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amaran F22c Data Sheet

Main Features

- 200W Output 2'x2' RGBWW Flexible LED Mat
- 240W Max Power Draw
- 6,420+ lux @ 1 meter (5600K)
- HSI Full Color Control
- Tunable CCT from 2,500K to 7,500K
- Tunable Green-Magenta Adjustment (Plus/Minus Green)
- CRI: 95+, TLCI: 97+, CQS: 96+, SSI (Tungsten): 83+, SSI (D56): 74+
- Stepless Dimming from 0 to 100%
- Sidus Link App Control
- 3 Meter Head Cable Extension
- DMX Control via USB-C to 5-Pin DMX512 In & Out Adapter (Sold Separately)
- 46 Color Gel Presets
- 4 User-Configurable Preset Buttons
- 15 Built-in Lighting FX: Paparazzi, Lightning, TV, Candle, Fire, Strobe, Explosion, Faulty Bulb, Pulsing, Welding, Cop Car, Color Chase, etc.
- Frequency Selection: Tune Out Flicker, Up to +2000Hz Adjustment
- Easy Mounting AC Power Supply with Included Battery Bracket
- Multiple DC Power Solutions: 14.4V/26/28.8V/48V (3-Pin XLR)
- V-Mount Version Available / Gold Mount Version upon request
- Soft Carrying Case Included
- Operating Temperature: -10°C ~ 40°C / -4°F ~ 113°F
- Lantern Accessory with Light Control Skirt (Sold Separately)

What's In the Box

Name	Quantity
amaran F22c RGBWW 2x2 LED Flexible Mat	1
amaran F22c Control Box	1
amaran F22c Head Cable Extension (3m)	1
amaran F22 Support Bracket	1
amaran Flexible Light Right Angle Baby Pin Adapter	1
amaran Flexible Light Straight Baby Pin Adapter	1
Tilting Stand Mount	1
amaran F22 Softbox Frame	1
amaran F22 Diffusion Cloth 1 (1/2 Grid Cloth)	1
amaran F22 Diffusion Cloth 2 (2.5 Stop)	1
amaran F22 Light Control Grid	1
AC Power Supply	1
AC Power Cable	1
amaran Flexible Light Carrying Case	1

Product Description

Introducing the amaran F22c, a high-output, full-color flexible LED mat that offers superb performance and versatility for a variety of users — from filmmakers to videographers, content creators, and even photographers. With 200W of output power, this ultra-lightweight 2'x2' fixture is capable of outputting 6,420+ lux at 1 meter (5600K), surpassing anything else in its class. Install the included foldable softbox and instantly turn this flexible mat into an ultra-thin soft light that will make any subject shine with stellar CRI and TLCI scores of 95+ and 97+. And with stepless dimming from 0 to 100%, you can achieve the perfect light level every time. The F22c features RGBWW LEDs for complete color control, as well as tunable CCT from 2,500K to 7,500K, providing endless possibilities for creative lighting decisions through 360° HSI control, 46 color gel presets, or even up to 15 unique lighting effects. Additionally, with the F22c's Sidus Link app control, you can be sure to always dial in your lighting design.

Building the F22c is quick and convenient with the compact, folding X-Frame that stretches out the F22c into a rigid panel. This frame can be attached directly to a C-Stand grip head using the Straight Baby Pin adapter or onto any standard light stand with the included Right Angle Baby Pin and tilting stand mount, providing an ideal option for all types of filmmakers and creators.

Attach the included softbox, one of two strengths of diffusion, and the fabric grid using the integrated hook-and-loop fabric to further finesse your lighting design and add a beautifully controlled soft light to your scene.

You can also swap out the softbox for an amaran F22 lantern modifier*, allowing you to replicate a volumetric lantern or pancake light with an ultra-light full-color fixture.

With an integrated 3-meter long head cable and the included 3-meter long extension, the F22c can reach out 6 meters away from its compact control box. Engineered from the ground up for the perfect balance of size, weight, and intensity, the F22c's LED and heat dissipation design results in a heavy-weight punch from a flexible feather-weight design.

