

# Blackmagic Design ATEM Mini Extreme ISO G2

**ProdCode: BMDATEMEXTISOG2**

Compact live switcher

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## Features

- Low cost, multi camera, live production with advanced broadcast features
- Faster Video Production plus Live Streaming
- Self Contained Broadcast Quality Switcher
- Easy to Use and Fast to Learn
- Stream Live Interviews
- Connect up to 8 Independent Cameras
- Outputs to HDMI Video and USB Webcam
- Live Stream via Ethernet
- Connect 5G or 4G Phones for Mobile Data
- Record Direct to USB Flash Disks or CFexpress
- Includes Free ATEM Software Control Panel
- Add a Hardware Switcher Control Panel
- Add a Camera CCU Style Camera Panel
- DVE for Picture in Picture, Transitions and Effects
- True Broadcast Style Mix Effects Switching
- Monitor Sources and Status with Multiview
- Built In Audio Mixer with 6 Band EQ, Compressor and Limiter

- Sync to Blackmagic Cloud and Editors Globally
- Get Powerful Broadcast Replay with DaVinci Resolve
- Control and Colour Balance Cameras
- Record to an External Recorder
- Built-in Thunderbolt and DaVinci Resolve for Live Action Replay
- Share Internal Storage with Multiple Users
- Add Audio Expansion for More Microphones
- Works With All Popular Video Software

ATEM Mini switchers make it easy to create professional multi camera productions for live streaming to YouTube and business presentations using Zoom or Teams. Simply connect ATEM Mini and you can switch live up to 8 high quality video camera inputs for dramatically better quality images. You can use the built in DVE for exciting picture in picture effects, perfect for commentary. Plus, ATEM Mini is loaded with video effects and secret broadcast features you can use to produce high end work. ATEM Mini supports SRT streaming for low latency and secure streaming. You can even sync your recording to Blackmagic Cloud, so you can edit your live production with DaVinci Resolve anywhere in the world.

### **Faster Video Production plus Live Streaming**

Live production is the fastest way for you to complete a finished program, which you can also simultaneously stream via YouTube to a live global audience. ATEM Mini has a built in hardware streaming engine that works with both RTMP and SRT streaming protocols, so you can live stream to all popular social media platforms and without any extra streaming software required. ATEM Mini features up to 8 HDMI inputs, depending on the model, that you can use to set up multiple camera angles such as wide shots and close ups. Then you can connect to an HDMI computer with PowerPoint slide shows, websites and gaming consoles. You get a full broadcast studio in one.

### **Self Contained Broadcast Quality Switcher**

ATEM Mini's compact all in one design includes both a control panel as well as connections. The front panel includes easy to use buttons for selecting sources, video effects and transitions. The source buttons are large so it's possible to use it by feel, letting the presenter do the switching. You even get buttons for audio mixing. You also get buttons for record and streaming control, as well as output selection buttons that let you change the video output between cameras, program and multi-view. On the rear panel there are HDMI connections for cameras or computers or even gaming consoles, extra microphone inputs, USB for webcam out plus an HDMI "aux" output for program video.

# ATEM Mini Extreme ISO G2

Powerful live switcher with 8 HDMI inputs, built in streaming engine, multi-view, Thunderbolt for record/playback. USB webcam, DVE, chroma key, media player and ISO recording of all 8 video inputs.

## Easy to Use and Fast to Learn

There's never been a switcher that's easier to use, as you simply press any of the input buttons labelled by number on the front panel to cut between video sources. You can choose between cut or effects transitions by selecting the cut or auto buttons. Unlike cut, the auto button tells ATEM Mini to use a video effect when switching inputs. You can select from exciting transitions such as dissolve, or more dramatic effects such as dip to colour, DVE squeeze and DVE push. Add a DVE effect for picture in picture effects with customized picture positions and background. There are even "media players" which are a still store for titles and graphics that you can load via external software control.

## Stream Live Interviews

ATEM Mini is ideal for interviews as you can connect multiple cameras for close ups of the host, or interviewee, as well as wide shots plus ATEM Mini is so small the host can even switch in small studios. Plus ATEM Mini's built in streaming supports live streaming to YouTube, Facebook and more.

