ETC

Halcyon Graphite

High End Systems



Type(s)

Project

Date

Notes

GENERAL INFORMATION

Halcyon framing fixtures redefine standards for rental operations and fixed installations world-wide. Halcyon Graphite, the middle-sized fixture of the weather-rated Halcyon options, delivers up to 42,300 lumens from our Alloy light engine so users can choose to prioritize the "Highest Fidelity" or the "Ultra-Brightest" output. Exceptional performance in color, framing precision, and overall consistency, as well as an IP54 rating, make this generation of Halcyon the ultimate choice for any venue.

Applications

- Rental
- Outdoor Festivals
- Theatres
- Events
- Award Shows
- Schools
- Lecture Halls
- TV Studios
- House of Worship

Product Features

- 852 W Alloy White Light Engine capable of both Ultra-Bright and High Fidelity output
- Fixture output exceeding 42,300 lumens with P3 (70 CRI) and 30,300 lumens in P1 (93 CRI)
- High quality 13-lens optic system
- Extremely powerful 4.3°–55° zoom
- Dual wheel CMY and single wheel CTO color mixing system
- Six-position plus open color wheel
- Increased angle framing system for enhanced thrust and angle control and greater than 60% individual flag coverage
- 16-blade iris for extremely tight beam effects
- Proprietary Trifusion diffusion system with seamless diffusion transition in all optical positions
- Dual rotating gobo wheel with seven patterns plus open
- Dual prisms with simultaneous insertion
- Rotating animation wheel with more than 90° incline control
- Optional RigPOV camera kit provides livestream camera feed from the fixture's perspective
- Weather-tested and rated to IP54

ORDERING INFORMATION

Model	Description
HAL-GR	Halcyon Graphite, in Carton with Recyclable Foam inserts, Black
HAL-GR-CAM	Halcyon Graphite with RigPOV, in Carton with Recyclable Foam inserts, Black
RC-HAL-GR	Road Case for Halcyon Graphite, Includes Molded Inserts for two fixtures

Color Options: Fixtures ship standard in black. White available by request.
Included Accessories: Fixture includes two (2) 180 mm single-hole Omega brackets, one (1) fixture power cord - bare ends to powerCON® TRUE1 compatible connector, and a safety cable.

Accessories

Model	Description
ACC-HAL-GR-TH	Top Hat, Snoot for Halcyon Graphite
ACC-HAL-GR-SPS	SpotPilot Side Handle with Iris and Intensity Control for Halcyon Graphite
ACC-HAL-GR-SPR	SpotPilot Rear Handle with Iris and Intensity control for Halcyon Graphite
CT-5914	Multiverse Connect Module, 2.4 gHz

PRODUCT SPECIFICATIONS

Source

Engine	Alloy Dual Color Rendering LED Engine
LED Details	852 W
Field Lumens	See photometrics on page 4
Max Integrating Sphere Lumens	42,300 @ Ultra-Bright / 30,300 @ High Fidelity
LPW	39 / 28
LED Life	50,000 hours
Native CCT	6000 K

Color

Color Mixing	Dual wheel cyan, magenta, and yellow
Color Temperature	Single wheel CTO variable down to 2200 K
Color Wheel	Six (6) dichroic colors plus open

Optical

Beam Angle Range	4.3°–55°
Gate Size	23 mm
Aperture Size	152 mm
Pattern Projection	Dual rotating and indexable wheels with seven (7) interchangeable patterns plus open
Animation	Bi-directional rotating animation wheel with linear insertion and greater than 90° incline control
Prism	Five-facet star and four-facet linear rotating prism with simultaneous insertion
Diffusion	Proprietary Trifusion diffusion system with seamless diffusion transition in all optical positions
Iris	16-blade iris
Framing	Four-plane, thrust/angle framing system with improved low thrust control and 180° module rotation
Flicker Control/Hz Range	2.4 kHz, 16 kHz, and 25 kHz