Each control box is also outfitted with a multi-voltage battery plate so you can use a capable 14.4V battery to achieve half power, or max out the intensity with full power when using compatible 26V or 28.8V batteries. You can also achieve full output when using the AC power supply, each of which comes with a specially designed battery plate bracket for a seamless user experience. And when combined with the F22c's soft carrying case, the F22c becomes a portable light that you can take anywhere for any production.

The Sidus Link app unlocks tools unique to the Aputure and amaran ecosystems, such as Source Match, Color Picker, and Custom FX, all from your phone or tablet. And unique to the newest fixtures in the amaran product line, you can control the F22c using DMX with a special USB-C to 5-Pin DMX512 In & Out Adapter Cable, granting professional-level control to your new favorite flexible light.

*Lantern modifier sold separately

Target Audience

The amaran F22c is ideal for content creators, indie filmmakers, and videographers who need a versatile and literally flexible lighting solution. The RGBWW flexible panel gives users full control over the output and can easily add a splash of color to their scene.

The natural design of the flexible light results in a medium-sized source with ample surface area for an innately soft light while still producing enough intensity to impact the scene. Users who want a 200W chipset in a traditional 2' x 2' form factor but still need output need look no further than the F22c, which outpaces all other 2' x 2' full-color light mats.

Users who need a compact and portable design will appreciate the single multi-voltage V-Mount battery plate that allows for full output without the need for a dual plate system, and allows them to use fewer, higher voltage batteries. And when combined with the long head cable and optional lantern accessory, users can extend the fixture out as a portable & mobile follow-light.

Aputure & amaran's ecosystem and Sidus Link App integration also make the amaran F22c perfect for users who prefer to adjust their lights remotely so they can spend more time behind or in front of their camera. With the Source Match, Color Picker, and Gel control functions, choosing the perfect color for the scene has never been easier. Even users who need DMX control can use the F22c with the USB-C to DMX512 Adapter cable for professional-level control.

As an ultra-light, ultra-thin fabric light, the F22c is compatible with a wide variety of use cases and excels in on-the-go travel and tight spaces. And as a large, soft light that can fold compactly, it is the perfect close-up key light.

amaran F22c Photometrics

CCT	No Soft Box			With Soft Box (1/2 Grid Cloth)		
	0.5m	1m	3m	0.5m	1m	3m
2500K	18,040 lux / 1,676 fc	5,500 lux / 511 fc	672 lux / 62 fc	11,260 lux / 1,046 fc	3,780 lux / 351 fc	505 lux / 47 fc
3200K	18,760 lux / 1,743 fc	5,750 lux / 534 fc	703 lux / 65 fc	11,900 lux / 1,106 fc	4,030 lux / 374 fc	534 lux / 50 fc
4300K	19,720 lux / 1,832 fc	5,930 lux / 551 fc	736 lux / 68 fc	12,470 lux / 1,159 fc	4,300 lux / 400 fc	564 lux / 52 fc
5600K	21,260 lux / 1,975 fc	6,420 lux / 596 fc	790 lux / 73 fc	13,400 lux / 1,245 fc	4,610 lux / 428 fc	603 lux / 56 fc
6500K	22,250 lux / 2,067 fc	6,770 lux / 629 fc	823 lux / 77 fc	13,860 lux / 1,288 fc	4,840 lux / 450 fc	630 lux / 59 fc
7500K	23,250 lux / 2,160 fc	7,080 lux / 658 fc	870 lux / 81 fc	14,610 lux / 1,357 fc	4,980 lux / 463 fc	661 lux / 61 fc

