

amaran

amaran Ray 120c One Sheet

Main Features

- Ultra-compact, **120W output full color COB light**
- **Compact power for on-the-go:** Slim (5.1cm), lightweight (599g) body that's quick to pack, mount, and carry
- **Best-in-class output:** Up to **6,850 lux @ 1m (bare)** – 22%+ brighter than amaran 150c with nearly 85% reduction in size¹
- **True-to-life, OmniColor light engine:** Enhanced, fuller color spectrum with expanded red and blue ranges for cleaner whites, truer skin tones, and more accurate color
- **Wireless amaran Ace E-Lock:** Cable-free operation for **35 mins with amaran Peak** or 46 mins with amaran Peak²
- **Compatible with USB-C PD 3.0** power banks and chargers for ultimate portable power flexibility
- **IP54 weather-resistant design:** Dust & splash resistant – ideal for wind, light rain, sand, or humidity
- Adaptive control with **FlowTurn knob:** Tactile feedback when adjusting lighting settings with speed or precision
- Instant, one-tap pairing to the amaran app via **built-in NFC**
- Included **Octa Dome 30:** 30cm (1ft) one-snap setup softbox
- Included **Ace Lock to Baby Pin Adapter Grip** for quick-mounting to light stands or handheld use with portable battery, with secure silicone strap for securing power source
- **2,300K to 10,000K ultra-wide adjustable color temperature** (1,800K to 20,000K CCT with CCT+ Mode)
- **Green-magenta adjustment** for color-accurate skin tones
- Recreate any color **with 360° full color control:** HSI (hue, saturation, intensity) and RGB color modes
- **Color accurate light:** CRI: **95+**, TLCI: **95+**, TM-30 Rg: **100**, TM-30 Rf: **94**, SSI (Tungsten): **87**, SSI (D56): **80**
- **Metal, full-size Bowens Mount** compatible with optional Mini Reflector, Mini Fresnel, & other Bowens Mount modifiers
- **Multiple power options:** Supports amaran Ace E-Lock, USB-C PD3.0, and DC 12V-24V power input methods
- **Integrated 1/4-20in screw mount** for easy attachment to tripods, light stands, or other mounting solutions
- Instantly adjust light settings in **Quick Operation Mode**
- Long press and double click **Custom Shortcuts**
- **High-Speed Photography Mode** and **Studio Mode**
- **0-100% stepless** brightness control
- **12 lighting FX:** Fireworks, Faulty Bulb, Lightning, TV, Pulsing, Strobe, Explosion, Fire, Paparazzi, Welding, Cop Car, Party Lights
- Adjustable **Silent or Smart fan mode**
- **Low fan noise:** Max 28dBA at max. output
- **Simplified, colored menu screen** for easy operation
- Light effortlessly with wireless **amaran app control**
- **All-in-one creator kit** with included **carrying bag**

¹ Size reduction measured by product volume vs. amaran 150c.

² Power output limited to under 50% when used with the amaran Peak 75.



Product Description

Designed for creators on the move who need more punch, the amaran Ray 120c is an ultra-compact, 120W full-color point-source LED light powered by the OmniColor light engine – delivering class-leading output and true-to-life color in a slim, travel-ready body. With an IP54-rated build for real-world shoots, amaran Ace E-Lock compatibility, and simplified USB-C PD power, the amaran Ray 120c moves effortlessly from outdoors to the studio.

Ultra-compact power for on-the-go. Keeping the ultra-compact footprint of the amaran Ray 60c, the amaran Ray 120c remains slim (5.1cm / 2.0in) and lightweight (599g / 1.32lbs) – comparable in size and weight to mirrorless camera bodies – yet still retains a full-size Bowens Mount. This compact build lets you travel lighter and set up faster in tight spaces, on the go, and between locations.

