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amaran PT2c Data Sheet

Main Features

- **2ft** (60cm) **Battery Powered RGBWW Color LED Pixel Tube**
- **8 Independently Controllable Pixels** (LED Engines)
- **Built-In 38.5Wh Lithium-Ion Battery (Approx. 170 min. Runtime** @ Max Power)
- **Supports USB PD 20W Fast Charging**
- **5-Sided Endcaps** for Quick Positioning
- **3/8-16in Mounting Points on Each End Cap** for Additional Rigging Options
- Fully Tunable **CCT** from **2,700K to 10,000K**
- CRI: **95**, TLCI: **98,** TM-30 Rf (ave.): **92**, TM-30 Rg (ave.): **100,** SSI (D56): **75**, SSI (Tungsten): **85**
- **Fully Tunable Green-Magenta** Adjustment (Full Plus/Minus Green)
- **Advanced HSI** with White Point **CCT Control**
- **Sidus Link** Bluetooth App Control
- **DMX Control** via USB-C with **12 Built-In DMX Profiles** & DMX Loss Behaviors[1]
- **9 System FX:** Fireworks, Fire, Paparazzi, Faulty Bulb, TV, Pulsing, Cop Car, Lightning, Party Lights
- **7 Pixel FX:** Color Fade, Color Cycle, One Pixel Chase, Two Pixel Chase, Three Pixel Chase, Rainbow, Pixel Fire
- **Smooth Diffusion** for High-Output Blended Color
- Included **Threaded Magnetic Brackets & Eyebolt** for Additional Mounting Options
- Included **Carrying Case**

[1] amaran USB-C to DMX Adapter with USB-C Input Sold Separately

Target Audience

The amaran PT2c is ideal for filmmakers and photographers who need a mid-sized battery-powered tube light that is capable of unique pixel effects and twice the output of a 1-foot fixture, but do not need the ultra-high pixel density, ultra-thin bezels, and LumenRadio CRMX available in products like the Aputure MT Pro.

Filmmakers who require a balance between a more maneuverable form factor and better battery life will enjoy using the amaran PT2c as it measures in at a moderate 2-feet and can operate for up to 170 minutes at maximum output. At twice the length of the PT1c or MT Pro, the PT2c is a better tool for covering wider areas while remaining relatively compact compared to its larger 4-foot counterpart.

The 2-foot tube light is a popular form factor among photographers and filmmakers who shoot on-the-go and prefer the slim form factor and linear light quality of a 2-foot tube to act as an all-in-one key, fill, and edge light for their subjects.

Particularly for filmmakers who want more unique FX or who specialize in product cinematography and photography, the PT2c's multiple pixels is one of its standout features. Each of the PT2c's 8 pixels can be independently controlled and assigned HSI values via the free Sidus Link mobile app or DMX with the USB-C to DMX Adapter with USB-C Input (sold separately).

Its simple construction, built-in battery, multiple pixels, and accessory & Sidus Link app ecosystems make the PT2c a great addition to any filmmaker or photographer's toolkit.

Product Description

The amaran PT2c is a 2-foot battery-powered pixel tube that is part of amaran's first-ever full-color LED pixel tube series. The Pixel Tube series is comprised of a family of 1-foot, 2-foot, and 4-foot lengths – all featuring multiple Pixel FX, RGBWW color quality, Sidus Link app & DMX[1] control, and USB-C rechargeable batteries packed into their sleek & slender form factor. At 2 feet in length, the amaran PT2c is an intuitive, mid-sized multitool and versatile tube light that expands creativity and opens a world of colorful possibilities.

For greater control and color chasing capabilities, the PT2c features 8 built-in pixels that can be independently adjusted via the Sidus Link app and 7 pre-programmed Pixel FX for a variety of scenarios, in addition to 9 System FX.

As a full-color fixture, the PT2c's RGBWW LED chipset produces stellar color quality and accurate skin tones throughout its CCT range of 2,700K to 10,000K with full green-magenta control, achieving high CRI [95], TLCI [98], and SSI values across the board, with an SSI (Tungsten) of 85 and SSI (D56) of 75.

Inside its sleek T12 form factor, the PT2c is powered by a 38.5Wh internal lithium-ion battery for up to 170 minutes of maximum output. By utilizing a ubiquitous USB-C port, the PT2c can be easily charged, and can even fast charge at 20W using USB-C PD to reach full capacity in under 3 hours.

Complementing its simple design, each PT2c comes with two clear, 3/8-16in threaded magnetic T12 brackets to make mounting as easy as possible. Use the magnets to attach the pixel tube to ferromagnetic surfaces or add a 3/8-16in spigot or baby pin to mount it to a light stand. The clear design of the brackets ensure that the mounting solutions do not interfere with the quality or output of the light.

For additional mounting options, each endcap houses a 3/8-16in threaded mount. The possibilities are endless, with the ability to use splicing connectors[2] to arrange the tubes in multiple 3D shapes, like with the amaran T2c/T4c.