- **Business Presentations via Zoom**

Get dramatically better business presentations on Zoom because ATEM Mini makes Zoom see it as a webcam, so you can select it in the Zoom settings. One camera can be a close up, another for a wide shot and a computer for PowerPoint presentations. The presenter can even use picture in picture.

- **Live Stream eSport Competitions**

Live stream eSport competitions to Twitch by simply connecting multiple gaming consoles and a camera for a presenter. ATEM Mini operates up to 60 frames per second for fast gameplay and you can use picture in picture for commentary. You can even download titles direct from Photoshop.

- **Kickstarter and Investor Updates**

Raise the professionalism of Kickstarter or investor presentations to fund your new product idea. Connect a camera for the presenter, a camera for a product close up and a computer for business plan slides. Then present live via Zoom and even post recordings for investors to view later.

- **Education and Training**

ATEM Mini is perfect for educational videos. Setup is fast and easy, so you can travel to locations and record live multi camera video productions on a wide

range of educational topics. Connect computers and cameras and use the ATEM Software Control to load titles and perform video effects.

## **Connect up to 8 Independent Cameras**

With 4 or 8 HDMI inputs depending on the model, you can connect multiple cameras for different views. Video cameras with HDMI outputs are better quality than simple webcams as they use higher quality lenses and have better low light sensitivity. All video sources will re-sync to the switcher if they operate at different video standards so you don't have to worry about connecting video devices as they all just work. Cameras with HDMI often support interchangeable lenses so you can change to wide angle lenses for wide shots and zoom lenses for close ups. Imagine taking advantage of the low light capability of better cameras for theater productions, weddings, school concerts and music videos.

## **Outputs to HDMI Video and USB Webcam**

To ensure maximum compatibility, all ATEM Mini models feature USB that operates as a simple webcam source. That means you can plug into a computer and get working with any video software. The software is tricked into thinking the ATEM Mini is a common webcam, but it's really a live production switcher. That guarantees full compatibility with any video software and in full resolution 1080 HD quality. Choose any software you like, such as Zoom or Microsoft Teams for a new way to do presentations with a professional multi camera broadcast quality style. The ATEM Mini webcam output also works with streaming software such as Open Broadcaster, XSplit Broadcaster and more.

## **Live Stream via Ethernet**

ATEM Mini has a built in hardware streaming engine for live streaming via their Ethernet connections without the need for a computer. That means you can live stream to YouTube, Facebook and Twitch in better quality, without dropped frames and with simpler settings. Just select the streaming service and enter the streaming key. There are palettes in ATEM Software Control for streaming setup, plus the streaming status is also displayed in the multi-view. Streaming status is easy to understand as the data rate indicator shows the internet speed required for the video format you're using. If you're technically minded, you can update the streaming profiles in an XML settings file to load new services.

## **Connect 5G or 4G Phones for Mobile Data**

If you're doing live production on location then ATEM Mini supports connecting an Apple or Android smartphone to the USB port to use mobile data. It's also a great

backup for the main Ethernet connection. Phone tethering works with the latest high speed 5G phones plus the more common 4G phones. The ATEM Mini switcher will automatically detect when a phone is connected to the USB port and switch its internet connection to use it, eliminating the need for changing settings. When connected, the phone will draw power from the USB port so it remains charged from the switcher. By using phone tethering and mobile data, ATEM Mini switchers become the perfect mobile production solution.

## **Record Direct to USB Flash Disks or CFexpress**

Depending on your model, ATEM Mini also supports direct recording of your streaming data to USB flash disks or CFexpress cards. That means you get very long recording times in the same H.264 video files with AAC audio that you streamed, so you can directly upload to online video sites, such as YouTube or Vimeo. Recording to multiple disks is also supported via a USB hub or Blackmagic MultiDock, so when a disk fills recording can continue to a second disk for non-stop recording. Record settings and disk selection are set up in ATEM Software Control and there's a record status view in the built in multi-view. You can even remotely trigger recording on connected Blackmagic Pocket Cinema Cameras.

