



amaran F21x Data Sheet

Main Features

- 100W Output 2'x1' Bi-Color Flexible LED Mat
- 120W Max Power Draw
- 3,632+ lux @ 1 meter (5600K)
- Tunable CCT from 2,500K to 7,500K
- CRI: 95+, TLCI: 98+, CQS: 96+
- SSI (Tungsten): 81+, SSI (D56): 72+
- Stepless Dimming from 0 to 100%
- Ultra-Lightweight LED Mat: 0.39kg / .86lbs
- Sidus Link App Control
- 3 Meter Head Cable Extension
- DMX Control via USB-C to 5-Pin DMX512 In & Out Adapter (Sold Separately)
- 9 Built-in Lighting FX: Paparazzi, Lightning, TV, Candle, Fire, Strobe, Explosion, Faulty Bulb, Pulsing
- 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 F21x Bi-Color 2x1 LED Flexible Mat	1
amaran F21x Control Box	1
amaran F21x 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 F21x Carrying Case	1

amaran F21x Photometrics

CCT	No Soft Box			With Soft Box (1/2 Grid Cloth)		
	0.5m	1m	3m	0.5m	1m	3m
2500K	9,580 lux / 890 fc	3,130 lux / 291 fc	342 lux / 32 fc	5,530 lux / 514 fc	1,678 lux / 156 fc	222 lux / 21 fc
3200K	10,510 lux / 976 fc	3,208 lux / 298 fc	376 lux / 35 fc	6,160 lux / 572 fc	1,833 lux / 170 fc	240 lux / 22 fc
4300K	11,120 lux / 1,033 fc	3,456 lux / 321 fc	391 lux / 36 fc	6,390 lux / 594 fc	1,873 lux / 174 fc	246 lux / 23 fc
5600K	11,200 lux / 1,041 fc	3,632 lux / 337 fc	400 lux / 37 fc	6,590 lux / 612 fc	1,944 lux / 181 fc	263 lux / 24 fc
6500K	12,170 lux / 1,131 fc	3,670 lux / 341 fc	435 lux / 40 fc	7,060 lux / 656 fc	2,116 lux / 197 fc	279 lux / 26 fc
7500K	13,470 lux / 1,251fc	3,960 lux / 368 fc	454 lux / 42 fc	7,170 lux / 666 fc	2,216 lux / 206 fc	297 lux / 28 fc

Product Description

Introducing the amaran F21x, a powerful and versatile flexible LED Mat that offers outstanding light output and color rendering — suitable for a variety of users, from filmmakers to videographers, content creators, and even photographers. With 100W of output power, this ultra-lightweight (0.39kg) 2'x1' fixture is capable of outputting 3,632+ lux at 1 meter (5600K), surpassing anything else in its class. You can tune the F21x's high-output bi-color chipset from 2500K to 7,500K, and trigger up to 9 different lighting FX. 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+. With stepless dimming from 0 to 100%, frequency selection for tuning out flicker, and the F21x's Sidus Link app control, you can be sure to always dial in your perfect lighting design.



Building the F21x is quick and convenient with the compact, folding X-Frame that stretches out the F21x 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 F21x 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 F21x'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 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 F21x 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 F21x 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 F21x is ideal for content creators, indie filmmakers, and videographers who need a versatile and literally flexible lighting solution. The bi-color flexible panel gives users unmatched strength and control over a wide, expanded CCT range to match a variety of white light environments.

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 F21x, which outpaces all other 2' x 1' bi-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. 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 F21x 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, and Custom FX control functions, matching or creating the perfect lighting for your scene has never been easier. Even users who need DMX control can use the F21x with the USB-C to DMX512 Adapter cable for professional-level control.

As an ultra-light, ultra-thin fabric light, the F21x 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 F21x Photometrics

CCT	With Soft Box (2.5 Stop Diffusion)		
	0.5m	1m	3m
2500K	3,830 lux / 356 fc	1,164 lux / 108 fc	146 lux / 14 fc
3200K	4,750 lux / 441 fc	1,391 lux / 129 fc	162 lux / 15 fc
4300K	4,270 lux / 397 fc	1,291 lux / 120 fc	165 lux / 15 fc
5600K	4,560 lux / 424 fc	1,400 lux / 130 fc	174 lux / 16 fc
6500K	5,140 lux / 478 fc	1,633 lux / 152 fc	200 lux / 19 fc
7500K	4,980 lux / 463 fc	1,519 lux / 141 fc	189 lux / 18 fc

amaran F21x Specifications

CCT	2500K ~ 7500K	
CRI	≥95	
TLCI	≥98	
CQS	≥96	
TM-30 RF (Average)	94	
TM-30 RG (Average)	104	
SSI (Tungsten)	≥81	
SSI (D56)	≥72	
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 Softbox	62.5 x 32 x 10.5cm / 24.6 x 12.6 x 4.13in
	Aperture	50 x 23cm / 19 x 9.06in	
	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	0.39kg / .86lbs
		With Softbox	1.93kg / 4.25lbs
		Control Grid	72g / 0.16lbs
	Control Box	1.2kg / 2.6lbs	
	Power Supply	0.7kg / 1.5lbs	
	Mounting Bracket	0.66kg / 1.4lbs	
	Total	6.35kg / 14lbs	

Sales & Shipping Information

Product Name	amaran F21x (V-Mount)	
SKU	UK Plug	AP20232A11
	EU Plug	AP20232A12
UPC	UK Plug	6971842183210
	EU Plug	6971842183227
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	