Control

Input Method	DMX (5-pin) or Ethernet
Protocols	DMX via RS-485 Art-Net or sACN via Ethernet
Ethernet Pass-Thru	Passive Ethernet in and thru with and without power
Data Conversion	Patented data conversion system for Ethernet to DMX
Modes (Footprint)	Standard (64 channels)
RDM Functions	Yes
UI Type	Full-color graphical UI with 6-button navigational control NFC configuration
Local Control	Yes
Dimming Performance	16-bit, DMX controlled
Wireless	Multiverse via optional Multiverse Connect Module (Model Number: CT-5914)

Electrical

Voltage Range	100–240 V 50–60 Hz
Input Method	REAN® power X Series Connectors
Wattage	1450 W
Current (Max)	15.00 A @ 100 V 8.00 A @ 240 V
Fixtures per Circuit	1 fixture (R20 module or similar) Note: REAN power X Series connector rated for 20 A (120 V/60 Hz) and 16 A (240 V/50 Hz)

Thermal

Ambient Operating Temp	-20°C to 40°C (-4°F to 104°F)
Fan Mode	Standard, Studio, and Linear Continuous control channel

Physical

Pan and Tilt Range	630/540° pan, 260° tilt
Max Pan/Tilt Speed	360° in 2.54 s/180° in 1.67 s
Materials	Steel and aluminum frame with aluminum and molded plastic covers
Color Options	Black, white by request
Mounting Options	Any orientation
IP Rating	IP54, for use both indoors and outdoors
Weight	36 kg (79.4 lb)
Included Accessories	X Series IP65 to bare end fixture tail Two (2) 180 mm single-hole Omega brackets Safety cable

Warranty

Warranty Details	etcconnect.com/Warranty

Regulatory & Compliance

Approved regulatory standards	cETLus Listed Listed to UL 1573 Certified to CSA STD. C22.2 No: 166 CE Compliant UKCA Compliant CB Certified
Complies to the ROHS directive	Yes

Safety

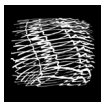
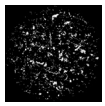
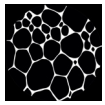
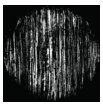
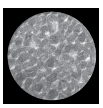
Safety	Minimum distance to illuminated surface = 4.0 m (13.1 ft) Minimum distance from fixture head to combustible materials = 0.1 m (4.0 in)

Notes: All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. Thermal conditions can be affected by ambient temperatures and orientation.

FEATURE DETAILS

Rotating Gobo Details

Outside Diameter	27 mm (1.06 in)
Image Diameter	17 mm (0.67 in)
Materials	1.1 mm fused silica

Rotating Gobo Wheel 1	Rotating Gobo Wheel 2
1 - Wiggle Block	1 - Texture Drops
	
2 - Mycelium Patch	2 - Lovely Bubbly
	
3 - Bob's Brush	3 - Art Ducko
	
4 - The Claw	4 - Window Matrix
	
5 - Cut Cone	5 - Swirly Gig
	
6 - Split-S	6 - Fenced In
	
7 - Ice	7 - The Only Way Is Up
	

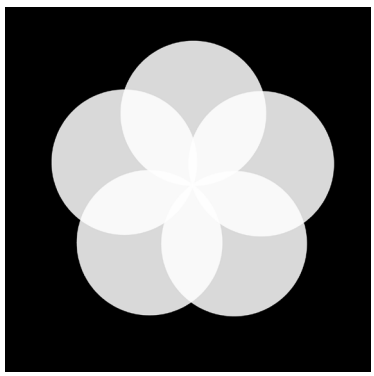
Color Wheel Details

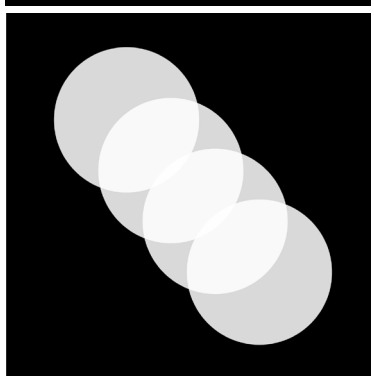
Shape	Interchangeable wedge
Materials	1.1 mm glass Borofloat