## **Record All Inputs for Editing**

- **ATEM Mini Extreme ISO G2**

Powerful live switcher with 8 HDMI inputs, built in streaming engine, multi-view, Thunderbolt for record/playback. USB webcam, DVE, chroma key, media player and ISO recording of all 8 video inputs.

## **Edit Live Production with Separate ISO Recordings**

The ATEM Mini Pro ISO and Extreme ISO models allow you to edit your live event as they can record multiple video streams, including clean feeds of all inputs and program, all at the same time. Media pool images used are also saved with the video files. The video files include metadata tags such as synced timecode and camera numbers. Imagine re-editing your show with new colour grades, effects and graphics. Even the audio sources are all recorded so you can professionally remix your audio.

## **Edit Live Production in DaVinci Resolve**

The ISO models also save a DaVinci Resolve project file, so with a single click you can open your live production as a video edit. All cuts, dissolves and media pool graphics will be loaded. This means you can fine tune edit points or even completely replace shots. The DaVinci Resolve Sync Bin lets you select new shots via a multi-view so it's very easy to use. You can even relink to Blackmagic RAW camera files for adding

professional colour correction and finishing in Ultra HD.

## **Add Exciting Video Effects**

One of the benefits of ATEM Mini is the professional production values that are possible using the range of built in video effects. The cut button ensures an instant cut when switching between sources. The auto button is a professional term that's used on large broadcast switchers to enable video effect transitions. There are duration buttons for video effects allowing 0.5, 1, 1.5 and 2 second settings. You can also select the type of effect you want including mix, which does a smooth transition between sources, and dip which fades via a colour during the transition. Or use fun DVE effects that move the image off screen when transitioning between sources.

## **Work with Professional Microphones**

With two independent 3.5mm stereo audio inputs or XLR inputs depending on the model, you can connect desktop and lapel microphones. You can even connect a music player to generate introduction music after the live stream commences but before the program starts. With 2 extra stereo audio inputs, you can ensure a host and guest both have lapel microphones when doing interviews. All audio inputs to ATEM Mini include buttons on the panel for adjusting audio level and enabling inputs into the audio mixer. Plus all models feature a Fairlight audio mixer with all HDMI inputs and both microphone inputs connected to the audio mixer so you can live mix from all audio sources. The ATEM Mini Extreme also adds a headphone output.

## **Automatically Converts Any HDMI Input Format**

Each of the HDMI inputs feature their own dedicated standards converter. That means ATEM Mini will automatically convert 1080p, 1080i and 720p sources to the switcher video standard. By default the switcher will set its video format automatically, however you can also set the switcher to any video standard. The HDMI outputs are a true "aux" output so you can clean switch each HDMI input to the output. You can even "direct" switch input 1 to the HDMI output for low latency eSport productions. Plus ATEM Mini Extreme models support 2 low latency direct loops. The HDMI output can display a full multi-view that lets you see all inputs, program, preview and streaming status on a single monitor.

## **Secret Broadcast Features Built In**

While ATEM Mini is easy to use, it's also hiding very powerful broadcast features. If you're interested in a career in the television industry, then ATEM Mini is perfect for training as it has the same features as switchers in high end broadcast studios. You get an ATEM Advanced Chroma Key, Fairlight audio mixer, DVE, still store for

graphics and much more. Simply run the free ATEM Software Control app on Mac or Windows while connected via USB or Ethernet to access the extended features of the ATEM Mini. With a little experimentation you can learn how to produce broadcast quality live production. Only ATEM Mini is a true broadcast switcher hidden in a tiny and affordable design.

### **Includes Free ATEM Software Control Panel**

The ATEM Software Control app unlocks the hidden power of ATEM Mini and allows access to every feature in the switcher. ATEM Software Control features a visual switcher user interface with parameter palettes for making quick adjustments. Although you can normally connect via USB, if you connect using Ethernet it's possible for multiple users to connect to ATEM Mini using separate copies of ATEM Software Control on different computers. The software lets you access full audio mixing with effects, load still frames and even do advanced macro programming. You can even save the switcher state as an XML file. If you need clip playback, you can even control HyperDeck disk recorders via Ethernet.

