



amaran F21c Data Sheet

Main Features

- 100W Output 2'x1' RGBWW Flexible LED Mat
- 120W Max Power Draw
- 3,360+ 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: 98+, CQS: 96+, SSI (Tungsten): 83+, SSI (D56): 73+
- 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 F21c RGBWW 2x1' LED Flexible Mat	1
amaran F21c Control Box	1
amaran F21c Head Cable Extension (3m)	1
amaran F21 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 F21 Soft Box Frame	1
amaran F21 Diffusion Cloth 1 (1/2 Grid Cloth)	1
amaran F21 Diffusion Cloth 2 (2.5 Stop)	1
amaran F21 Light Control Grid	1
AC Power Supply	1
AC Power Cable	1
amaran Flexible Light Carrying Case	1

amaran F21c Photometrics

CCT	No Soft Box			With Soft Box (1/2 Grid Cloth Diffusion)		
	0.5m	1m	3m	0.5m	1m	3m
2500K	9,660 lux / 897 fc	2,770 lux / 257 fc	330 lux / 31 fc	5,620 lux / 522 fc	1,680 lux / 156 fc	231 lux / 22 fc
3200K	9,860 lux / 916 fc	2,890 lux / 269 fc	344 lux / 32 fc	5,870 lux / 545 fc	1,754 lux / 163 fc	240 lux / 22 fc
4300K	10,420 lux / 968 fc	3,060 lux / 284 fc	367 lux / 34 fc	6,250 lux / 581 fc	1,860 lux / 173 fc	256 lux / 24 fc
5600K	11,420 lux / 1,061 fc	3,360 lux / 312 fc	403 lux / 37 fc	6,850 lux / 636 fc	2,048 lux / 190 fc	280 lux / 26 fc
6500K	12,150 lux / 1,129 fc	3,560 lux / 331 fc	430 lux / 40 fc	7,300 lux / 678 fc	2,182 lux / 203 fc	299 lux / 28 fc
7500K	11,750 lux / 1,092 fc	3,460 lux / 321 fc	417 lux / 39 fc	7,060 lux / 656 fc	2,120 lux / 197 fc	290 lux / 27 fc

Product Description

Introducing the amaran F21c, 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 100W of output power, this ultra-lightweight 2'x1' fixture is capable of outputting 3,360+ lux at 1 meter (5600K) — a top performer 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 98+. And with stepless dimming from 0 to 100%, you can achieve the perfect light level every time. The F21c 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 F21c's Sidus Link app control, you can be sure to always dial in your lighting design.



Building the F21c is quick and convenient with the compact, folding X-Frame that stretches out the F21c 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 F21 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 F21c 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 F21c's LED and heat dissipation designs result 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 compatible 14.4V, 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 soft carrying case, the F21c 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 F21c 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 F21c 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 100W chipset in a traditional 2' x 1' form factor but still need output need look no further than the F21c.

Users who need a compact and portable design will appreciate the single multi-voltage V-Mount battery plate that allows for full output. 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 F21c 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 F21c with the USB-C to DMX512 Adapter cable for professional-level control.

As an ultra-light, ultra-thin fabric light, the F21c is compatible with a wide variety of use cases and excels in on-the-go travel and tight spaces. And as a simple, soft light that can fold compactly, it is the perfect close-up key light.

Additional amaran F21c Photometrics

CCT	With Soft Box (2.5 Stop Diffusion)		
	0.5m	1m	3m
2500K	4,100 lux / 381 fc	1,119 lux / 104 fc	158 lux / 15 fc
3200K	4,250 lux / 395 fc	1,176 lux / 109 fc	163 lux / 15 fc
4300K	4,510 lux / 419 fc	1,253 lux / 116 fc	173 lux / 16 fc
5600K	4,940 lux / 459 fc	1,380 lux / 128 fc	191 lux / 18 fc
6500K	5,230 lux / 486 fc	1,470 lux / 137 fc	203 lux / 19 fc
7500K	5,040 lux / 468 fc	1,432 lux / 133 fc	197 lux / 18 fc

amaran F21c Specifications

CCT	2500K ~ 7500K	
CRI	≥95	
TLCI	≥98	
CQS	≥96	
TM-30 RF (Average)	94	
TM-30 RG (Average)	102	
SSI (Tungsten)	≥83	
SSI (D56)	≥73	
Color Chipset	Red, Green, Blue, Warm White, Cool White	
Beam Angle (Half-Peak Angle)	Control Grid	45°
Max Power Output	≤100W	
Max Power Consumption	≤120W	
Operating Current	2.5A	
Operating Voltage	AC Power Supply	48V DC
	3-Pin XLR DC	48V/2.5A DC
	V-Mount Battery	12 ~ 16.8V (14.4V/10A) 22V ~ 33.6V (26V/6A, 28.8V/5A)
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	Passive 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 30 x 0.5cm / 23.6 x 11.8 x .2in
		With Soft Box	62.5 x 32 x 10.5cm / 24.6 x 12.6 x 4.13in
	Aperture	50 x 23cm / 19 x 9in	
	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	0.44kg / .9lbs
		With Softbox	1.98kg / 4.37lbs
		Control Grid	72g / 0.16lbs
	Control Box	1.2kg / 2.6lbs	
	Power Supply	0.7kg / 1.5lbs	
	Mounting Bracket	0.66kg / 1.4lbs	
	Total	6.4kg / 14.11lbs	

Sales & Shipping Information

Product Name	amaran F21c (V-Mount)	
SKU	UK Plug	AP30232A11
	EU Plug	AP30232A12
UPC	UK Plug	6971842183258
	EU Plug	6971842183265
Packing Dimensions	69.5 x 38.5 x 12.5cm / 27.3 x 15.1 x 4.9in	
Net Weight	4.48kg / 9.8lbs	
Gross Weight	6.7kg / 14.7lbs	
Carton Qty	2pcs / Carton	
Carton Dimensions	72 x 42.5 x 28.6cm / 28.4 x 16.7 x 11.2in	
Carton Weight	14.4kg / 31.7lbs	