposure information: The Maximum Permissible Exposure (MPE) level is calculated based on a distance of d=20 cm between the device andthe human body. To maintain compliance with the RF exposure requirement, a separation distance of 20 cm between the device and the human should be maintained.

FCC Statement:

"This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help."

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

§ 15.105 Information to the user.

For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause

harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.