### **Add a Hardware Switcher Control Panel**

The ATEM Micro Panel is a low cost solution for adding a professional hardware panel to live switch with ATEM Software Control. It has the same high end buttons as ATEM Advanced Panels for a true broadcast quality feel. It also has a familiar layout with buttons for controlling program and preview and a shift button to access up to 20 sources. There are dedicated buttons to control up to 4 upstream and downstream keys, plus macros. There's a fader for smooth manual transition control and it's also low profile and very portable. With connection to ATEM Software Control via USB-C or Bluetooth and an internal battery, ATEM Micro Panel is perfect when you need a separate portable panel.

### **Add a Camera CCU Style Camera Panel**

The ATEM Micro Camera Panel lets you control your cameras with a high end broadcast CCU style controller. It's portable because it has an internal battery and connects via Bluetooth or USB-C. Buttons along the side let you select between 8 cameras, plus you can check which cameras are currently on-air before adjusting them. The design features a smooth machined metal control for adjusting iris and pedestal. You can also control the camera's shutter speed, white balance, RGB gain and more.

### **DVE for Picture in Picture, Transitions and Effects**

One of the most exciting features on ATEM Mini is the digital video effects processor,

commonly referred to as a "DVE", that allows picture in picture effects and crazy DVE transitions. The DVE lets you create professional picture in picture effects with customizable 3D borders, shadows and lighting. The image quality is the same as high end ATEM switcher models and the DVE supports position, resize and scale, all in real time. The DVE can also be used to create amazing transitions with 16 different DVE squeeze and DVE push effects for adding excitement to your programming. The DVE features a "fly key" so you can use it with custom graphics to create graphic wipe transitions.

## **Professional Broadcast Transitions**

ATEM Mini includes a wide range of broadcast quality HD native transitions such as mix, dip, wipe and more. All transitions can be customized by adjusting parameters such as duration, border colour, border width, position and direction. You can also use the DVE in transitions, allowing a graphic to be moved over the wipe edge which is called a graphic wipe, and is used in sports programming. To eliminate errors, ATEM Mini has a preview transition feature so you can check your transitions before putting them to air.

## **Supports Internal Media for Stills and Motion Graphics**

The built in media pool stores broadcast quality graphics and animations that can be played back using the built in media players. Media players appear as independent sources so you don't need to waste any of the SDI inputs for graphics. For highest quality, all media supports RGB colourspace with alpha channel, allowing transparency and layering. The media pool can hold 20 HD or Ultra HD resolution stills. Depending on the model, motion graphics clips for animations and stingers can be up to 800 frames in 720HD, 400 frames in 1080HD and 200 frames in 2160 Ultra HD. The ATEM Software Control allows you to upload and manage media. You can even prepare graphics in Adobe Photoshop and then download to the media pool using the free ATEM Photoshop plug-in.

## **Includes ATEM Advanced Chroma Key**

For news or on-set presentation work, ATEM Mini is perfect as it features the powerful ATEM Advanced Chroma Key for green screen keying effects. The chroma keyer is incredibly powerful and features a colour picker to sample background colours for automatic generation of the key parameters. You get precise controls for edge and flare, and there is even a foreground colour corrector so you can match the foreground and background layers for seamless compositions. You can even use it for title overlays by creating graphics with a green or blue background. Plus the ATEM Mini Extreme includes a massive 4 ATEM Advanced Chroma Keyers, that's a keyer per camera for fixed camera virtual set production.



## **Create Amazing Virtual Sets**

The ATEM Mini Extreme models include 4 upstream chroma keyers and this allows you to build exciting virtual sets. With 4 independent chroma keyers, you get a keyer per camera so you can build a virtual set for up to 4 cameras. With ATEM Mini Extreme you have 8 inputs, 4 to use for cameras and the other 4 can be connected to a virtual set computer for the rendered backgrounds. Or if you don't want to move your cameras, you can do fixed camera virtual sets by loading pre rendered still image backgrounds from the media players and media pool. You can set up macros to change cameras and load the correct background into the media players. Or even use a DeckLink Quad HDMI and live virtual set software.

