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Atem production studio 4k

ATEM Production Studio 4K lets you connect up to 8 SD, HD or Ultra HD 4K video cameras, disk recorders and computers to do true broadcast quality work. You get all the features you expect from a professional switcher including chroma key, transitions, media pool, downstream keyers, audio mixer, multi view and the world's first 6G-SDI and HDMI 4K video connections. Advanced Live Production Take your live production beyond broadcast quality! ATEM Production Studio 4K has all the features you need for the most innovative live concerts, sporting events, theater productions, conferences and more! When you're doing live events with super large high resolution screens, then simply switch your ATEM Production Studio 4K to Ultra HD for incredible quality. Many live events now use massive high resolution LED screens and projectors and now you can drive those screens in full resolution! Powerful Software and Hardware Control ATEM live production switchers have the widest range of control options giving you full switcher control from any laptop or desktop computer with the included ATEM software control panel for both Mac and Windows. For demanding live production environments you can add a hardware based ATEM 1 M/E or 2 M/E Broadcast Panel featuring the highest quality buttons, knobs and faders for even faster switching. You also get an SDK for custom control. Discover the control options with ATEM. Add the power of a hardware control panel to your ATEM With the addition of a ATEM Broadcast Panel to your ATEM switchers nothing will beat a dedicated hardware control panel when you are switching complex live performances! Made from the highest quality components, the ATEM 1 M/E and 2 M/E Broadcast Panel are designed for extreme speed, incredible reliability and ease of use. There is no faster way to run live production than with a dedicated hardware control panel! For further information check out the Blackmagic Design website Total Video Inputs 8 Total Video Outputs 6 SDI Rates 270Mb, 1.5G, 3G, 6G. Total Audio Inputs 2 x XLR, 2 x RCA. Total Audio Outputs 2 x XLR Program. Timecode Connection None SDI Video Inputs 4 x 10-bit SD/HD/Ultra HD 4K switchable. 2 channel embedded audio. HDMI Video Inputs 4 x HDMI type A, 10-bit SD/HD/Ultra HD 4K switchable. 2 channel embedded audio. SDI Audio Outputs 2 channel embedded into SDI output. Reference Input Tri-Sync or Black Burst. Video Input Re-Sync On all 8 inputs. SDI Program Outputs 1 x 10-bit SD/HD/Ultra HD 4K switchable. HDMI Program Outputs 1 x HDMI type A, 10-bit SD/HD/Ultra HD 4K switchable. Down Converted SDI Program Outputs 1 x 10-bit HD (Ultra HD 4K to HD). SDI Aux. Output 1 Quantity of Multi Views 1 Outputs per Multi View 1 x HD-SDI and 1 x HDMI. Control Panel Connection Ethernet supports 10/100/1000 BaseT. Allows direct connection between panel and chassis, or via network. SD Video Standards 525i59.94 NTSC, 625i50 PAL HD Video Standards 720p50, 720p59.94 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p50, 1080p59.94 1080i50, 1080i59.94 Ultra HD Video Standards 2160p23.98, 2160p24, 2160p25, 2160p29.97 SDI Compliance SMPTE 259M, SMPTE 292M, SMPTE 424M. Video Sampling 4:2:2 Color Precision 10-bit Color Space REC 601, REC 709 HDMI Input Resolutions for Computers 720 x 480i 59.97Hz, 720 x 576i 50Hz,1280 x 720 59.94Hz, 1280 x 720 50Hzand 1920 x 1080 59.94Hz, 1920 x 1080 50Hz, 3840 x 2160 23.98Hz, 3840 x 2160 24Hz, 3840 x 2160 25Hz, 3840 x 2160 29.97Hz. Colorspace Conversion Hardware based real time. Processing Delay 1 line Audio Mixer 10 input x 2 channel mixer. Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. Analog outputs may be used for separate monitoring. 4K to HD Down Conversion Yes, program x 1. Upstream Keyers 1 with Chroma/Linear/Luma key. Downstream Keyers 2 Chroma Keyers 1 Talkback Support None Linear/Luma Keyers 3 Transition Keyer (Stinger/DVE) None Total Number of Layers 4 Pattern Generators 3 Color Generators 3 Color Generators 2 DVE with 3D Borders & Drop Shadow None Display interface Minimum monitor resolution of 1366 x 768. Number of Windows 1 x 10 Routable Windows 8 Tally Red for program and green for preview indication. Windows Source Labels Yes Control Panel Software or optional hardware panel. Media Players 2 Media Pool Still Image Capacity 20 with fill and key. Media Pool Clip Capacity None Media Player Clip Length in 720 HD 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 Channels Fill and key for each Media Player. Multi View Monitoring 1 x 10 Views. Multi View Video Standard HD Interface Minimum monitor resolution of 1366 x 768. Front Panel Built in LCD monitor for video and 42 LED buttons for Aux switching. 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 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. Tally Output Added via Ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included.) Operating Systems Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later, Windows 8.1 or Windows 10. Power Supply 1 x Internal 110 - 240V AC. Power Usage 60W Physical Specifications 482mm x 43mm x 147mm , 1.7kg Operating Temperature 0° to 40° C (32° to 104° F) Storage Temperature -20° to 60° C (-4° to 140° F) Relative Humidity 0% to 95% non-condensing Warranty 12 Month Limited Manufacturer's Warranty. *Specifications Correct at time of Publication ATEM Production Studio 4K Live Switcher is a live event multi camera production switcher with 8 individual Ultra HD inputs built into a 1RU chassis. Supporting NTSC/PAL/HD and Ultra HD video formats via Four Single Link 6G-SDI and Four 4K HDMI inputs, the switcher connects to a wide range of cameras and sources, delivering a single program stream in