



Blackmagic Design ATEM Mini Pro

ProdCode: BMDSWATEMMINIBP

4 HDMI input live production switcher with the ability to record to USB flash disks and direct live stream via Ethernet

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Features

- 4 HDMI input live production switcher
- Record direct to USB flash disks in H.264
- Direct streaming via Ethernet to YouTube Live, Facebook, Twitch and many more
- Includes a professional multiview that lets you see all 4 video inputs, plus preview and program on a single HDMI television or monitor
- Front panel control
- Easy to use design
- 4 standards converted HDMI inputs
- USB webcam out & HDMI out
- Includes free ATEM Software Control Panel
- DVE for Picture in Picture, Transitions and Effects
- Includes the upstream ATEM Advanced Chroma Key plus an additional downstream linear key

Introducing low cost, multi camera, live production with advanced broadcast features

ATEM Mini switchers make it easy to create professional multi camera productions for live streaming to YouTube and innovative business presentations using Skype or Zoom. Simply connect ATEM Mini and you can switch live between 4 high quality video camera inputs for dramatically better quality images. Or connect a computer for PowerPoint slides or gaming consoles. The built in DVE allows exciting picture in picture effects, perfect for commentary. There are loads of video effects too. All ATEM Mini models have USB that works like a webcam so you can use any streaming software while the ATEM Mini Pro model adds live streaming and recording to USB disks. ATEM Mini even has secret broadcast features built in so it can do high end work.

Faster Video Production Plus Live Streaming

Live production is the fastest way to complete a finished program, plus you can stream it to a live global audience via YouTube at the same time. The USB webcam output of ATEM Mini connects to any computer and looks just like a built in webcam, so all streaming software for social media platforms work. With up to 4 HDMI inputs you can set up multiple camera angles such as wide shots along with independent close ups of each person in the performance. Or you can connect to a computer with a PowerPoint slide show, video clip playback, websites or gaming consoles. All switching is in real time so you can live stream to any social media platform such as YouTube, Facebook, TwitchTV and many more.

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. On the ATEM Mini Pro model 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 multiview. On the rear panel there are HDMI connections for cameras or computers, extra microphone inputs, USB for webcam out plus an HDMI "aux" output for program video.

ATEM Mini Pro

This model includes all the features found in ATEM Mini, plus more. You get recording direct to USB flash disks in H.264 plus direct streaming via the Ethernet to YouTube Live and more. There's also a multiview with 4 cameras, media, preview and program plus status of recording, streaming and audio.

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 1 to 4 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. The DVE is perfect for picture in picture effects and you can instantly set up different picture positions. There is even a still store for titles and graphics accessible via external software control.

Stream Live Interviews

ATEM Mini is perfect 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. You can record via the HDMI output or live stream using Open Broadcaster software.

Business Presentations via Skype

Get dramatically better business presentations on Skype because ATEM Mini makes Skype see it as a webcam, so you can select it in the Skype 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 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 Skype or Zoom and even post recordings online 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 Panel to load titles and perform video effects.

Connect up to 4 Independent Cameras

With 4 independent HDMI inputs, you can connect up to 4 high quality video cameras. Video cameras with HDMI outputs are dramatically better quality than simple webcams as they use higher quality lenses and have better low light sensitivity. All video sources will reâ€‘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 closeâ€‘ups. Imagine taking advantage of the low light capability of better cameras for theater production, weddings, school concerts and music videos.

Outputs to HDMI Video and USB Webcam

To ensure maximum compatibility, ATEM Mini features a USB connection that operates as a simple webcam source. That means you can plug in and instantly 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 1080HD quality. Choose any software you like, such as Open Broadcaster for live streaming, or Skype for Powerpoint presentations. ATEM Mini works with software and platforms such as Open Broadcaster, XSplit Broadcaster, YouTube Live, Facebook Live, Skype, Zoom, Twitch, Periscope, Livestream, Wirecast and more.

