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ATEM Television Studio ATEM Television Studio HD is the first production switcher designed for both broadcasters and AV professionals. It includes 4 SDI and 4 HDMI inputs with re-sync on all inputs so you can use it with broadcast or consumer cameras. ATEM Television Studio HD is packed with high end features and is perfect for live production, episodic television programming, web shows, AV or even live coverage of gaming competitions! Simply plug in cameras, game consoles or computers and start switching live! Connections Total Video Inputs : 8 Total Outputs : 8 Total Outputs : 1 SDI Rates : 270Mb, 1.5G, 3G. Total Audio Inputs : 2 x XLR. Total Audio Outputs : None, embedded audio only. Timecode Connection : None. SDI Video Inputs : 4 x 10-bit SD/HD switchable. 2 channel embedded audio. HDMI Video Inputs : 4 x HDMI type A, 10-bit SD/HD switchable. 2 channel embedded audio. Reference Inputs : Tri-Sync or Black Burst. Video Input Re-Sync : On all 8 inputs. SDI Program Outputs : 5 x 10-bit SD/HD switchable. HDMI Program Outputs : None. SDI Audio Outputs : 2 Ch embedded into SDI output. Computer Outputs : None. Standards SD Video Standards : 525i59.94 NTSC 4:3 or 16:9, 625i50 PAL 4:3 or 16:9 HD Video Standards : 720p50, 720p59.94, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p50, 1080p59.94, 1080i50, 1080i59.94 Ultra HD Video Standards : None. SDI Compliance : SMPTE 259M, 292M and 424M. Video Sampling : 4:2:2 10-bit Color Precision : 4:2:2 10-bit Color Space : 4:2:2 YUV HDMI Input Resolutions for Computers : 1280 x 800, 59.94Hz, 720 x 576i 50Hz, 1280 x 720p, 59.94Hz and 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94 and 1920 x 1080i 50 and 59.94Hz 60Hz. Colourspace Conversion : Hardware based real time. Processing Delay : 6 Lines. Audio Mixer : 10 input x 2 channel mixer.Selectable On/Off/Audio-Follow-Level and Peak metering.Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone. Product Specifics Upstream Keyers : 1 Downstream Keyers : 2 Chroma Keyers : 1 Linear/Luma Keyers : 3 Talkback Support : Built in, uses aviation headset. Mix Minus Support : Yes, on 4 camera PGM outputs. Transition Keyer (Stinger/DVE) : DVE only. Total Number of Layers : 5 Pattern Generators : 2 Color Generators : 2 DVE with 3-D Borders & Drop Shadow : 1 Interface : Minimum monitor resolution of 1366 x 768. Number of Windows : 1 x 10 Routable Windows : 8 Routable and 2 fixed for Program and Preview. Tally : Red for program and green for preview indication. Tally Output : Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.) Windows Source Labels : Yes Multi View Monitoring Multi View Monitoring : 1 x 10 Views. Multi View Video Standard : HD Media Player Media Players : 2, with non volatile flash memory. Channels : Fill and key for each Media Player. Media Pool Still Image Capacity : 20 with fill and key. Media Pool Clip Capacity : None. Media Player Clip Length in 1080 HD : None. Media Player Clip Length in Ultra HD : None. Media Pool Still Image Format : PNG, TGA, BMP, GIF, JPEG and TIFF. Media Pool Video File Format : None. Media Pool Audio File Format : None. Control Control Panel : Built in control panel. Software control panel included. Supports optional broadcast panel. Control Panel Connection : Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network. Also used for updating the software. Control Panel Compatibility : Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast Panel and ATEM 2 M/E Broadcast Panel. Control Panel Included : ATEM Software Control Panel included free for Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later and Windows 8.1 64-bit or Windows 10 64-bit. Software Software Updates : Using USB connection directly connected to Mac OS X or Windows computers. Includes ATEM Switcher Utility. Configuration : Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Switcher Utility connected via USB to chassis. Operating Systems Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later.Windows 8.1 or Windows 10. Power Requirements Power Supply : 1 x internal 110 - 240V AC Power Usage: 40W Environmental Specifications Operating Temperature : 5° C to 40° C (41° - 104°F) Storage Temperature : -10° to 60° C (14° to 140° F) Relative Humidity : 0% to 90% non-condensing What's Included ATEM Television Studio HDSD card with software and manual Warranty 12 Months Limited Manufacturer's Warranty. Connections Total Video Inputs 8 Total Outputs 2 Total Audio Inputs 2 x 3.5mm stereo mini jack Total Audio Outputs 1 x 3.5mm stereo mini jack Timecode Connection None HDMI Video Inputs 8 x HDMI type A, 10-bit HD switchable. 