



## **Blackmagic Design Camera Fiber Converter**

**ProdCode: BMDCINEURSANMFR**

Connect cameras to live switchers up to 2 km away with video, talkback, control and power, all over a single cable

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### **Features**

- Extend and power your camera from up to 2 km using industry standard SMPTE fiber cables
- Includes common live camera controls with multiple channels of talkback and standard television industry talkback headset connections
- Features 1 Ultra HD camera feed, plus 3 HD return feeds in a compact IP video based design
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### **Connections**

- Optical Fiber Input - 1x SMPTE Hybrid Fiber Optic with SMPTE 304 connector (Male)
- SDI Video Input - 1x 12G SDI for Camera feed
- SDI Video Output - 1x 12G SDI for Camera return feed, 3x 3G SDI for Return SDI Outputs
- Talkback Audio - 2x 5-pin XLR for headset with three way audio mixer per output, 1x Tracker output
- Analog Audio - 2x 3-pin XLR Inputs for AES, Line or Mic input. Phantom Power available

- Computer Interface - 1x USB-C connector

## **Blackmagic Camera Fiber Converter**

The Blackmagic Camera Fiber Converter attaches to the back of your URSA Mini or URSA Broadcast camera. In addition to converting all of the audio, video, camera control and talkback into fiber, it also adds professional studio camera controls to the back of your camera. You get control for return feeds, dual intercom controls with the ability to mix in program audio, record, focus and iris controls, headset connectors, audio and more. The camera converter also includes a VLock mount plate on the top for attaching accessories such as a professional Blackmagic Studio Viewfinder. The Blackmagic Camera Fiber Converter has connections for your Ultra HD camera feed, 3 HD return feeds, full remote camera control, PTZ, multiple channels of talkback, tally and more.

## **Blackmagic Fiber Converters**

### **Extend and fully power cameras up to 2 km away using an open standard SMPTE fiber cable**

The Blackmagic Camera Fiber Converter and Blackmagic Studio Fiber Converter convert standard television industry connections for video, audio, power, talkback, and tally into a single SMPTE fiber optic cable. This allows cameras to be placed up to 2 km away from a studio or outside broadcast truck using a single convenient and incredibly durable cable. The Blackmagic Camera Fiber Converter also adds familiar broadcast studio camera controls to the rear of the camera, plus additional connections so you can use it with the talkback systems and switchers you already have. The Blackmagic fiber converters feature 12G-SDI and are designed to work with all HD and Ultra HD formats up to 2160p60. Now you can transform professional cameras such as URSA Broadcast and URSA Mini into a complete professional studio camera with all of the features you need for high end work.

## **Place Cameras Anywhere**

### **Get cameras much closer to the action**

If you're working in a studio or out at a large sporting venue, you often need to place cameras far apart. While SDI connections are common, the limited range of SDI makes it hard to use it over long distances. Traditionally, you would need to run multiple cables and expensive extenders for power, talkback, tally, video and audio. This makes set up incredibly complex and increases the chances of a technical problem. Now you can solve this problem by converting all essential connections and

power into a single convenient SMPTE fiber cable that can run incredibly long distances. That means cameras can be placed anywhere and connected back to broadcast trucks parked outside of a venue or back to a central control room in a studio. Best of all, SMPTE fiber is a global broadcast industry standard so you can use cables and connection points that are commonly available. Blackmagic fiber converters are also affordable, so traditional broadcasters, new web broadcasters, AV producers, houses of worship and educators can all use the same high end broadcast technology.

## **SMPTE Fiber for Industrial Strength and Safety**

### **Built in multi layer fail safe instantly cuts power to eliminate danger**

Blackmagic fiber converters work with standard SMPTE 311M hybrid electrical and fiber optic cables with standard SMPTE 304 connectors on each end. These cables feature a 2 way fiber pair, data pair and power pair, along with a central strength member that gives it the needed durability for continuous use. Once plugged in, the Blackmagic Studio Fiber Converter automatically performs safety checks and then powers up, sending an industry standard 200 volts of power over the SMPTE cable for the camera and accessories. This means you can install cameras in remote locations without having to worry about power drops over long distances. Both the studio and camera converters at each end have dedicated micro controllers that continuously monitor power status. The converters communicate with each other to ensure that both a stable optical signal is present and that the power supply is operating within safe parameters. If a damaged cable or a earth leak is detected, the power is instantly shut down to eliminate any danger to personnel.

## **Add Studio Camera Controls**

### **Transform broadcast cameras into dedicated studio cameras**

Studio cameras are typically operated from the rear of the camera, but broadcast cameras usually have controls on the side of the camera. To solve this problem, the Blackmagic Camera Fiber Converter adds support for SMPTE fiber to your camera along with a wide range of controls and features to the rear of the camera, transforming it into a professional studio camera. You get 2 separate broadcast standard 5 pin talkback connections, 3 return video feeds, 2 extra audio inputs, connections for PTZ and trackers, plus additional DC and D-tap outputs for powering accessories. With all these extra controls added to the rear of the camera, you can operate the camera in the same way as traditional studio cameras.

## **10G Ethernet for IP Video**

## **Super fast, low latency ethernet link for video, audio and control**

The Blackmagic Camera Fiber Converter and the Blackmagic Studio Fiber Converter use IP video because the SMPTE fiber connection is an open standard 10G Ethernet link. That means all of your video and return feeds are IP video based using high end, lossless broadcast quality 10-bit video encoding and decoding. All other connections such as talkback, tally, camera control and lens control are also converted to low latency IP so you get incredibly reliable performance and high quality. Using IP video means the Blackmagic fiber converters are future proof and ready for customization using high speed Ethernet infrastructure in future.

## **Dual Channel Talkback**

### **Two dual channel talkback intercoms with backup**

The Blackmagic Camera Fiber Converter and Blackmagic Studio Fiber Converter provide 2 dual channel digital talkback connections that are compatible with professional 5 pin XLR talkback headsets. The camera converter even has convenient controls for mixing in program return audio with your talkback headset so you can adjust the volume as needed while talking to the rest of the crew. The talkback intercoms can be used for both production and engineering. In addition, there is a backup channel available for troubleshooting in case the fiber link is down. This backup talkback channel automatically switches over and uses the data pair in the SMPTE cable if the fiber is not working. The Blackmagic Camera Fiber Converter also includes a standard 10 pin connection for tracker talkback, which is perfect when both headset connections are in use and you need to feed an additional talkback connection through to your crane operator.

## **Designed for High End Broadcast**

### **Durable metal design, high end components and professional connections**

The Blackmagic Camera Fiber Converter features an extremely durable all metal design that perfectly matches URSA Broadcast, URSA Mini cameras or any camera that supports a standard battery plate. It's built to withstand the harsh demands of outdoor field production and 24/7 operation. The Blackmagic Camera Fiber Converter features full size standard television industry connections with dust caps, along with an integrated VLock mount plate on top for adding a studio viewfinder. The Blackmagic Studio Fiber Converter is designed so that you can fit two of them side by side in a standard equipment rack using the optional rack mount kit. The optical fiber connector on the Blackmagic Studio Fiber Converter is conveniently located on the front panel, right next to the built in 5 inch LCD, so you can plug remote cameras in and instantly see the feed.

**In the box:**

- Blackmagic Camera Fiber Converter
- Mounting Bracket and screws for attaching to URSA Mini and URSA Broadcast cameras
- 3 x Short 12G SDI cables for SDI In and Out connectiong to URSA Mini and URSA Broadcast
- SD card with software and manual

