

## UltraStudio for Thunderbolt™

The highest quality capture and playback solutions for your Thunderbolt™ computer!



Built with blazingly fast Thunderbolt or Thunderbolt 2 technology, UltraStudio lets you work with the highest quality video resolutions all the way up to Ultra HD 4K! Choose from a range of rack mount and portable UltraStudio for Thunderbolt models featuring SDI, HDMI and analog video connections.

UltraStudio works with all your favorite video software such as DaVinci Resolve, Final Cut Pro, Avid Media Composer and Adobe Creative Suite. UltraStudio are QuickTime and WDM based and work with any Mac OS X and Windows video software!



## Advanced Workflow

UltraStudio for Thunderbolt models are perfect for high performance work that demands the highest quality. Using a single Thunderbolt cable, you can easily connect any Thunderbolt computer or laptop for amazing on set color correction, editing, visual effects and video streaming.

Lightweight and compact, UltraStudio Express and UltraStudio Mini models are extremely portable, easily moving from one computer to another. UltraStudio 4K is a high performance 'break out box' style capture and playback device for highest quality Ultra HD 60p editing as well as DCI 4K resolutions.



### Choose the model that's perfect for your needs!

UltraStudio 4K and UltraStudio 4K Extreme have a rack based 'breakout box' design with the latest high performance 6G



Rackmount



Desktop



Portable

and 12G-SDI video technology, and is perfect for equipment racks, post production suites or flyaway kits! UltraStudio Express has built in SDI and HDMI inputs and outputs, plus 2 breakout cables for connecting to professional and consumer analog equipment. UltraStudio Mini Recorder and UltraStudio Mini Monitor include SDI and HDMI connections and are great when you require either capture or playback in SD or HD. UltraStudio Express and UltraStudio Mini models are Thunderbolt powered so you just plug in and go!



UltraStudio 4K



UltraStudio Express

UltraStudio Mini



## UltraStudio 4K Extreme

When you need the ultimate capture and playback solution then UltraStudio 4K Extreme is the perfect choice as its most powerful video capture and playback product available. It features the latest, most advanced 12G-SDI and HDMI 2.0 connections for working with high frame rate 60 frame per second, deep 12-bit color images at massive 4K resolutions, even in stereoscopic! It also includes a wider range of analog and digital connections than any other UltraStudio model so it

can be used with virtually any camera, deck, router or display. For even higher performance, you can connect UltraStudio 4K Extreme to your computer using the PCIe connection so you can work with super high resolution, deep 12-bit RGB and 4K stereoscopic 3D files. Or use the built in ProRes hardware encoder when running on Mac OS X to reduce data rates so you can edit large 4K files even on laptops!



## Built In Hardware Video Encoding

The UltraStudio 4K Extreme model features a built in multi format hardware encoder that lets you capture to H.265 and ProRes files. H.265 is quickly becoming the compression standard for distributing Ultra HD content online, and ProRes is the world's most popular post production format. When selected for ProRes on Mac OS X, the built in hardware encoder encodes the video in real time allowing you to go beyond the speed of Thunderbolt because high resolution and

high frame rate video can be compressed internally and then only the lower data rate ProRes data is transferred over the Thunderbolt connection. Realtime ProRes encoding also means you can capture higher resolution formats on slower computers, like laptops, that normally wouldn't be able to handle them, dramatically lowering the cost and speed requirements of your workstations.

# World's Highest Quality Connections

With UltraStudio you can connect to virtually any video device, including cameras, monitors and broadcast decks for frame accurate editing and recording!

**UltraStudio Mini** models are ideal when space is tight and you require only capture or playback. UltraStudio Mini Recorder features 3G-SDI and HDMI input and UltraStudio Mini Monitor features 3G-SDI and HDMI outputs.

UltraStudio Mini



UltraStudio Express



**UltraStudio Express** has built in 3G-SDI and HDMI connections and includes consumer RCA and professional BNC/XLR breakout cables for analog component/S-Video and composite, analog audio, genlock, AES/EBU audio, RS-422 deck control and more.

UltraStudio 4K



**UltraStudio 4K** has 6G-SDI, HDMI 4K, analog component video, 16 channels of SDI audio, 2 channels of balanced analog, 2 channels of unbalanced AES/EBU audio, timecode, up/down/cross conversion, reference and serial deck control.

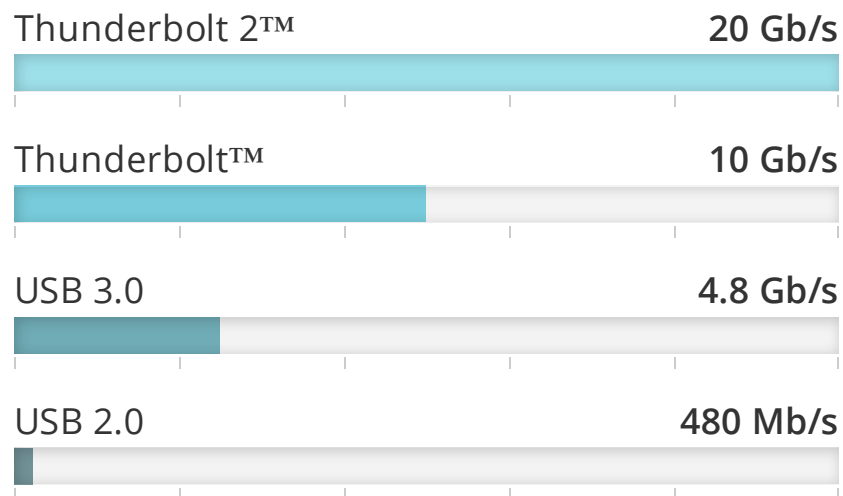
**6G SDI** **ULTRAHD**

**UltraStudio 4K Extreme** features Quad Link 12G-SDI working with 2160p60 over a single cable, or even Dual Link or Quad Link SDI. Also includes HDMI 2.0, analog component, 4 channel XLR analog and 2 channels AES/EBU digital audio, timecode, reference and serial deck control. Connects via Thunderbolt or with an optional PCIe adapter for higher frame rates and 4K RGB workflows.