2 channel embedded audio. Video Input Re-Sync On all 8 HDMI inputs. Frame Rate and Format Converters On all 8 HDMI inputs. HDMI Program Outputs 2 Ethernet Ethernet supports 10/100/1000 BaseT for live streaming, software control, software updates and direct or network panel connection. Computer Interface 2 x USB Type-C 3.1 Gen 1 for external drive recording, webcam out, software control, software updates and panel connection. Standards HD Video Input Standards 720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 1080i50, 1080i59.94, 1080i60 HD Video Output Standards 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 Ultra HD Video Standards None Video Sampling 4:2:2 YUV Colour Precision 10-bit Colour Space Rec 709 HDMI Input Resolutions from Computers 1280 x 720p 50Hz, 59.94Hz and 60Hz 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60Hz 1920 x 1080i 50, 59.94Hz and 60Hz Colourspace Conversion Hardware based real time. Product Specifics Upstream Keyers 4 Downstream Keyers 2 Advanced Chroma Keyers Up to 4 Linear/Luma Keyers Up to 4 Transition Keyer DVE only. Total Number of Layers 5 Pattern Generators 2 DVE With 3-D Borders and Drop Shadow 2 Interface Minimum monitor resolution of 1366 x 768. Audio Audio Mixer 1 1 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel. Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ, Master gain control. Analog Input Unbalanced stereo Analog Input Delay Up to 8 frames Input Impedance 1.8k Max Input Level +6dBV Mic Plug In Power Available on both 3.5mm mini jack connections. Streaming Direct Streaming ATEM Mini Extreme supports direct live streaming using Real Time Messaging Protocol (RTMP) over ethernet or a shared mobile internet connection over USB-C. Recording Direct Recording Video and Audio USB-C 3.1 Gen 1 expansion port can record directly to external media. Video Recording 1 x Program out to H.264 .mp4 file at the Streaming quality setting and at the ATEM video standard with AAC audio. Media Format Supports media formatted ExFAT (Windows/Mac) or HFS+ (Mac) file system. Multi View Monitoring Multi View Monitoring Configurable to 16, 13, 10, 7 or 4 up views including Program, Preview, 8 HDMI inputs, SuperSource, Clean Feed, Media Player, Streaming Status, Recording Status and Audio Meters. Multi View Video Standard HD Media Player Media Players 2 Channels Fill and key for each Media Player. Media Pool Still Image Capacity 20 with fill and key. Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF. Control Control Panel Built in control panel. Software control panel with camera control included. Supports optional hardware panel. Control Panel Connection Ethernet supports 10/100/1000 BaseT. Ethernet used for direct connection between panel and chassis or via network. ATEM Mini Extreme also supports direct USB-C connection. Ethernet or USB-C used for updating the software. Control Panel Compatibility Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Advanced Panel, ATEM 2 M/E Advanced Panel and ATEM 4 M/E Advanced Panel. ATEM Mini Extreme can be configured using Blackmagic Design's Hardware Panel Setup utility to route sources to destinations using Videohub Smart Control Pro and Videohub Master Control Pro. Control Panel Included ATEM Software Control Panel included free for Mac 10.14 Mojave, Mac 10.15 Catalina, Mac 11 Big Sur or later and Windows 10 64 bit only. Software Software Updates Using USB or Ethernet connection directly connected to Mac OS X or Windows computers. Includes ATEM Switcher Utility. Configuration Set via ATEM Software Control Panel, excluding ATEM chassis IP address which is set via the ATEM Switcher Utility connected via USB to chassis. Operating Systems Mac 10.15 Catalina, Mac 11.1 Big Sur or later, Windows 10, 64-bit. Power Requirements Power Supply 1 x External 12V power supply. Power Usage 36W Physical Specifications Dimensions (W x H x D) 370mm x 39.6mm x 136.6mm Environmental Specifications Operating Temperature 5° C to 40° C (41° - 104° F) Storage Temperature -10° to 60° C (14° to 140° F) Relative Humidity 0% to 90% non-condensing Warranty 12 Months Limited Manufacturer's Warranty. Workflow: Create professional, broadcast quality programs and stream them live! ATEM Mini makes it easy to create professional multi camera productions because it's portable enough to do a wide range of work, but it's still a powerful broadcast grade switcher! Plus ATEM Mini is easy to set up! Simply connect some cameras and you're ready to start your first live stream! You can use features such as the DVE for exciting picture in picture effects which are perfect for live commentary. There are loads of other video effects too. To live stream, ATEM Mini models have a USB output that works like a webcam for streaming software, or ATEM Mini Extreme can live stream direct via Ethernet. Separate mic inputs make interviews and presentations easy! Create and stream your own interview talkshow! ATEM Mini is perfect for small streaming programs as it's small enough to allow the presenter to do the switching! With 4 HDMI inputs, you can