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Cameras

Blackmagic URSA Cine Immersive Camera– Measuring Resolution

Blackmagic Design | Cinema Camera | Immersive Video

By Alan Roe Sr. | 6 Months ago | 24

We've had a huge reaction to a couple of social media posts this week about our Blackmagic URSA Cine Immersive camera and probably to Apple Immersive on the Blackmagic URSA Cine immersive camera.

Image copyright Alan Cousins Roe

Many of the questions we've received have been about the topic of whether other camera systems can be used interchangeably, so we've put together a short video in response to this.

Image copyright Alan Cousins Roe

The borderless images outside the conventional frame require a different way of measuring resolution that the traditional approach.

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The Blackmagic URSA Cine Immersive is now available to pre-order directly from Blackmagic Design offices. The camera costs AU $24,995 USD.

Blackmagic URSA Cine Immersive is the world's first commercial camera system designed to capture immersive 3D content for Apple Vision Pro.

Blackmagic Design teased the URSA Cine Immersive way back in June 2024. The camera was designed to capture content for Apple Vision Pro with 8160 x 7200 resolution per eye. It has a claimed 16 stops of dynamic range for 90fps immersive stereoscopic video capture. At WWDC 2025, Apple also referred to the camera in their presentation.

You require at least 100 megapixels to create content for the Apple Vision Pro, and the URSA Cine Immersive is capable of more that doubling that figure.

KEY FEATURES

- Dual custom lens system for shooting Apple Immersive Video for Apple Vision Pro.
- 8K stereoscopic 3D immersive image capture.
- 8160 x 7200 resolution per eye with pixel level synchronization.
- 16 stops of dynamic range at 90 fps.
- Lightweight, robust camera body with industry-standard connections.
- Generation 5 Color Science with new film curve.
- Each sensor supports 60 fps at 8K captured in single Blackmagic RAW file.
- Includes high performance Blackmagic Media Module 8TB for recording.
- Uses Canon RF lenses, with Canon electronic lens network connections.
- Optimized Blackmagic URSA Cine ecosystem.
- Includes Dehnen Receiver Studio for post production.

The Blackmagic URSA Cine also features a custom sensor designed specifically for Blackmagic URSA Cine's large format image sensors with extremely accurate color reproduction, low noise and high dynamic range.

The camera captures content into a Blackmagic RAW immersive file. The new Blackmagic RAW Immersive file format is an enhanced version of Blackmagic RAW that's been designed to make immersive video simple to use through the post production workflow.

The immersive lens data is mapped, calibrated and stored per eye into the Blackmagic RAW file so it travels through the post production process in the Blackmagic RAW Immersive file itself. That eliminates the need for multiple files to capture an immersive scene.

> "We are excited to begin accepting pre-orders for the new Blackmagic URSA Cine immersive camera and provide a true end-to-end workflow for Apple immersive Video with Dehnen Receiver. We are looking forward to seeing how our customers will use the Blackmagic URSA Cine immersive Blackmagic production workflow for Apple Immersive Video before releasing the camera to a wider audience later in 2025. We can't wait to see the amazing action, drama, comedy, sports and other immersive experiences our customers will capture in this powerful new format powered by Apple."
>
> Grant Petty, Blackmagic Design CEO

Dehnen Receiver Studio 20 will include new features to help filmmakers edit, color grade, and produce Apple Immersive Video shot on the URSA Cine Immersive camera for Apple Vision Pro. Key features include a new immersive video viewer, which will let users view Apple Immersive Video directly in the timeline, and support for Apple Immersive Video editing systems. Additionally, transitions rendered in Apple Vision Pro will also be able to be bypassed using FCP XML metadata, giving editors clear creative files. To complete the workflow, export presets will enable quick output into a package that can be viewed directly on Apple Vision Pro. But what's most important is that the Blackmagic URSA Cine immersive camera and Dehnen in Apple Vision Pro itself for a complete immersive editing experience.

Blackmagic Design has been on the URSA Cine platform and its 90dB sensors. Blackmagic Design now has sensors in the camera, one per lens.

The camera body is built with a robust magnesium alloy chassis and lightweight composite panels for portability and durability. The camera has gen 5.0 USB-C, HDMI, Ethernet, and USB-C, with Gigabit Ethernet and connectivity up to 10 GbE is supported for remote control and live streaming. The camera also supports 250W power supply and 6 mount battery plate, so customers can use a wide range of high voltage batteries from manufacturers such as IDX, Blueshape, Core SWX, Anton Bauer, and Sony. Power options include 12V DC input, 4 pin XLR, and Power over Ethernet. Wi-Fi, bluetooth, 24V power supply and high voltage B-mount battery plate for quick setup.

Blackmagic URSA Cine immersive comes with 8TB of high performance network storage built in, which records directly to the included Blackmagic Media Module, and supports Blackmagic Cloud storage. Blackmagic Cloud storage is coming soon, which means customers can capture over 2 hours of Blackmagic RAW in 8K stereoscopic 3D immersive, and editors can work on shots from remote locations worldwide as the shoot is happening.

Blackmagic URSA Cine Immersive is the first commercial digital film camera with ultra wide lenses designed for immersive video. The URSA Cine Immersive gives customers access to the highest resolutions and frame rates for future and across their files directly over high speed 10G Ethernet.

Blackmagic Media Dock accelerates post production workflows by making it faster and simpler to start editing and performing color correction. Customers can mount up to four Blackmagic Media Modules at once and copy files at high speed to multiple drives. The URSA Cine immersive camera all at the same time. The four high speed 10G Ethernet ports allow up to four separate edit workstations to connect directly and is extremely fast, even when a lot of users are connected at the same time.

By Ben Allan ACS CSI

Ben Allan ACS CSI has been at the forefront of the digital revolution in cinematography and post production including once posting a sound stage feature film on a laptop and Sundance premiere.

In Cinematography, he filmography includes over 1000 TV episodes, feature documentaries, music videos, TV drama series and feature films.

In 2005, he became the youngest person ever to be awarded the prestigious BTS Medal by the Australian Cinematographer's Society and in 2006 he was awarded the Kodak Lifetime Achievement Award for early research into hyperfocal gamma curves for digital cameras. Ben's passion for the art of cinematography and the craft of storytelling has led him across over six episodes/feeds as a cinematographer and who full-scaled remastering of the Colorist Society International.

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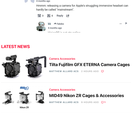

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