## **Powerful SuperSource Processing**

In addition to 2 independent DVEs in the ATEM Mini Extreme models, there's also a powerful SuperSource multi layer processor with 4 extra DVE layers plus a background layer, that all appear to ATEM Mini Extreme as an additional input source. Any ATEM Mini Extreme video input can be used for each SuperSource DVE, then it's all layered together over a media pool custom background. SuperSource is perfect for doing multiple picture in picture displays with people being interviewed because you can set up the effect before putting it to air, still keeping both main DVEs free for other tasks. SuperSource is just like having an extra multi-layer VFX switcher built in.

## **True Broadcast Style Mix Effects Switching**

Although ATEM Mini works in "cut bus" mode when first purchased, it can also be changed to "program/preview" style operation, which is the way large broadcasters use live production switchers. Cut bus switching is easy and selecting any input will instantly switch to that source. However if you want to operate ATEM Mini like a true professional then you can change the switcher to program/preview using ATEM Software Control. Mix effects operation allows a source to be selected but it won't be put on air until you press the cut or auto buttons. That 2 step program/preview process means fewer mistakes. Program/preview operation is best for training students for a career in broadcast.

## **Monitor Sources and Status with Multiview**

When doing larger live productions with multiple cameras, it's very useful to see all your video sources at the same time on a single monitor. All ATEM Mini models include a professional multi-view that lets you see all video inputs, preview and program on a single HDMI television or monitor. Simply select M/V on the front panel video output control buttons to select multi-view. Each camera view includes tally indicators so you know when each source is on-air, and each view also has custom

labels and audio meters. Plus the ATEM Mini Extreme models allow you to select up to 16 custom views. Multi-view even allows you to monitor critical statuses for recording, streaming and the audio mixer.

### **Built In Audio Mixer with 6 Band EQ, Compressor and Limiter**

With a built in Fairlight audio mixer, ATEM Mini makes it possible to do complex live sound mixing. The internal mixer features enough channels for each HDMI input so you can mix audio from all sources. That's audio from all HDMI sources and the 2 stereo mic inputs. Each input channel features the highest quality 6 band parametric EQ and compressor, limiter, expander and noise gate as well as full panning. You can even set up the software to auto mix between inputs as you switch "AFV" or to live mix multiple sources together all at once. All this audio power can be controlled via ATEM Software Control, or you can add a Mackie compatible panel or even a massive Fairlight Audio Console.

### **Sync to Blackmagic Cloud and Editors Globally**

ATEM Mini ISO models can automatically upload the recorded ISO files plus the DaVinci Resolve timeline of the live switching to Blackmagic Cloud as soon as you stop recording, so your media is available to editors in just minutes. The ability to transfer media directly into the DaVinci Resolve media bin so editors and colourists can start work as soon as the live production is finished is revolutionary and has never before been possible. Any editor working anywhere in the world will get the shots. All media is recorded in sync with matching time code, you can even relink to Blackmagic RAW camera files for finishing in Ultra HD. Blackmagic Cloud is the fastest way to create television shows.

### **Get Powerful Broadcast Replay with DaVinci Resolve**

Introducing a new generation of live action replay. Blackmagic Replay is totally unique because it uses the ISO files recorded by ATEM Mini ISO models to do replay in DaVinci Resolve. The ISO files are recorded to a USB-C disk or CFexpress card, depending on the model, which DaVinci can access via Ethernet. On a Mac, you can use the new multi-view in the cut page to view all cameras in DaVinci Resolve at the same time. This makes it easy to see which camera to play and sequence between shots. The files will even continuously upload as you're recording so you can edit live. Because DaVinci Resolve is also an extremely powerful editor you can convert replays into promos, title sequences and instant social media updates.