connect 3 cameras for wide, medium and close up shots, along with a HyperDeck Studio Mini to playback pre-recorded clips. The DVE lets you create amazing picture in picture effects complete with drop shadows, coloured borders and more. Picture in picture effects are perfect when you want to show a reaction from the guest, you're interviewing! You can even add lower third graphics and logos to give your program a high end broadcast look. The streaming can be done on a separate computer with streaming software or direct to Ethernet on ATEM Mini Extreme models. Live boardroom presentations via Skype ATEM Mini lets you stream television broadcast quality presentations from the boardroom to employees and investors all over the world via Skype! The intuitive front panel controls make it easy for anyone to create a professional looking switched program from multiple HDMI cameras and a laptop computer running PowerPoint. That's the perfect for use in conference rooms because you don't have to be a video expert or need a specialized crew to stream broadcast grade presentations via Skype. There's even a built in DVE which can be used to add a shot of the presenter over a PowerPoint slide. ATEM Mini connects to a computer via USB and Skype will see it as a simple but high quality web camera! Stream eSports and gaming competitions! Live streaming eSports and gaming competitions! Live streaming eSports and gaming competitions is an exciting way to connect with other gamers. ATEM Mini lets you turn those competitions into professional quality streaming shows that you can publish via platforms such as YouTube Live and Twitch. You can connect multiple game consoles, plus a few cameras, then switch between sources with the touch of a button. ATEM Mini features a DVE for adding player views over game screens, plus there's a keyer for removing green screens. Imagine superimposing yourself over the game! There's also a zero latency direct input connection for game consoles, and mic inputs for commentators or player dialog. Kickstarter Video Presentations You've got a great idea, now let ATEM Mini help you get funding! There's no better way to entice potential investors than with a professional video presentation to showcase your new product. With 4 HDMI inputs, ATEM Mini is big enough for multiple cameras to cover your pitch, plus a close up of your product plus a computer with presentation slides. You can also use the keyers to add callouts or graphics to highlight features of your product. Best of all, because it's so easy to use, ATEM Mini makes it possible to create broadcast quality videos by yourself and on a tight budget! So when you stream your presentations live to investors via Skype or Zoom or share it on sites such as Kickstarter! Broadcast worship services via the internet! ATEM Mini makes it possible for congregations of all sizes to spread their message by recording broadcast quality television programs. That's because it's the first live production switcher that a volunteer from the congregation can use! It's affordable so even the smallest congregation can use video to engage with their community. Simply connect HDMI cameras for shots of the minister and congregation, then connect a mic for the minister and you are ready to start recording. You don't have to have a big budget or a huge staff! Although you can reach a global audience by streaming and uploading the video, you can also set up previous sermons for playback on a projector at other times. Stream Lectures and Seminars ATEM Mini is ideal for streaming lectures from schools and universities to students around the world. The front panel has all the controls you need so even the lecturer can cut between a camera and a slide show computer. When you need to incorporate content such as video, slides or to show websites or coding, simply plug a computer into the ATEM Mini HDMI input. Because all HDMI inputs on ATEM Mini have standards conversion, it doesn't matter what video standard the computer is using. Just plug it in! The keyers allow school logos, teacher names, or other graphics to be overlaid on top of the image. The future of education is via online video content and ATEM Mini lets you start right now! ATEM Mini lets you create big league looking programs from your own sporting events! Whether you're playing table tennis, bowling or baseball, ATEM Mini lets you connect multiple HDMI cameras so you can capture the match from multiple angles and see all of the action. Add an HDMI laptop with the free ATEM plugin for Photoshop and you'll be able to use video graphics templates and send them direct into the switcher from Photoshop. Then you can use the built in downstream keyer to overlay the graphics on top of the game, just like a professional sports broadcast! With ATEM Mini, it's easy for you and your friends to create