SD, HD, or Ultra HD video. All this is done live and in real time with no rendering required.The switcher features a reference video input for synchronizing the switcher to other equipment using Tri-level or Blackburst Sync. Each input also features its own frame synchronizer, which allows you to use cameras that do not feature Genlock as well as input video from computer sources. The switcher can handle inputs from all inputs at the same time.The switcher provides six video outputs that are always active. Featuring one SDI and one HDMI Program output , both of which deliver SD/HD/Ultra HD, with one Aux SD/HD/Ultra HD Output that can deliver a clean Program feed without any downstream effects, as primary outputs. The switcher also features an HD only Program output signal for monitoring on an SDI-equipped HD monitor. Multiview monitoring is also HD only over dedicated SDI or HDMI output, and Multiview allows you to view the Program, Preview, six active inputs and two graphic channels (media players) on one screen at the same time. The switcher features a built-in compliment of one Upstream and two Downstream keyers for real time effects and composites in Ultra HD, with 10-bit processing. The two downstream keyers allow you to use two graphics/logos/titles/lower thirds from up to twenty stored graphics in a wide variety of formats.A built-in two channel audio mixer handles the embedded HDMI and SDI audio from the six active video inputs as well as audio from the balanced and unbalanced analog audio inputs to provide you flexibility and creative audio options. Audio output is embedded in the SDI and HDMI stream, as well as available via balanced audio outputs. Either a Mac or PC running the included ATEM Software controls the switcher's operation and settings. For those who like the feel of a physical control panel, available ATEM Broadcast Panels, connected via the Ethernet port, also control all the features of the switcher. Illuminated front panel buttons allow you to locally select the Aux output, while a two inch LCD screen built into the front of the unit allows you to see the Aux output for instant confirmation of the correct output.VideoThe ATEM Production Studio Live 4K Switcher supports 4K Ultra HD video (3840 x 2160), which is four times the resolution of Full HD. It has eight video inputs, all of which can be active simultaneously.The switcher features four single link 6G-SDI and four HDMI 4K inputs, which allows you to connect SD/HD/Ultra HD and computer-based signal to the switcher. Although the switcher takes reference video in for sync timing so that it can interface with other post production equipment, each input has its own Frame synchronizer, which enables you to use cameras that do not have genlock capability or for input of computer sources such as Keynote or PowerPoint PresentationsThe capture video format is set by the user, and must be the same across each input, as the switcher cannot scale different input formats to match the project format.AudioThe switcher includes a built-in audio mixer that allows you to adjust the audio embedded in the SDI and HDMI signals. With 10 inputs available the 2 channel mixer can also adjust levels of both the balanced and unbalanced analog inputs.6 Video OutputsThe switcher features 3 program outputs for the final video, delivering SD/HD/Ultra HD via both a 6G-SDI port and HDMI 4K connector. The third program output is an HD-SDI only port (Ultra HD is automatically down-converted)Two Multi-view outputs allow you to see Program, Preview, the 6 live inputs and the two graphic channels on one screen at the same time. There is 1 SDI and 1 HDMI connector which feeds the Multi-view output to HD monitors.The switcher features an SDI Aux output that is capable of delivering the Program out feed with or without the downstream keyer effects in SD, HD and Ultra HD. Control of the Aux output is by front mounted panel buttons, and built-in 2-inch LCD screen for immediate confirmation of the Aux output.Multi View MonitoringMulti view allows you to view the program, preview, 6 live inputs and 2 media players side by side. You can also add custom labels that make it easy to identify each input.EffectsThe switcher features an upstream keyer that includes independent chroma, pattern, shaped and luma keying all at Ultra HD resolution with 10-bit processing. Two downstream keyers allow you to add graphics, lower thirds, titles and logos for a polished live production.Control InterfaceThe ATEM 4K switcher uses an Ethernet connection to interface with control surfaces such as the optional ATEM 1 M/E and 2 M/E Broadcast Panels.You can also control the switcher by using the included ATEM Software Control software from a Mac or Windows computer over Ethernet. You can control all production settings of the switcher as well as directly import graphics from your computer into the switcher's media pool.You set the format for each project you are working on, from SD to HD to Ultra HD, selecting resolution and frame rate. This is accomplished by using either the included software for Mac/PC, or via the ATEM 1 M/E or ATEM 2 M/E Broadcast Panel.Using the Ethernet port on the switcher allows you to connect control surfaces directly to the switcher or you can control the switcher across a network.The Switcher features a mini USB port that is used for software updates and to set the switcher's Chassis IP address, which can only be done by using a computer running the ATEM Switcher Utility connected to the switcher's USB port.Rack MountThe switcher is a single RU in height and has built-in rack mount ears, for mounting in a production road case or in a post production facility.

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