Best-in-class brightness. The amaran Ray 120c outshines competing ultra-compact COB lights, delivering up to 6,850 lux at 1m without accessories – 22% increase in output vs. the amaran 150c – while being nearly 85% smaller in size. Or pair with the optional Mini Reflector or Mini Fresnel for even more punch.

True-to-life color with OmniColor. Powered by the OmniColor light engine, the amaran Ray 120c reproduces light that looks true-to-life – both on camera and to the eye. Building on amaran's previous full-color chipset, OmniColor expands the red and blue ranges to deliver a fuller, more balanced spectrum of light – achieving SSI scores of 87 (Tungsten) and 80 (D56). What you see is what you capture: cleaner whites, truer skin tones, and more accurate color that stays consistent on camera.

Ultimate portable power flexibility. In addition to the included DC power adapter, the amaran Ray 120c is built for mobility with amaran Ace E-Lock and USB-C PD support. Run for 35 minutes at 100% output with the amaran Peak via Ace E-Lock for a secure, cable-free setup. Or power with USB-C PD power banks and chargers – eliminating NP-F or V-Mount batteries while keeping your setup streamlined from outdoor locations to studio shoots.

Instant, effortless controls. The amaran Ray 120c is built to make setup and adjustments faster and more intuitive. Use the FlowTurn knob to fine-tune one step at a time when you need precision or spin quickly to accelerate through settings when efficiency is key. In the amaran app, pair your amaran Ray 120c or multiple lights in the Ray family with just a tap via built-in NFC – even before turning it on.

What's in the Box

Name	Qty
amaran Ray 120c	1
amaran Ace Lock to Baby Pin Adapter Grip	1
amaran Octa Dome 30	1
amaran Octa Dome 30 Diffusion Cloth	1
amaran Octa Dome 30 Light Control Grid	1
amaran AC to DC 150W Power Adapter (0.5m)	1
amaran AC Power Cable (4m)	1
amaran Ray Carrying Bag	1

amaran Ray 120c Photometrics

CCT	Dis.	No Accessories	Octa Dome 30	Mini Reflector ¹	Mini Fresnel (Spot) ¹	Mini Fresnel (Flood) ¹
2,300K	1m	4,770 lux / 443 fc	1,968 lux / 183 fc	24,500 lux / 2,276 fc	29,900 lux / 2,778 fc	11,540 lux / 1,072 fc
	3m	530 lux / 49 fc	219 lux / 20 fc	2,722 lux / 253 fc	3,322 lux / 309 fc	1,282 lux / 119 fc
3,200K	1m	6,850 lux / 636 fc	2,497 lux / 232 fc	35,600 lux / 3,307 fc	43,100 lux / 4,004 fc	16,620 lux / 1,544 fc
	3m	761 lux / 71 fc	277 lux / 26 fc	3,956 lux / 368 fc	4,789 lux / 445 fc	1,847 lux / 172 fc
4,300K	1m	6,770 lux / 629 fc	2,470 lux / 229 fc	35,400 lux / 3,289 fc	42,600 lux / 3,958 fc	16,480 lux / 1,531 fc
	3m	752 lux / 70 fc	274 lux / 25 fc	3,933 lux / 365 fc	4,733 lux / 440 fc	1,831 lux / 170 fc
5,600K	1m	6,520 lux / 606 fc	2,378 lux / 221 fc	34,000 lux / 3,159 fc	41,100 lux / 3,818 fc	15,840 lux / 1,472 fc
	3m	724 lux / 67 fc	264 lux / 25 fc	3,778 lux / 351 fc	4,567 lux / 424 fc	1,760 lux / 164 fc
6,500K	1m	6,370 lux / 592 fc	2,326 lux / 216 fc	33,300 lux / 3,094 fc	40,200 lux / 3,735 fc	15,520 lux / 1,442 fc
	3m	708 lux / 66 fc	258 lux / 24 fc	3,700 lux / 344 fc	4,467 lux / 415 fc	1,724 lux / 160 fc
10,000K	1m	5,830 lux / 542 fc	2,128 lux / 198 fc	30,500 lux / 2,834 fc	36,800 lux / 3,419 fc	14,190 lux / 1,318 fc
	3m	648 lux / 60 fc	236 lux / 22 fc	3,389 lux / 315 fc	4,089 lux / 380 fc	1,577 lux / 147 fc
Red	1m	1,045 lux / 97 fc	TBD	TBD	TBD	TBD
	3m	TBD	TBD	TBD	TBD	TBD
Green	1m	3,070 lux / 285 fc	TBD	TBD	TBD	TBD
	3m	TBD	TBD	TBD	TBD	TBD
Blue	1m	846 lux / 79 fc	TBD	TBD	TBD	TBD
	3m	TBD	TBD	TBD	TBD	TBD