broadcast quality live sports programming and stream online! Create Music Videos Live! Now it's easy for bands to create music videos and to live stream them live! ATEM Mini makes it easy to create wild looks by blending in crazy animated sources such as the iTunes visualizer. Plus Blackmagic Pocket Cinema Cameras include colour correctors so you can get dramatic and cinematic visual styles! ATEM Mini makes it easy to record music videos while also cultivating your band's fanbase by streaming your live concerts to YouTube Live or Facebook. Software Control: The world's most advanced live production switcher control software! ATEM Mini can be operated from the front panel, or you can control it using the included free ATEM Software Control for Mac or Windows. ATEM Software Control gives you even more control and creative options! You can switch video sources live, load the media pool with graphics, use transitions and keys, change switcher settings and mix audio. For larger live productions, you can even run multiple copies of the software so that more than one person can work on the show at the same time! Elegant and Intuitive Interface ATEM Software Control features an interface that's been specifically designed for speed and accuracy. It features separate pages that make it easy to find the controls you need for each of the switcher's major functions such as control, audio, macros, media and deck control. The switcher page features a familiar layout with buttons for sources, transitions, keyers and more. In addition the switcher page also has palettes that let you adjust transitions, keys and the media player. The media page lets you manage all of your graphic files and upload them to the switcher, while the audio page lets you control the built in multi channel Fairlight audio mixer. Adjust switcher settings, make live cuts, adjust keys, apply transitions, overlay graphics and more. Upload 20 RGBA still image graphic files. Graphics can be used for titles, bugs, lower thirds and more! Professional 12 channel Fairlight audio mixer with faders, 6 band EQ, compressor, limiter and much more! Control and colour correct cameras via the HDMI connection to Blackmagic Pocket Cinema Camera 4K and 6K. Full virtual switcher control panel! You get the most efficient live production workflow with ATEM! The program bus is always live and allows direct source switching, so when you select a source it will immediately go on air. You can also take advantage of the advanced preview style switching is selected, preview transition allows complicated multi layer green screen keys to be rehearsed before using them on air! Preview video can be seen on a monitor when the HDMI video out is set to preview. Using preview transition is the best way to ensure your transition is perfect before going on air! When your program is starting, has a commercial break, or is ending, use the fade to black (FTB) button to fade all layers up or down at exactly the same rate. Fade to black is the last layer of the switcher so you can be sure every video and graphic layer, and every source, is faded cleanly together and in perfect sync! ATEM Mini can provide full control of your cameras right from the ATEM Software Control app! Simply connect a Blackmagic Pocket Cinema Camera to your ATEM Mini to get full camera control! All control communication is via HDMI so there's no setup! Control the tally light, white balance, ISO and shutter as well as the iris, focus and zoom on supported lenses. There's even a DaVinci primary colour corrector built into the camera, so you can go well beyond simple camera colour balance as you can innovate with digital film looks in your live production. Software control allows a traditional CCU layout or a DaVinci colour corrector layout. For advanced use you can add an ATEM Camera Control Panel. ATEM Mini features a media player that can be used to play back files stored in the media pool. The media pool stores your files on flash storage so they are saved in the switcher, even when the power is turned off! You can use PNG, TGA, BMP, GIF, JPEG and TIFF files. Files with alpha channels can be used as bugs, lower thirds, titles and more! ATEM Software Control lets you drag and drop up to 20 RGBA graphic files into the media pool on ATEM Mini. Then the media player allows graphics to appear as a live video source! You can use the included Photoshop plug-in to transfer graphics directly from Photoshop to the switcher, which is perfect for getting custom graphics on air quickly! Professional multi channel audio mixer! ATEM Software Control includes a built in multi channel Fairlight audio mixer that lets you independently adjust the level and balance from all of your audio inputs. The internal audio mixer features up to 12 channels of audio from the 4 HDMI and 2 microphone inputs. Each of the 12 