Live Stream via Ethernet on ATEM Mini Pro

The ATEM Mini Pro model has a built in hardware streaming engine for live streaming via its built in Ethernet connection. That means you can live stream to YouTube, Facebook and Twitch in better quality, without dropped frames and with much simpler settings. Just select the streaming service and enter the streaming key. There are palettes in ATEM Software Control for streaming setup and status, plus streaming status is also displayed in the multiview. Streaming status is easy to understand as the data rate indicator shows internet speed required for the video format you're using. If you're technically minded, you can even hack the detailed streaming profiles in the XML preference file and load new services.

Record Direct to USB Flash Disks with ATEM Mini Pro

The ATEM Mini Pro model also supports direct recording of your streaming data to USB flash disks. That means you get very long recordings in the same H.264 video files with AAC audio that you streamed, so you can direct upload to any online video site, such as YouTube and Vimeo. ATEM Mini Pro supports multiple disks when used with 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 multiview. You can even trigger recording on external Blackmagic Pocket Cinema Cameras.

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 effects 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, 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. ATEM Mini features a full Fairlight audio mixer and all HDMI audio inputs and both microphone inputs are all connected separately to the audio mixer so you can live mix from all audio sources.

Automatically Converts Any HDMI Input Format

Each of the 4 HDMI inputs feature their own dedicated standards converter. That means ATEM Mini will automatically convert 1080p, 1080i and 720p sources to the video standard of the switcher. By default the switcher will set its video format automatically, however you can also set the switcher to a specific video standard you need. The HDMI output is a true "aux" output so you can clean switch each HDMI input or program to this output. You can even "direct" switch input 1 to the HDMI output for low latency eSport productions. If you're using program/preview switching, the HDMI out can be selected to preview, or on the ATEM Mini Pro model, it can be

selected to display a full multiview.

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.

- 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.

Built-in Graphics with Photoshop Plug-In

The built in "media pool" allows the loading of up to 20 separate broadcast quality RGBA graphics for titles, opening plates and logos. The media player is used to output the selected image so it appears as an extra internal video source for use in graphics and titles. You can even use still frames for complex effects such as graphic wipes. ATEM Mini can even grab stills from the video output and add them to the internal media pool. Graphics can be loaded via ATEM Software Control or downloaded directly from Photoshop using the ATEM Photoshop plug-in. The Photoshop Plug-in is perfect for graphics that change often, such as scoreboards, as you can download directly into the media player.

Includes New ATEM Advanced Chroma Key

For news or on-set presentation work, ATEM Mini is perfect as it has an upstream ATEM Advanced Chroma Key plus an additional downstream linear keyer. 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. The keyer can also be used for pattern and DVE keying. You can even use it for title overlays by creating graphics with a green or blue background and the keyer will knock out the green and make the background transparent.

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 ATEM Mini Pro 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. The ATEM Mini Pro model includes a professional multiview that lets you see all 4 video inputs, plus preview and program on a single HDMI television or monitor. Simply select M/V on the front panel video output control buttons to select multiview. 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. You can also see the media player so you know what graphic is selected. Plus multiview even includes status for recording, streaming and the Fairlight 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 a total of 12 channels 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.

Use Ethernet Control for Wireless Internet Streaming

ATEM Software Control connects to ATEM Mini via USB or Ethernet, however the benefit of Ethernet is you can use it to share your computer's internet connection for streaming on the ATEM Mini Pro model. Simply connect ATEM Mini Pro via Ethernet and set your computer to share its internet. Using Ethernet is easy, and when launching the software, just select the ATEM Mini model. If you are streaming on ATEM Mini Pro, also set your computer to share its internet. Now you get both control and streaming via the single Ethernet cable. This provides amazing mobility as you can connect your computer to the internet using wireless connections such as WiFi or even 4G and 5G tethered phones.

Control and Colour Balance Cameras

For a more broadcast style workflow, you can remote control your cameras from ATEM Mini. Blackmagic Pocket Cinema Camera 4K and 6K models 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 HyperDeck Recorder

The HDMI program output is perfect for connecting ATEM Mini to an external recorder or monitor. ATEM Mini supports 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 on the more advanced ATEM Mini Pro model you can generate multiple formats by recording from the HDMI program output in ProRes while simultaneously recording the H.264 video stream to a USB flash disk.

In the box:

- ATEM Mini Pro
- External 12V DC power supply with international socket adapters