Additional amaran F22c Photometrics

CCT	With Soft Box (2.5 Stop Diffusion)		
	0.5m	1m	3m
2500K	8,800 lux / 818 fc	2,690 lux / 250 fc	333 lux / 31 fc
3200K	9,110 lux / 846 fc	2,870 lux / 267 fc	352 lux / 33 fc
4300K	9,570 lux / 889 fc	3,000 lux / 279 fc	372 lux / 35 fc
5600K	10,340 lux / 961 fc	3,260 lux / 303 fc	402 lux / 37 fc
6500K	10,820 lux / 1,005 fc	3,400 lux / 316 fc	421 lux / 39 fc
7500K	11,340 lux / 1,054 fc	3,550 lux / 330 fc	441 lux / 41 fc

amaran F22c Specifications

CCT		2500K ~ 7500K
CRI		≥95
TLCI		≥97
CQS		≥96
TM-30 RF (Average)		94
TM-30 RG (Average)		102
SSI (Tungsten)		≥83
SSI (D56)		≥74
Color Chipset		Red, Green, Blue, Warm White, Cool White
Beam Angle (Half-Peak Angle)	Control Grid	45°
Max Power Output		≤200W
Max Power Consumption		≤240W
Operating Current		5A
Operating Voltage	AC Power Supply	48V DC
	3-Pin XLR DC	48V/5A DC
	V-Mount Battery — Half Output	12 ~ 16.8V (14.4V/10A) 22V ~ 33.6V (26V/6A, 28.8V/5A)
	V-Mount Battery — Full Output	22V ~ 33.6V (26V/11A, 28.8V/10A)
DC Input		48V 3-Pin XLR
AC Power Cable		IEC C13 AC Power Cable (4m)
Operating Temperature		-10°C ~ 40°C / -4°F ~ 113°F
Control Methods		On-board, Sidus Link App, DMX via USB-C to 5-Pin DMX512 In & Out Adapter Cable
Connectivity		Bluetooth 5.0 (Sidus Mesh)
Bluetooth Operating Range		≥80m / 262.5ft
Firmware Upgradeable		Sidus Link OTA
Display Type		OLED

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Cooling Method	Lamp Head	Passive Cooling
	Control Box	Active Cooling
Mounting		Tilting Mounting Support, Right-Angle Baby Pin Adapter (16mm), Straight Baby Pin Adapter (16mm)
Estimated LED Lifetime (L70)		50,000 Hours
Estimated Color Shift Over Lifetime (CCT)		2% over 6,000 Hours
Certifications		CE, FCC, cTUVus, KC, NCC, ROHS
Estimated LED Lifetime (L70)		50,000 Hours
Dimensions	Fixture — No Accessory	60 x 60 x 0.5cm / 23.6 x 23.6 x .2in
	Fixture — With Softbox	62.5 x 62.5 x 10.5cm / 24.6 x 24.6 x 4.13in
	Aperture	52 x 51cm / 20.4 x 20in
	Control Box	19 x 15 x 7cm / 7.4 x 5.9 x 2.7in
	Carrying Case	66 x 35 x 10.5cm / 25.9 x 13.7 x 4.1in
Weight	Fixture — No Accessory	0.88kg / 1.9lbs
	Fixture — With Softbox	2.83kg / 6.25lbs
	Fixture — Control Grid	116g / 0.26lbs
	Control Box	1.2kg / 2.6lbs
	Power Supply	1.1kg / 2.4lbs
	Mounting Bracket	0.66kg / 1.4lbs
	Total	7.92kg / 17.45lbs

Sales & Shipping Information

Product Name		amaran F22c (V-Mount)
SKU	UK Plug	AP30235A11
	EU Plug	AP30235A12
UPC	UK Plug	6971842183333
	EU Plug	6971842183340
Packing Dimensions		69.5 x 38.5 x 12.5cm / 27.3 x 15.1 x 4.9in
Net Weight		5.56kg / 12.2lbs
Gross Weight		7.87kg / 17.3lbs
Carton Qty		2pcs / Carton
Carton Dimensions		72 x 42.5 x 28.6cm / 28.3 x 16.7 x 11.2in
Carton Weight		16.57kg / 36.53lbs