inputs has independent 6 band parametric EQ, compressor, limiter, expander and noise gate as well as full panning. All inputs are metered so you can always see your source's levels. There are buttons to turn audio on for each source in the program and for audio to follow video (AFV) when you switch between sources. There's also a master fader for adjusting the final mixed program audio that is output to video. Good equalization is the secret to good broadcast sound! The internal Fairlight audio mixer features 6-band parametric EQ on every single input channel. You can adjust 6 separate bands of frequencies to boost, fatten or thin the sound. This means mic inputs can be adjusted to be clear and easy to understand while other inputs can remain untouched. The internal Fairlight audio mixer also features a high quality compressor, limiter, expander and noise gate on every audio input channel. The compressor and limiter stop mic levels from excessive volume and distortion. Noise gate eliminates background noise in mics. Dynamics really make it easy to place different channels in an overall audio mix! Quickly customize switcher settings for your program! Setting up for new jobs is easy with ATEM Software Control! Switcher settings are logically organized so you can change them quickly. By default the ATEM Mini will automatically select its video standard based on the device plugged into input 1, however you can also change the switcher video standard to any specific 720 HD and 1080 HD video standard. You can also customize input labels that will be used to track sources when used on external hardware panels or ATEM Software Control. Even the multiview can be customized including program/preview arrangement, audio meters and more! You can even control HyperDecks for remote trigger and use them for motion media playback! ATEM Mini lets you quickly save your switcher set up at any time which means you can recall it instantly! The switcher state is saved as an XML file so you can even edit the files to make changes. If you start to grow, you can use the XML setups from one ATEM Mini in other models of ATEM switcher, and you could even use the ATEM Mini XML setup file in the biggest ATEM Constellation 8K switcher. It all just works! You can save the switcher state any time you like, or you can save the state called the sync bin. It works by showing only clips that are synced to the timeline and as you scroll the timeline, the available clips will be displayed for you. As all ISO clips have timecode, the DaVinci Resolve sync bin will take care of keeping all shots scrolling together in perfect sync. Clips are displayed in a multiview so you can select the shot you want by clicking on its view. The in point is automatically set and for the out point, just scroll along and then press O. Now select source overwrite to add the shot into the timeline. Sync bin makes adding cutaways easy as it works just like a switcher! Includes ATEM Media Pool Images When recording inputs, media pool graphics are also saved so your titles and stills are included in the edit when the timeline is opened. Only titles used in your live production will be saved, and they will be placed on layer two of the timeline if they're keyed titles, or layer one if media pool graphics were used as a video source. You can remove, change and localize titles because they are not baked into the edit! Because ATEM Mini only supports still frame graphics in its media pool, you can use the edit to change these still frames to animated titles! You can even update titles with new designs so you can renew your older work to make it look more modern. Or add 3D titles using Fusion! Relink to Blackmagic RAW Camera Files If you're using Blackmagic Pocket Cinema Camera 4K or 6K models, you can record Blackmagic RAW in camera and these files will also be in sync because ATEM Mini ISO models will upload metadata and timecode sync to the cameras via the HDMI connections. This means you can change DaVinci Resolve to use the Blackmagic RAW files instead of the H.264 ISO files for higher quality. Blackmagic RAW files are film gamma so you can add creative colour correction for cinematic looks. Plus because the files are 4K or 6K, you can change the DaVinci Resolve project to Ultra HD and get an Ultra HD edit from an HD ATEM Mini ISO switcher! Any non camera input, such as a computer, will be upscalled automatically! Create Ultra HD Programs with Blackmagic RAW Blackmagic RAW allows a whole new world of creativity because you can stream in HD, but then deliver work in Ultra HD with incredible creative and cinematic colour correction. Blackmagic Pocket Cinema Cameras feature high resolution sensors and amazing low light performance. This means the Blackmagic RAW files will capture the greater range of the sensor, while the output of the camera is