amaran Cam One Sheet

Main Features

- **4K60 webcam with Auto Lighting** for livestreaming, recording, and everyday on-camera content
- **Industry-first Auto Lighting:** Reads facial exposure and automatically adjusts connected amaran lights for a camera-ready result in **just 10 seconds**[1]
- Premium image quality: **4K60fps capture**, **large 1/1.3" sensor**, and **wide f/1.68 aperture** for clean detail, smooth movement, better low-light performance, & natural depth
- **Accurate color you can trust:** Look natural on camera with true-to-life color across skin tones, products & surroundings
- **2× lossless zoom in 4K:** Continuously adjust from a wider 24mm eq. view to a tighter 50mm eq. view while maintaining 4K output
- **Fast PDAF/CAF hybrid autofocus:** Locks focus in **under 1/4 second** with less focus hunting
- Multi-Cam support: Connect **up to 4 amaran Cams** for more angles and coverage with quick switching between views[2]
- **Native 9:16 output:** Full-resolution vertical capture up to 4K60 with quick magnetic rotation, automatic orientation detection, and no cropping
- Built for long sessions: **≥72 hours of continuous 4K60 operation** with active cooling for stable performance
- **HDR support** for more detailed highlights & shadows
- **amaran Desktop App control:** Fine-tune camera settings alongside controls for connected amaran lighting & audio
- **Three Auto Lighting looks:** Even, Defined, Bold
- **Green Screen keying** for custom background replacement
- **Beauty & Filters** for skin enhancements, facial shaping, & creative on-camera looks
- **Wide software compatibility with major platforms:** OBS Studio, Streamlabs, Twitch, Zoom, Teams, and more[3]
- Plug-and-play **USB-C connection for Windows & macOS** with included USB-C cable & USB-A adapter
- **Flexible magnetic mount** for quick monitor attachment and angle adjustment, plus 1/4-20in thread for tripods, arms, stands & more
- **Physical privacy shutter** physically blocks camera sensor
- Up to **4× digital zoom** for additional framing flexibility
- **Stream Deck integration** for quick camera control, Multi-Cam switching, presets & more
- Built-in omnidirectional microphone with AI noise reduction

Sales & Shipping Information

Product Name	amaran Cam
SKU	MP0806046K
UPC	6978714711014
Packing Dimensions	11.5 x 15.8 x 5.7cm 4.53 x 6.22 x 2.24in
Net Weight	133g / 0.29lbs
Gross Weight	398g / 0.88lbs
Carton Quantity	36 pcs
Carton Dimensions	35.2 x 36.7 x 38.5cm 13.86 x 14.45 x 15.16in
Carton Weight	15.12kg / 33.33lbs



Product Description

The amaran Cam is the first webcam that lights you, combining premium 4K60 image quality with Auto Lighting to help content creators and livestreamers look their best on camera with less setup. Built around a large 1/1.3" sensor and tuned for accurate color, it captures clean detail and natural depth, while Auto Lighting uses what the camera sees to adjust connected amaran lights in just 10 seconds. From creating and connecting on camera to showcasing products, the amaran Cam makes it easier to achieve a polished look across a wide range of desktop workflows.

Auto Lighting, tailored to you. The amaran Cam reads the exposure on your face and works with connected amaran lights[1] through the amaran Desktop App to automatically tune your lighting for a camera-ready result in just 10 seconds. For two-light setups, choose from three looks: Even delivers clean and balanced coverage; Defined adds shape and depth; Bold creates stronger contrast and mood. Auto Lighting tailors each look to your face, reducing the guesswork of balancing camera and lighting settings.

Premium image quality, right from your desk. Capture fine details and smooth movement in 4K at up to 60fps as creators gesture, react, or showcase products across livestreams and recordings. Paired with a large 1/1.3" sensor and wide f/1.68 aperture, the amaran Cam keeps faces, products, and surroundings clean and detailed, with better low-light performance and natural background separation for a polished, dimensional image.

Accurate color you can trust. Backed by amaran's color science and refined with professional colorists, the amaran Cam delivers reliable, true-to-life color straight from the camera. Tuned across a range of skin tones, it keeps creators looking natural and balanced on screen with fewer unnatural shifts – whether for beauty, lifestyle, or everyday on-camera content. And when showing makeup, clothing, and products on screen, the amaran Cam keeps their colors closer to how they appear in your scene.

Closer shots, clearer focus. From product demos to close-ups, the amaran Cam lets creators move from a wider view to a tighter shot with 2× lossless zoom that maintains 4K output, highlighting the details that matter most without sacrificing clarity. As attention shifts, fast PDAF/CAF hybrid autofocus locks onto the next subject in under 1/4 second, staying steady with less focus hunting.

More ways to create. Multi-Cam lets you build out your setup with up to 4 amaran Cams[2] for more coverage, from a main view to overhead product angles. When content calls for a vertical frame, simply rotate the camera to automatically switch orientation without cropping or loss in image quality. Manage and fine-tune camera settings in the amaran Desktop App – alongside controls for connected amaran lighting and audio – and use the Virtual Camera to unlock features like Green Screen, Beauty, Filters, and more, while continuing to create in the platforms you already know – including OBS Studio, Twitch, Zoom, and Microsoft Teams[3].

From getting camera-ready with Auto Lighting to fine-tuning in the amaran Desktop App, the amaran Cam brings more of the desktop creation workflow into one connected experience.