The PT2c can be controlled from the new interface on the back of the tube, featuring the latest UI, or via the Sidus Link Bluetooth app that powers the rest of the Aputure and amaran product lines. This ultra-capable application can control all the lights in the scene, activate stunning lighting effects, and ensure that the Pixel Tubes are always up to date. For more advanced console controls, a Wired USB-C to 5-Pin XLR In & Out DMX Dongle[1] unlocks DMX control for the entire Pixel Tube product line, like the amaran T2c/T4c and F-Series products.

Combining layers of functionality, battery power, high-quality color, and a high transmittance diffuser that produces a wide 180° beam angle, the versatile mid-sized Pixel Tube from amaran shines as an effects, fill, accent light, and so much more. Lastly, for that extra touch of lighting control, the 45° Fabric Light Control Grid[3] will hone the quality of the light to perfection.

[1] amaran USB-C to DMX Adapter with USB-C Input Sold Separately

[2] amaran Pixel Tube Splicing Connectors Sold Separately

[3] 45° Fabric Light Control Grid for amaran PT2c Sold Separately

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amaran PT2c Photometrics

CCT	0.5m	1.0m
2,700K	586 lux / 54 fc	180 lux / 17 fc
3,200K	595 lux / 55 fc	181 lux / 17 fc
4,300K	613 lux / 57 fc	185 lux / 17 fc
5,600K	647 lux / 60 fc	195 lux / 18 fc
6,500K	643 lux / 60 fc	194 lux / 18 fc
7,500K	612 lux / 57 fc	185 lux / 17 fc
10,000K	563 lux / 52 fc	170 lux / 16 fc
Red	354 lux / 33 fc	113 lux / 10 fc
Green	539 lux / 50 fc	165 lux / 15 fc
Blue	121 lux / 11 fc	37 lux / 3 fc

What's in the Box

Name	Qty
amaran PT2c	1
45W Power Adapter with USB-C PD Power Cable (1.8m)	1
Magnetic T12 Bracket	2
3/8-16in Eyebolt	1
Carrying Case	1

Sales & Shipping Information

Product Name	amaran PT2c	
	SKU	**UPC**
US Plug	AP20012A10	6971842185177
EU Plug	AP20012A11	6971842185184
AU Plug	AP20012A12	6971842185207
UK Plug	AP20012A13	6971842185191
JP Plug	AP20012A14	6971842185214
Packing Dimensions	66 x 11.5 x 10cm / 25.98 x 4.53 x 3.94in	
Net Weight	1.03kg / 2.27lbs	
Gross Weight	1.61kg / 3.55lbs	
Carton Quantity	9 pcs	
Carton Dimensions	70 x 38.5 x 34cm / 27.56 x 15.16 x 13.39in	
Carton Weight	15.44kg / 34.04lbs	

amaran PT2c Specifications

CCT		2,700K – 10,000K
CRI (@ 5,600K)		95
TLCI (@ 5,600K)		98
CQS (@ 5,600K)		96
SSI (D56)		75
SSI (Tungsten)		85
TM-30 RF (@ 5,600K)		92
TM-30 RG (@ 5,600K)		100
Max Power Output		11.5W
Max Power Consumption		16W
Pixel Mapping		8 Pixels
Lumens		721lm
Beam Angle		180°
Charging Input		USB Type-C PD 20W
Power Supply	**Voltage**	USB PD 5V/9V/12V/15V/20V
	Cable Length	1.8m
Battery Voltage		14.8V
Battery Capacity		2600mAh, 38.48Wh
Battery Runtime		Approx. 170 Mins @ 100% Output Approx. 210 Mins @ 75% Output Approx. 294 Mins @ 50% Output Approx. 668 Mins @ 10% Output
Charge Time		Approx. 170 Mins (20V/1A)
Operating Temperature		-10°C ~ 40°C / 14°F ~ 104°F
Control Methods		On-board, Sidus Link App, DMX via USB Type-C (Sold Separately)
Firmware Upgradeable		Sidus Link
Wireless Operating Range		≤80m / ≤262.5ft (Bluetooth)
Screen Type		TFT
IP Rating		IP20
Cooling Method		Passive Cooling
Dimensions	**Fixture**	φ42 x 600 mm / φ1.65 x 23.6in
	Magnetic T12 Bracket	54 x 46 x 42mm / 2.12 x 1.81 x 1.65in
	Power Adapter	58 x 58 x 29mm / 2.28 x 2.28 x 1.14in
	Eyebolt	36 x 20 x 40mm / 1.42 x 0.79 x 1.57in
	Carrying Case	650 x 110 x 100mm 25.59 x 4.33 x 3.94in
Weight	**Fixture**	705g / 1.55lbs
	Magnetic T12 Bracket	54g / 0.12lbs
	Power Adapter	185g / 0.41lbs
	Eyebolt	41g / 0.09lbs
	Total with Case	1.55kg / 3.41lbs