connected to your ATEM Mini for the live stream. Higher resolution also means you have added flexibility to reframe and zoom shots, and you won't lose image quality because the files have so much extra detail. DaVinci Resolve will take care of all the work for you and let you deliver Ultra HD masters! Add DaVinci Colour Correction DaVinci Resolve is Hollywood's most popular professional colour corrector and is used on more feature films than any other solution. The primary colour corrector has familiar colour wheels that let you balance the colours in the dark, midrange and highlight parts of your images. You can even add some extra contrast by setting specific shadow and highlight points. DaVinci Resolve has other controls that extend creativity such as highlight, pivot, colour boost and more. If a camera moved when you needed it, then you can add stabilization! Plus secondary grading allows you to change any specific colour. There's also curve grading, power windows with tracking, multiple corrector nodes and more! Advanced Panel: Super compact professional hardware control panel with built in LCD ATEM Mini might be low cost but it's not a low end switcher! The ATEM 1 M/E Advanced Panel is a true broadcast quality hardware panel that is a faster and more professional way to use your ATEM Mini. Featuring the latest technology, you get a built in LCD for menus, high quality buttons with customizable illumination colour, a professional joystick for the DVE plus a smooth, weighted T-bar fader for manually controlling transitions. The buttons also have LCD screens allowing custom labels to display under each input button! The compact size and durable design of the ATEM 1 M/E Advanced Panel fits in a standard equipment rack, making it perfect for portable broadcast vans and fly away kits. Switch cameras to air instantly! ATEM Mini has been designed to give you the most advanced live switching workflow. Internally, ATEM Mini has separate program and preview buses that you can use to quickly and accurately switch sources. ATEM Mini lets you see your preview bus selection by selecting preview on the video output, or using one of the views on the ATEM Mini Pro or Extreme model's multiview output. Then all you need to do is make selections on the preview bus of the advanced panel, which will appear on your preview screen, allowing you to see your source before it goes on air. This means you can bring the source online by pressing cut or auto! You can also switch sources on the program bus if you need them to go live immediately! Select and customize transitions Get total control over your transitions with a dedicated hardware button for each transition type! When selecting transition types, the LCD screen will display the options for that transition, so you can change its parameters without navigating through complex menus. It's all instantly available! That gives you multiple ways to switch. Simply select a new source on the preview bus, then press CUT for a cut transition, or AUTO to use the selected transitions such as mix, dip, wipe or DVE! You can even cut directly on the program bus. With ATEM 1 M/E Advanced Panel you get all the controls you need to access all transition types fast. Mix, dip, wipe, DVE and more! ATEM gives you a huge range of transition styles! Mix transition will smoothly blend between sources just like an NLE cross dissolve. Standard SMPTE wipes are included and wipes can have edge softening for smooth dreaemy transitions that are more exciting than simple cross dissolves. Dip transitions create a dip to colour effect, however because you can dip to any video source, you could create really innovative effects! DVE transitions use the DVE to create crazy moves where the whole foreground image moves! Plus you can combine the DVE and a still image from the media pool to create graphic wipes! The T-bar fader even lets you manually position the transition for total control! Transform wipes into exciting effects! Power up your wipe transitions by accessing parameters to transform them into exciting effects. While you can select the wipe pattern directly on the LCD, you can also add lots of customization to suit your production style. You can adjust parameters such as symmetry and softness, but there are also adjustments for coloured borders with variable width and softness, as well as the position of the centre of the wipe. You can even use the dedicated joystick to set precise wipe pattern positioning! Amazing digital video effects The ATEM hardware panel is perfect for positioning the DVE for custom picture in picture effects. The built in joystick allows the position to be precisely set and rotating the knob will change its size. You can use the knob and the sync bin to adjust the DVE position, size and shape. The DVE features such as lighting and drop shadows are also