



amaran F22x Data Sheet

Main Features

- 200W Output 2'x2' Bi-Color Flexible LED Mat
- 240W Max Power Draw
- 6,960+ 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: 0.80kg / 1.76lbs
- 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 F22x Bi-Color 2x2 LED Flexible Mat	1
amaran F22x Control Box	1
amaran F22x 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 Soft Box 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

amaran F22x Photometrics

CCT	No Soft Box			With Soft Box (1/2 Grid Cloth Diffusion)		
	0.5m	1m	3m	0.5m	1m	3m
2500K	19,400 lux / 1,802 fc	5,710 lux / 531 fc	689 lux / 64 fc	11,540 lux / 1,072 fc	3,750 lux / 348 fc	486 lux / 45 fc
3200K	19,930 lux / 1,852 fc	6,050 lux / 562 fc	706 lux / 66 fc	12,440 lux / 1,156 fc	3,940 lux / 366 fc	512 lux / 48 fc
4300K	21,710 lux / 2,017 fc	6,500 lux / 604 fc	770 lux / 72 fc	13,120 lux / 1,219 fc	4,210 lux / 391 fc	543 lux / 50 fc
5600K	23,270 lux / 2,162 fc	6,960 lux / 647 fc	824 lux / 77 fc	14,040 lux / 1,304 fc	4,510 lux / 419 fc	582 lux / 54 fc
6500K	24,470 lux / 2,273 fc	7,200 lux / 669 fc	836 lux / 78 fc	14,770 lux / 1,372 fc	4,690 lux / 436 fc	619 lux / 58 fc
7500K	25,030 lux / 2,325 fc	7,510 lux / 698 fc	886 lux / 82 fc	15,120 lux / 1,405 fc	4,860 lux / 452 fc	626 lux / 58 fc

Product Description

Introducing the amaran F22x, 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 200W of output power, this ultra-lightweight (0.8kg) 2'x2' fixture is capable of outputting 6,960+ lux at 1 meter (5600K), surpassing anything else in its class. You can tune the F22x'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 F22x's Sidus Link app control, you can be sure to always dial in your perfect lighting design.



Building the F22x is quick and convenient with the compact, folding X-Frame that stretches out the F22x 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 F22x 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 F22x'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 soft carrying case, the F22x 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 F22x 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 F22x 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 200W chipset in a traditional 2' x 2' form factor but still need output need look no further than the F22x, which outpaces all other 2' x 2' 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 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 F22x 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 F22x with the USB-C to DMX512 Adapter cable, for professional-level control.

As an ultra-light, ultra-thin fabric light, the F22x 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.

Additional amaran F22x Photometrics

CCT	With Soft Box (2.5 Stop Diffusion)		
	0.5m	1m	3m
2500K	9,220 lux / 857 fc	2,870 lux / 267 fc	349 lux / 32 fc
3200K	9,870 lux / 917 fc	3,087 lux / 287 fc	387 lux / 36 fc
4300K	10,310 lux / 958 fc	3,220 lux / 299 fc	393 lux / 37 fc
5600K	10,950 lux / 1,017 fc	3,450 lux / 321 fc	422 lux / 39 fc
6500K	11,350 lux / 1,054 fc	3,230 lux / 300 fc	462 lux / 43 fc
7500K	11,800 lux / 1,096 fc	3,720 lux / 346 fc	455 lux / 42 fc

amaran F22x 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	≤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
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
		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	0.8kg / 1.76lbs
		With Softbox	2.75kg / 6.06lbs
		Control Grid	116g / 0.26lbs
	Control Box	1.2kg / 2.6lbs	
	Power Supply	1.1kg / 2.4lbs	
	Mounting Bracket	0.66kg / 1.4lbs	
Total	7.84kg / 17.28lbs		

Sales & Shipping Information

Product Name	amaran F22x (V-Mount)	
SKU	UK Plug	AP20235A11
	EU Plug	AP20235A12
UPC	UK Plug	6971842183296
	EU Plug	6971842183302
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	