### **Create Global Broadcast Streaming Links with ATEM Streaming Bridge**

The ATEM Streaming Bridge is a video converter that lets you receive a H.264 stream

from any ATEM Mini model and convert it back to SDI and HDMI video. This means you can send video to remote locations around your local Ethernet network, or via the internet globally. That's possible because it uses advanced H.264 codecs for higher quality at very low data rates. Imagine broadcasters and bloggers collaborating on shows and creating global networks of ATEM Mini remote broadcast studios. Setup is easy as the ATEM software utility can create setup files that you can email to remote studios. ATEM Streaming Bridge is the perfect way to use ATEM Mini as a remote broadcast studio.

## **Control and Colour Balance Cameras**

For a more broadcast style workflow, you can remote control your cameras from ATEM Mini. Blackmagic Pocket Cinema Camera and Blackmagic Studio Camera can work as studio cameras with control sent via the HDMI connection to ATEM Mini. That means you can control the camera settings as well as the camera's colour corrector from ATEM Software Control. Imagine changing ISO and tint, plus lens iris, focus and zoom, so camera operators can focus on the shot. There are two types of control interface, CCU layout for traditional tint colour control and a DaVinci colour corrector interface allowing the camera's built in DaVinci colour corrector to add incredible digital film "looks" to your live production.

## **Develop Custom Remote Control Solutions**

The Ethernet connection also allows customized control solutions. Even though ATEM Mini includes ATEM Software Control, you can use the Ethernet to control the ATEM remotely, anywhere in the world. A popular workflow is to use the Ethernet to allow the ATEM Mini to be positioned near the HDMI cameras, but the control is positioned remotely in a quieter space, such as a control room. Imagine using the switcher from a control room and building a professional broadcasting studio where the control room can be separated away from the performance or interviews. Ethernet allows you to add as many panels as you like all at the same time, or you can build custom solutions using the developer SDK.

## **Record to an External Recorder**

The HDMI program output is perfect for connecting ATEM Mini to an external recorder or monitor. ATEM Mini supports external recorders such as Blackmagic Video Assist. You get a high quality output with switcher program video, plus live audio from the internal audio mixer. The HDMI output can even be connected to video projectors in large venues. If you connect ATEM Software Control you can even ISO record from one of the inputs. Plus you can generate multiple formats by recording from the HDMI program output in a high quality format such as ProRes, while simultaneously using the built-in recording to H.264 video stream on a USB flash disk or CFexpress card.

## **Build the World's Most Amazing Broadcast Studio**

The ATEM Mini Extreme ISO G2 is ideal for building a high-end broadcast studio as it offers all the ATEM Mini features plus extra professional features. It has a professional style control panel with amazing input buttons. It has 3 independent video outputs that can be routed. The built-in Thunderbolt offers live video capture and playback, enabling real-time effects software or DaVinci Resolve for live action replay. The CFexpress card can also be accessed over your network via 10G Ethernet. For audio, it has balanced XLR in, MADi in and a Fairlight status display with menus. There's also a headphone socket for audio monitoring. You even get 200 frames of animation in the media pool.

### **Built-in Thunderbolt and DaVinci Resolve for Live Action Replay**

With Thunderbolt on the ATEM Mini Extreme ISO G2 model, you get fill and key playback, capture, Ethernet access to the CFexpress card and trickle power all with a single computer connection. This means you can use DaVinci Resolve as a full live-action replay system. DaVinci Resolve can show a live video input of the switcher, and when you press the Point of Interest (POI) button, DaVinci will switch to playing all 8 ISO files so you can select cameras and run replays. You can then preroll and sequence multiple cameras in the same replay. With optical flow speed changes. Then load your replay into the timeline and upload it to social media. No traditional replay system can do that.

### **Share Internal Storage with Multiple Users**

ATEM Mini Extreme ISO G2 is not just a switcher, it's also a shared network disk using the 10G Ethernet port to the internal CFexpress memory card or external USB disk. CFexpress cards are extremely fast so they can keep up with recording multiple ISO video files while external network users all work on separate computers for editing, colour correction, VFX and audio post production. Plus the internal network storage is extremely easy to set up. You can even sync to Blackmagic Cloud so you can distribute the recorded media files between editors and designers anywhere in the world. That means the ATEM Mini Extreme ISO G2 is only part of a much bigger global post-production workflow.