1 - Red	2 - Blue
	
3 - Yellow	4 - Purple
	
5 - Orange	6 - Dark Blue
	

Prism Details

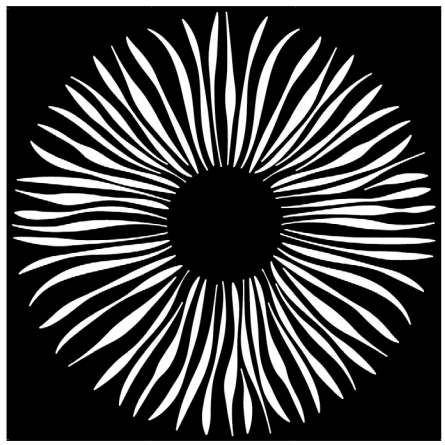
Movement	Two prism flags with dual insertion
Materials	Molded optical glass





Animation Wheel Details

Movement	Bi-directional continuous rotation with linear insertion with greater than 90° angular path range
Materials	0.8 mm aluminum



RigPOV (Optional)

Camera Type	1080p low-latency camera
Communication	NDI HX, RTSP, RTMP, SRT
Connection	RJ45 port in fixture base, replaces Ethernet thru connection
Zoom/Focus	20x motorized zoom and focus
Mounting	Exterior mounted with external screws for easy conversion
Weather Rated	Yes (IP54) when installed



PHOTOMETRIC DATA

6500 K

	Degree	Candela (UB/HF)	Field Lumens (UB/HF)	Power Usage	Lumens Per Watt (UB/HF)
Narrow	4.3°	2,421,341 / 1,786,302	11,483 / 8,352	852 W	13 /10
Medium	26°	246,892 / 175,062	33,527 / 23,611	852 W	39 / 28
Wide	55	51,400 / 24,768	33,505 / 23,719	852 W	39 / 28

5600 K

	Degree	Candela (UB/HF)	Field Lumens (UB/HF)	Power Usage	Lumens Per Watt (UB/HF)
Narrow	4.3°	1,883,101 / 1,536,265	8,930 / 7,183	852 W	10 / 8
Medium	26°	192,010 / 150,558	26,074 / 20,306	852 W	31 / 24
Wide	55	27,352 / 21,301	26,057 / 20,399	852 W	31 / 24

4400 K

	Degree	Candela (UB/HF)	Field Lumens (UB/HF)	Power Usage	Lumens Per Watt (UB/HF)
Narrow	4.3°	1,692,937 / 1,286,227	8,029 / 6,014	852 W	9 / 7
Medium	26°	172,620 / 126,053	23,441 / 17,001	852 W	28 / 20
Wide	55	24,589 / 17,834	23,426 / 17,079	852 W	27 / 20

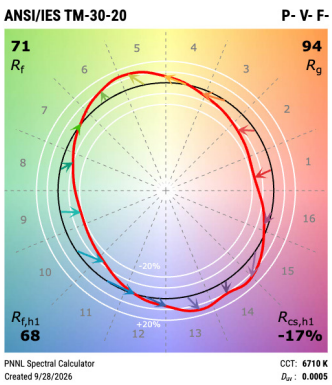
3200 K

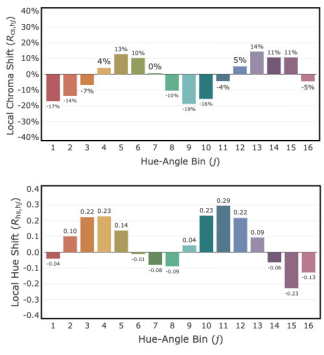
	Degree	Candela (UB/HF)	Field Lumens (UB/HF)	Power Usage	Lumens Per Watt (UB/HF)
Narrow	4.3°	1,464,963 / 1,089,689	6,947 / 5,095	852 W	8 / 6
Medium	26°	149,375 / 106,792	20,285 / 14,403	852 W	24 / 17
Wide	55	21,278 / 15,109	20,271 / 14,469	852 W	24 / 17

To determine center beam illumination in footcandles at any throw distance (ft), divide candela by the throw distance (ft) squared. ftcd = candela/ft^2