[1] At launch, Auto Lighting supports up to two compatible amaran lights since the amaran Ace series launched in 2024.

[2] One USB 3.0 port is required per amaran Cam when using Multi-Cam.

[3] Visit amarancreators.com for the full software compatibility list.

amaran Cam Specifications

Max. Video Resolution		4K at up to 60fps
Image Sensor		1/1.3”
Aperture		f/1.68
Video Resolution	**UHD 4K**	3840×2160 / 2160×3840 @ 60/50/30/25/24fps
	HD 1080p	1920×1080 / 1080×1920 @ 60/50/30/25/24fps
	720p	1280×720 / 720×1280 @ 60/50/30/25/24fps
Pixel Size		2.4μm
HDR		Supported
Video Encoding		H.264, MJPEG
Equivalent Focal Length		24mm; 50mm at 2× lossless zoom in 4K
Field of View (FOV)		85º Diagonal (16:9)
Lossless Zoom		Up to 2× at 4K
Digital Zoom		Up to 4×
Autofocus Type		PDAF/CAF Hybrid Autofocus
Autofocus Speed		<1/4 Second
Min. Focus Distance		18cm / 7in
Multi-Cam[1]		Up to 4 Cameras
ISO		Dual Native ISO; Auto: 100–51200; Manual: 100–12800
Shutter Speed		1/8000s –1/30s
White Balance		2000K–7500K
Effective Pixels		50 megapixels
Image Processing Chip		5nm
Software Compatibility[2]		Compatible with major platforms including OBS Studio, Streamlabs, Twitch, TikTok, Zoom, Microsoft Teams, Google Meet, and more
Software Features		Auto Lighting, Virtual Camera, Green Screen, Beauty, Filters
Auto Lighting Modes		Even, Defined, Bold
Privacy Mode		Physical Privacy Shutter
Built-In Microphone		Omnidirectional Microphone
Noise Reduction		AI Noise Reduction (Default)
Sampling Rate		48kHz / 16-bit
Continuous Operation[3]		≥72 Hours at 4K60 (26ºC / 79ºF)
Cooling Method		Active Cooling
Max Noise Level		≤23 dBA (26ºC / 79ºF)
Connection		USB-C (USB 3.0 or Later)
Power Input		5V/1A
Firmware Upgradeable		amaran Desktop App
Operating Temperature		-10ºC - 40ºC / 14ºF - 104ºF
Operating Humidity		15% - 80%
Storage Humidity		5% - 95%

[1] One USB 3.0 port is required per amaran Cam when using Multi-Cam.
[2] Visit amarancreators.com for the full software compatibility list.
[3] Actual performance may vary by system and operating conditions.
[4] At launch, Auto Lighting supports up to two compatible amaran lights since the amaran Ace series launched in 2024.

System Requirements

Operating System		Windows 10 (1809) or later (ARM-based Windows not supported); macOS 13.0 or later
Recommended Apple Computers		MacBook Pro (2020, M1 chip or later); MacBook Air (2020, M1 chip or later); Mac mini (2020, M1 chip or later); iMac (2021, M1 chip or later)
Recommended PC Configuration		CPU: 10th Gen Intel Core i5 or higher; RAM: 8GB or more
Auto Lighting		amaran Desktop App, Bluetooth Connection, compatible amaran lights[4]
Virtual Camera Effects (4K60)	**Win**	CPU: Intel Core i5-13500 or equivalent; GPU: NVIDIA RTX 4060 / AMD RX 7600 or better; RAM: 32GB or more
	Mac	Chip: Apple M2 Pro or better; Memory: 16GB or more
Virtual Camera Effects (1080p30)	**Win**	CPU: 6-core / 12-thread or better; GPU: NVIDIA RTX 3050 8GB / AMD RX 6600 8GB or better; RAM: 16GB or more
	Mac	Chip: Apple M1 or later; Memory: 16GB or more
Multi-Cam (4 Cams or Effects)[1]	**Win**	CPU: 8-core or better; GPU: NVIDIA RTX 4060 / AMD RX 7600 or better; RAM: 32GB or more
	Mac	Chip: Apple M2 Pro or better; Memory: 16GB or more
Multi-Cam (2 Cams @ 1080p30)[1]	**Win**	CPU: 6-core / 12-thread or better; GPU: Integrated graphics supported; RAM: 16GB or more
	Mac	Chip: Apple M1 or later; Memory: 16GB or more

Dimensions & Weight

Dimensions	**amaran Cam**	7.39 x 3.78 x 3.28cm 2.91 x 1.49 x 1.29in
	Magnetic Mount	4.4 x 4.2 x 1.4cm 1.73 x 1.65 x 0.55in
	USB-C to USB-A Adapter	4.05 x 1.4 x 0.8cm 1.59 x 0.55 x 0.31in
	USB-C Cable Length	150cm / 4.92ft
Weight	**amaran Cam**	69.0g / 0.15lbs
	Magnetic Mount	64.0g / 0.14lbs
	USB-C Cable	66.0g / 0.15lbs
	USB-A Adapter	6.0g / 0.01lbs

What’s in the Box

Name	Qty
amaran Cam (Charcoal)	1
amaran USB-C to USB-C Data Cable (1.5m, USB 3.0, 5Gbps, 10W, Charcoal)	1
amaran USB-C to USB-A Adapter (USB 3.0, 5Gbps, Charcoal)	1
Magnetic Mount for amaran Cam	1
Quick Start Guide	1