### **The Most Advanced Broadcast Quality Control Panel**

The ATEM Mini Extreme ISO G2 is a combined switcher and control panel, so it's the most portable professional switcher available. It has everything you need. The front panel has buttons for selecting sources, triggering transitions, and setting video effects. The buttons are the same high-end type used on our ATEM Advanced Panels, so they feel great to use. You also get a manual transition fader control. The front

panel features an innovative audio mixer control area with live metering on a Fairlight style HDMI status output. You get buttons for recording, streaming, and dedicated output buttons for changing outputs between the 8 cameras, program, preview, multi-view, or Fairlight status.

## **Add Audio Expansion for More Microphones**

If you're building a podcasting studio or you need more microphones, then the ATEM Microphone Converter allows audio input expansion. It connects to the ATEM Mini Extreme ISO G2 using the MADI port, so there's no complex setup and you can daisy chain units to add more inputs. Each converter has 4 analog inputs that are mic/line selectable and have phantom power. The design features amazing quality with an extremely low noise floor of -129dBV, a dynamic range of 131dB(A), low distortion of 0.002% and uniform tolerances across all channels. It even uses 8 separate ADCs on each input to collectively extend the dynamic range. Plus it has a fun HDMI monitoring output with scrolling audio waveforms.

## **Works With All Popular Video Software**

With its Thunderbolt connection and high speed 10G Ethernet, ATEM Mini Extreme ISO G2 is compatible with all popular video software, so you have the freedom to work with the tools you already know such as DaVinci Resolve for broadcast editing and colour correction work. Because the Thunderbolt connection supports capture and playback at the same time, you can even use the live grading features in DaVinci Resolve to capture video, apply colour correction and then output it all at the same time. Plus ATEM Mini Extreme ISO G2 works with other editing software like Final Cut Pro, Media Composer, and Premiere Pro. You can create stunning visual effects with Fusion, After Effects, and Photoshop.

## **Build Real Time Video Processing Software**

If you want to create real time effects software, then the Thunderbolt connection on the ATEM Mini Extreme ISO G2 will let you capture video into a computer, process it and then output back into the switcher, all in real time. Blackmagic Design's Desktop Video SDK lets you manage all the video capture and playback using the Thunderbolt port. The Blackmagic Desktop Video SDK is also used in Blackmagic Design's DeckLink capture cards and UltraStudio Thunderbolt products. Thousands of manufacturers and developers rely on Blackmagic DeckLink cards in their products, ensuring the robustness of the Desktop Video SDK as a solid foundation for developing commercial-quality broadcast solutions.

## **Switch Faster with an ATEM 1 M/E Advanced Panel**

With Ethernet built in, ATEM Mini can use hardware control panels for high end workflows that take advantage of the hidden broadcast features in the switcher. The ATEM 1 M/E Advanced Panel features the fast program/preview style with separate source buttons for both program and preview rows. Get direct access to all transitions automatically or manually using the t-bar. For accurate control of the DVE, the joystick provides X, Y positioning with rotation setting DVE size. You also get LCD menus to control features that don't have dedicated knobs and buttons. You can even program and trigger macros. Plus you can use ATEM 1 M/E Advanced Panel later if you upgrade to a bigger ATEM switcher.

## **Match Cameras with an ATEM Camera Control Panel**

When working on live production, it's critical all cameras are perfectly colour matched for a consistent look as you transition between different sources. The ATEM Mini Extreme ISO G2 features built-in camera control, but you can enhance it by adding a dedicated ATEM Camera Control Panel. This panel provides broadcast-style CCU controls that are the same as broadcast style CCU controllers. The knob is large and highly precise, and there are clean and easy-to-read status LEDs. The large joystick allows direct adjustment of iris and rotates to set black level. There are even red, green and blue knobs for fine control of camera colour tint.

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## **Need Further Support?**

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