available. You can also set up the DVE to fly graphics into the program bus. The program bus can be used to fly graphics into the program bus and to fly graphics into the program bus. You can select any loaded still by scrolling through the list of media pool images, which are listed in the order of the original file name of each image. This means you can quickly change stills and titles right from the same panel you are working from, eliminating the need to change control panels just to change a title. Integrate with third party audio panels All ATEM switchers are compatible with Mackie™ protocol USB control panels for live audio mixing! Simply connect a third party USB fader panel to your Mac or PC computer to get real time fader control of every audio channel. As you adjust levels on the panel the virtual software faders move in sync with you. You can even use the mouse to adjust levels on the ATEM Software Control page and the flying faders on the external panel will track your movement. Combining a fader panel with the built in mixer gives you the highest quality audio mixing experience. Trigger macros at the touch of a button! A hardware panel is perfect for macros because it's much faster and you can view pre programmed macros and record and play back macros at the push of a button. This means that you don't need to use a computer to work with macros because you can trigger them from the same hardware panel you are switching from. If you edit or modify a macro the change will appear on all connected hardware and software control panels because the macros are stored inside the ATEM Mini itself. But the panel also includes dedicated macro buttons so you can set up different macros under each macro button and then trigger them instantly at the push of a button! Control your ATEM Mini from anywhere in the world! Because ATEM Mini includes a standard ethernet connection, you can use this connection to control it remotely from long distances away on Mac or Windows computers running ATEM Software Control. ATEM Software Control can use the USB or Ethernet connection to ATEM Mini, so while the USB is easy, Ethernet gives you unlimited distance between the switcher and the control panel. You can also connect a range of hardware and software control panels in any combination, all working together in parallel and at the same time. You can even connect an ATEM Mini to your network and control your switcher from anywhere in the world or use the included SDK to develop your own solution! Remotely control four cameras, all from a single control panel! The ATEM Camera Control Panel is a professionally designed broadcast camera control unit that extends the software features in ATEM Software Control to add high quality physical hardware controls that are even nicer to use. All ATEM Mini models support camera control when used with the Blackmagic Pocket Cinema Camera 4K or 6K models for amazing professional broadcast workflows. The control panel lets a single person monitor and adjust a wide range of camera parameters such as black levels, gain, colour balance, shutter speed and more. This leaves your camera operators free to focus on more important tasks such as framing and shot composition. Plus it works with all ATEM switcher models! Works with Blackmagic Pocket Cinema Camera ATEM Mini works with the latest Blackmagic Pocket Cinema Cameras to add studio features that you can remotely control! Pocket Cinema Cameras make great studio cameras because they feature a large bright 5" viewfinder, remote camera control, tally indicators and phantom powered microphone connections. All video and control is via a simple HDMI connection that lets you connect to your ATEM Mini with a single cable! That means you can remotely control any setting in the camera plus focus, iris and zoom on supported lenses. Pocket Cinema Cameras include a DaVinci primary colour corrector so you get much more than simple CCU controls as you can also do a full colour grade in the camera! One person can control up to 4 cameras at the same time! When working on live production, it's important all of the cameras are matched with proper colour balance so that you get a consistent look as you cut and transition between the different cameras. The ATEM Camera Control Panel features 4 camera controllers in one panel, so you can control all of your ATEM Mini cameras. When used on larger switchers, you can control more cameras because it's very quick to change numbers on each control channel. Each camera controller includes a large LCD screen with soft buttons and knobs at the top of the panel, and a full set of professional controls below, so you get a very clear indication of the most important camera parameters. Scenes and Camera Controls The top section on each camera control has settings for changing camera settings, plus it