To determine center beam illumination in lux at any throw distance (m), divide candela by the throw distance (m) squared: lux = candela/m^2

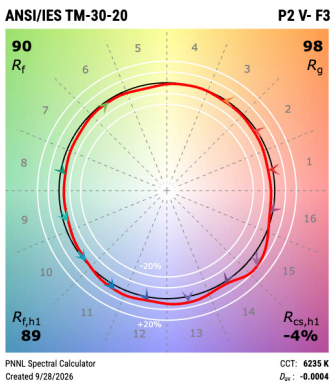
Ultra-Bright TM-30

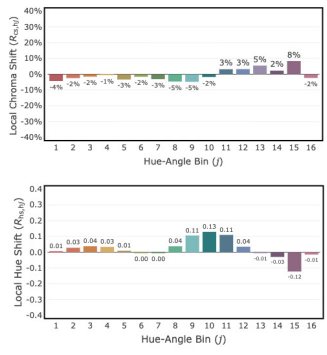




Additional Color Metrics	
CRI R_a (R_9)	71 (-22)
TLCI	48

High Fidelity TM-30





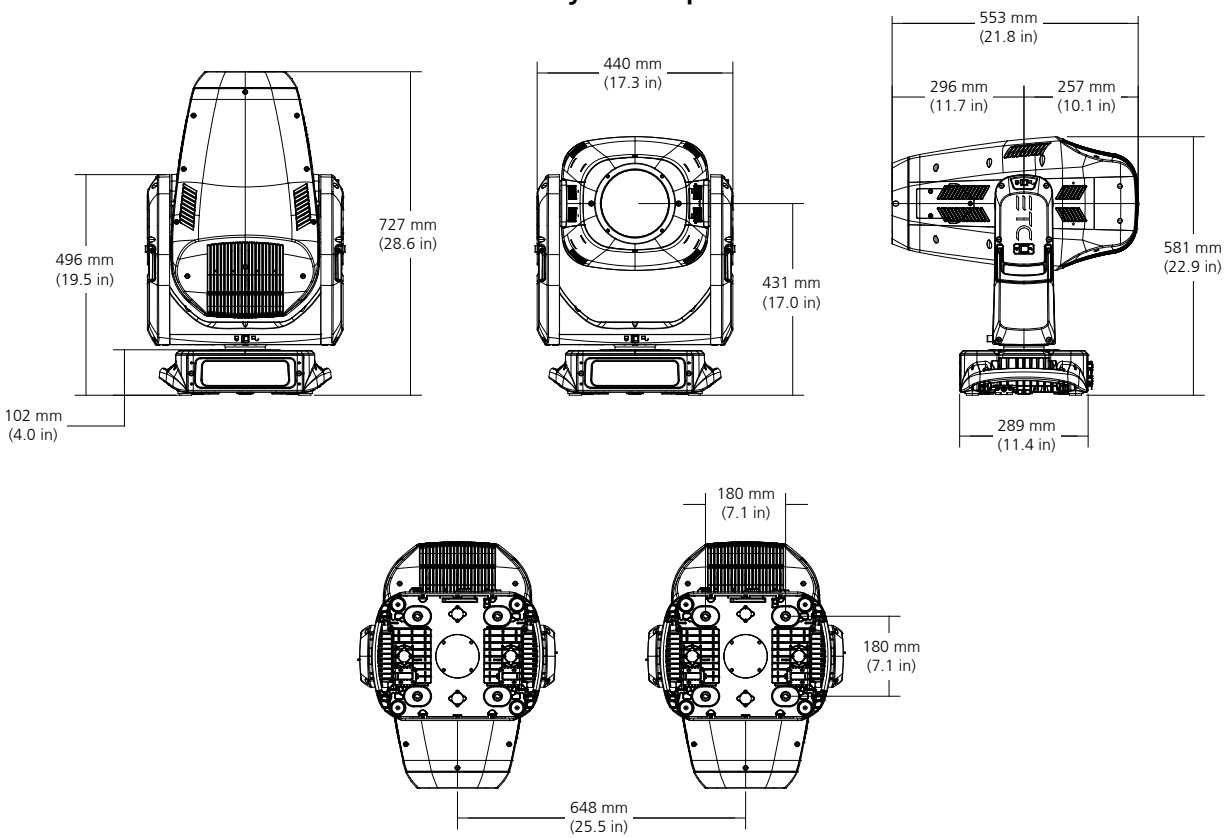
Additional Color Metrics	
CRI R_a (R_9)	93 (76)
TLCI	93