**12G SDI** **ULTRAHD**



UltraStudio 4K Extreme



## The Power of Thunderbolt™

Built on revolutionary Thunderbolt™ technology, UltraStudio uses a blazingly fast single cable connection to your computer that has the bandwidth to handle the highest resolution video formats easily! Thunderbolt ensures low latency and highly accurate time synchronization for the highest quality capture and playback. UltraStudio Express and UltraStudio Mini models are powered via the Thunderbolt connection so they are extremely portable. The high performance UltraStudio 4K and UltraStudio 4K Extreme models feature double speed Thunderbolt 2 with loop thru and 6G-SDI or 12G-SDI, making them ideal for demanding 3D stereoscopic workflows, Ultra HD and DCI 4K.



## Unmatched Quality

Amazing 4K resolutions in compressed or uncompressed

UltraStudio 4K supports popular compressed video formats such as ProRes and DNxHD as well as 10-bit uncompressed video, so you're not locked into a single file format. When working with uncompressed video all captured images are a perfect pixel-for-pixel clone of the source without any quality

loss, so you have the confidence you're working at the absolute highest quality possible. Get the sharpest keying with green screens, cleanest compositions, superior color correction and more! Ultra HD 4K has 4 times the resolution of 1080HD for amazing looking images!



**12G SDI**

**6G SDI**

1080p60

2160p30

2160p60

## 6G SDI

Compatible with SD, HD and Ultra HD formats

UltraStudio 4K features 6G-SDI so you get full compatibility with all your SD, 720p and 1080HD equipment up to 60 fps, plus you can instantly switch to Ultra HD up to 30 fps! That's an incredible range of video formats with a single regular BNC SDI connection! Because the 6G-SDI connections are multi rate, they can switch between 270 Mb/s, 1.5 Gb/s, 3 Gb/s and 6 Gb/s data rates for compatibility with your existing SD, HD or Ultra HD equipment.

**6G SDI**

## 12G SDI

Incredible speed for high frame rate Ultra HD

UltraStudio 4K Extreme features the latest 12G-SDI technology, making it the world's most powerful video capture and playback solution! The incredible speed of 12G-SDI means UltraStudio 4K Extreme can support both capture and playback of Ultra HD and 4K 60p over a single BNC cable! Because the 12G-SDI connections are multi rate, you can still connect to all your existing equipment. Only 12G-SDI gives you the compatibility to connect to all your existing SD and HD equipment but also supports the future with all Ultra HD formats up to 2160p60. UltraStudio 4K Extreme even supports dual link 12G-SDI so you can do stereoscopic and simultaneous fill and key all in real time!

12G SDI



## Attractive Design

Elegant styling and exceptional durability

UltraStudio 4K's elegant front panel has an integrated color LCD and fast to use video and audio input buttons, all with

built in video and audio connections using standard BNC, HDMI and XLR connectors. UltraStudio Express is machined

from a solid block of aluminum to provide fantastic strength and portability. For flexibility the design includes breakout cables with professional BNC and XLR connections or

consumer RCA connections. UltraStudio Mini models fit into the palm of your hand and feature SDI and HDMI connections at one end and a Thunderbolt connection at the other!



## Mac OS X

Use your Favorite Software

UltraStudio is supported by a huge range of software applications for Mac OS X. Get drivers that work with fantastic editing software such as Final Cut Pro X, Premiere Pro CC, Avid Media Composer, Avid Symphony and Avid News Cutter. For visual effects get full compatibility with Fusion, After Effects CC and Photoshop CC. For audio get compatibility with ProTools, Steinberg Nuendo and Cubase. For streaming use Flash Media Encoder, Wirecast, Livestream Procaster.



## Windows

Unrivalled compatibility

For Windows you get access to a massive range of software because UltraStudio supports WDM, DirectShow and QuickTime! For editing you can use Avid Media Composer, Avid News Cutter, Premiere Pro CC, Sony Vegas Pro, Corel VideoStudio, CyberLink Power Director and MAGIX Video Pro. For visual effects use Fusion, After Effects CC and Photoshop CC. Audio software supported includes Steinberg Nuendo and Cubase. When streaming you get compatibility with Flash Media Encoder, Xsplit Broadcaster, Wirecast and Livestream Procaster.





### **UltraStudio 4K**

Thunderbolt or Thunderbolt 2 solution, Dual Link 6G-SDI, HDMI, Analog, 4:4:4, 3D, Ultra HD and 4K.



### **UltraStudio 4K Extreme**

Thunderbolt and PCIe solution, 12G SDI, HDMI 2.0, Analog, 4:4:4, Ultra HD and 4K up to 2160p60 and hardware encoder for H.265 and ProRes on Mac OS X.