lets you save and recall scene presets. Getting remote access to important camera settings is vital when you are working in conditions where the light can change during your job such as daylight, and with these settings you can quickly adjust cameras based on changes in the scene. Controls in this section include master gain, white balance, shutter speed and more! Quickly get the perfect white balance by triggering the camera's automatic white balance feature. Save and recall scene presets, perfect when you do regular work with the same conditions each day. Boost sensitivity of the sensor as conditions become darker or when more depth of field is needed. Set the shutter speed of the camera and a slower shutter speed can also boost brightness in dark conditions. Select to output colour bars for the selected camera, colour bars are very useful when setting up for a new job! Gain and Pedestal Controls The center section features independent RGB controls for adjusting the camera colour for the white and black parts of the image. Because the Blackmagic Pocket Cinema Camera 4K and 6K models have a full DaVinci Resolve primary colour corrector built in, you have amazing control over the colour in the camera. There's red, green and blue controls for adjusting blacks and whites mean you can accurately match multiple cameras, which is vital for cutting seamlessly without colour shifts. One trick experienced camera control operators use is to only adjust the red and blue channels, so you can add and remove red and blue tint without getting too far away from accurate colour! The lower section of the panel is where the most used controls are located and features a large, easy to read camera number that highlights red when the camera is on air! The main control for operating the cameras is the high quality professional joystick that's used to precisely adjust the iris when moved up and down, and the master black when the knob is rotated. This is the exact same type of control that's used on camera control units used in broadcast, so you get a true professional user interface that can be the ideal training tool for any high end live broadcast truck or studio. There's also a button to lock the CCU and indicators for network and errors. Joystick for adjusting iris and master black. Move up and down to change iris and rotate for black. To stop the iris from becoming too sensitive with different lens types, you can reduce the adjustment range. To ensure you don't accidentally bump the camera adjustment, you can lock the iris and master black control. This indicator provides feedback on the amount of master black adjustment applied to the remote camera. If you have set up a perfect colour match between all of your cameras, then you can lock all panel adjustments. Used on larger switcher models, these lights indicate status of network and SMPTE fiber camera connections. Used for switching the camera feed to the HDMI video output, so you don't have to move the joystick. Big camera number display shows what camera is assigned to each channel and turns red when on air! Flashes tally light on the camera to get the attention of the camera operator that you need to talk to them. Works seamlessly with all ATEM control panels! Adding the ATEM Camera Control Panel to your ATEM Mini is easy as all the network settings have been assigned for you, so you can simply connect an Ethernet cable direct from the ATEM Camera Control Panel to the ATEM Mini's Ethernet connection. Because Ethernet is a network, you can also use the ATEM Camera Control Panel with the ATEM 1 M/E Advanced Panel for an incredibly advanced live production setup that works the same as the biggest switchers in the world. The ATEM panels feature loop through Ethernet connections so you just loop through the panels. Plus, if you add bigger ATEM switchers later, you can keep using the ATEM, or even move the panels between switchers for different jobs. ATEM Mini is the tiny switcher that's big on features! Just because ATEM Mini is a small and low cost switcher, it doesn't mean it's small on the inside! ATEM Mini is an absolutely massive switcher for features and adding ATEM hardware panels gives you a professional workflow that's used by broadcasters worldwide. If you're doing paid work, need a professional system for education or just want the speed of a hardware panel then the ATEM Camera Control Panel is well worth the investment. The ATEM Camera Control is incredibly fast to use as it features traditional CCU controls so you get the benefit of years of broadcast experience. Now you can get the same workflow that broadcasters use with ATEM Mini and Blackmagic Pocket Cinema Cameras blackmagic atem mini price, how to use blackmagic atem mini, blackmagic atem price, blackmagic atem mini pro price

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