Product Dimensions

Model	Height		Width		Depth		Weight	
	in	mm	in	mm	in	mm	lb	kg
Halcyon Graphite**	28.6	727	17.3	440	11.4	289	79.4	36
Halcyon Graphite in Box with Foam Insert	33.9	861	20.8	529	17.3	440	92.0	41.8

**Does not include mounting hardware

Halcyon Graphite





WEATHER PROTECTED

Halcyon Graphite's rain-proof and dust-proof design allows it to be used in all types of weather and climates. Thanks to advanced IP54 design features and hydrophobic filtering techniques Graphite can be used outdoors just as readily as indoors, and all without additional maintenance, vacuum seal requirements, or specialized tools.

Outdoor-related features

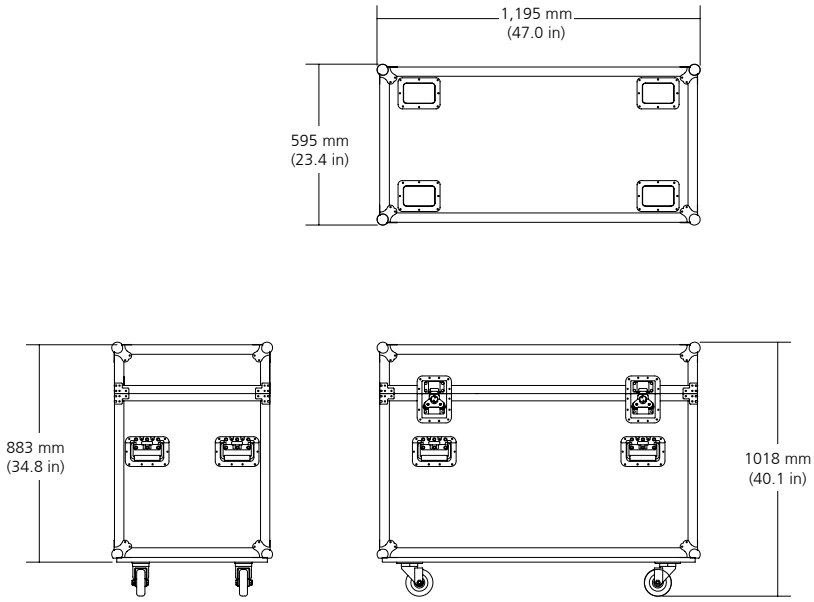
- Rain-Proof
- Dust-Proof
- Hydrophobic Air Filtering
- Cold Weather Preheating
- Control Loss Sun Protection
- Patented Defogging Technology

ADDITIONAL ORDERING INFORMATION

Additional Accessories

Model Number	Description
ACC-HAL-GR-CAM	RigPOV accessory, existing fixture install kit
OB180-3	Omega bracket, 180 mm three-hole, black
OB180-1	Omega bracket, 180 mm single-hole, black (Included)
T1PA-A	Fixture Power Cord Upgrade, 5 ft TRUE1 TOP to Parallel Blade U-Ground (Edison)
T1PA-SP	Fixture Power Cord Upgrade, Stage Pin to powerCON TRUE1 TOP, 20 A
T1PA-L620	Fixture Power Cord Upgrade, L6-20 to powerCON TRUE1 TOP, 20 A
T1PA-L520	Fixture Power Cord Upgrade, L5-20 to powerCON TRUE1 TOP, 20 A
MEGA-CLW	MegaClaw™
HALF-COU	Half-Coupler, 2" Alloy, Truss Clamp
MI-HAL-GR	Molded Insert for Halcyon Graphite, Black

Optional Roadcase Dimensions



Case Weight:
80kg (176 lb)
Includes 2 Molded Inserts and no Fixture

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