¹ amaran Mini Reflector and Mini Fresnel sold separately.

amaran Ray 120c Specifications

CCT	Standard	2,300K - 10,000K
	Expanded (CCT+)	1,800K – 20,000K
CRI		95+
TLCI		95+
SSI (Tungsten)		87
SSI (D56)		80
TM-30 RG (Average)		100
TM-30 RF (Average)		94
Max Power Output		120W
Max Power Consumption		140W (USB-C)
Color Chipset		OmniColor
Lumens		8,719 lumens
Beam Angle		70°
Weather Resistance Rating		IP54
Power Supply Methods		USB-C PD 3.0, DC, amaran Ace E-Lock
Operating Voltage	Fixture	DC 12V – 24V
	Power Supply	AC 100V - 240V / 2.5A / 50 - 60Hz
Max Noise Level		28dBA (30°C / 86°F)
Operating Temperature		-10°C - 40°C / 14°F - 104°F
Storage Temperature		-20°C - 80°C / -4°F - 176°F
Control Methods		On-board, amaran App
Firmware Upgradeable		amaran App
Wireless Operating Range		≤80m / ≤262.5ft (Bluetooth)
Screen Type		TFT
Cooling Method		Active Cooling

Dimensions	Fixture	14.5 x 11.5 x 5.1cm / 5.7 x 4.5 x 2.0in
	Octa Dome 30 (Built)	20.0 x 30.0 x 30.0cm 7.9 x 11.8 x 11.8in
	Octa Dome 30 (Collapsed)	34.76 x 18.0 x 6.5cm 13.6 x 7.1 x 2.6in
	AC Power Cable	4m / 13.12ft
	Adapter Cable	0.5m / 1.64ft
	Ace Lock Grip	23.0 x 11.0 x 10.8cm / 9.1 x 4.3 x 4.3in
	Carrying Bag	40.8 x 26.4 x 11.0cm / 16.1 x 10.4 x 4.3in
Weight	Fixture	599.4g / 1.32lbs
	Octa Dome 30	240g / 0.53lbs
	Ace Lock Grip	420g / 0.93lbs
	Carrying Bag	480g / 0.06lbs

Sales & Shipping Information

Product Name	amaran Ray 120c	
	SKU	UPC
amaran Ray 120c (CN)	MP0005018F	6977162459707
amaran Ray 120c (US)	MP0000018G	6977162459714
amaran Ray 120c (UK)	MP0004018H	6977162459721
amaran Ray 120c (EU)	MP0001018J	6977162459738
amaran Ray 120c (JP)	MP0002018K	6977162453187
amaran Ray 120c (AU)	MP0003018L	6977162453194
Packing Dimensions	40.8 x 26.4 x 11.0cm 16.06 x 10.39 x 4.33in	
Net Weight	2.533kg / 5.58lbs	
Gross Weight	3.163kg / 6.97lbs	
Carton Quantity	5 pcs	
Carton Dimensions	59.5 x 42.6 x 29.0cm 23.43 x 16.77 x 11.42in	
Carton Weight	17.115kg / 37.73lbs	