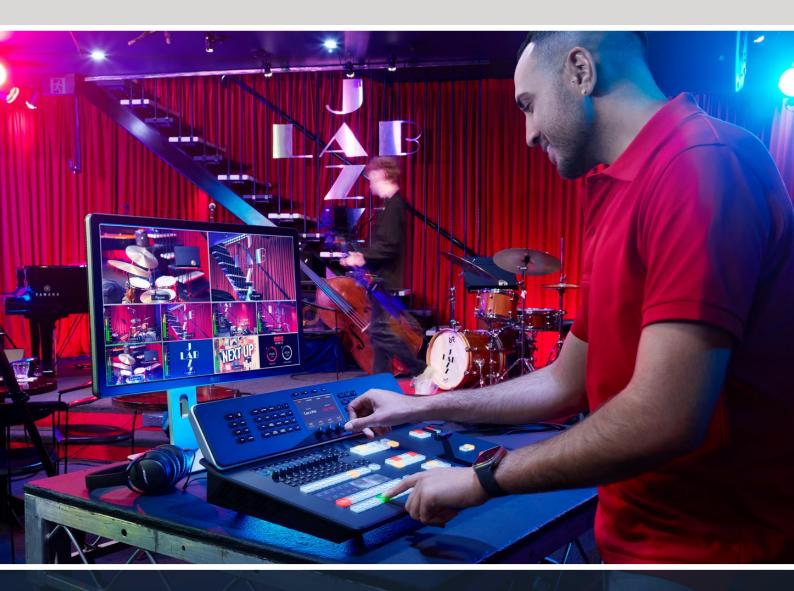


ATEM Television Studio Switchers



ATEM Television Studio HD8
ATEM Television Studio HD8 ISO



Welcome

Thank you for purchasing an ATEM Television Studio HD8 switcher for your live production work!

If you're new to live production switchers, then you're about to become involved in the most exciting part of the television industry and that's live production! There is nothing like live production and it's so easy to become addicted to the adrenaline rush of editing in real time while the live event unfolds before your eyes. It's real television the way it should be!

Previously, broadcast quality live production has always been way too high in cost for most people to afford, while affordable switchers lacked broadcast features and quality. ATEM Television Studio HD8 switchers change this letting you create the most amazing professional live production results. We hope you get years of use from your switcher and have lots of fun creating live production!

This instruction manual should contain all the information you'll need for installing your ATEM Television Studio switcher.

Please check the support page on our web site at www.blackmagicdesign.com for the latest version of software for your ATEM switcher. Simply connect your computer to the ATEM switcher and the ATEM hardware control panel via USB to update software so you get all the latest features! When downloading software, please register with your information so we can keep you updated when new software is released. We are constantly working on new features and improvements, so we would love to hear from you!

Grant Petty

CEO Blackmagic Design

Contents

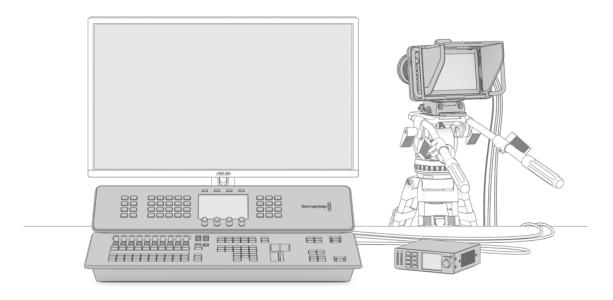
Introducing ATEM Television Studio HD8	6	ATEM Software Control	44
What is an M/E Switcher?	7	Switcher Control Panel	45
What is an A/B Direct Switcher?	8	Preferences	46
Understanding the ATEM Switcher	9	Changing Switcher Settings	48
Getting Started	9	General Settings	48
Plugging in Power	9	Audio Settings	50
Connecting the Multiview	10	Multiview Settings	52
Plugging in Sources	10	Sources	52
Plugging in Audio	11	HyperDeck Settings	53
Performing a Transition	11	Remote Settings	54
Setting Your Network	15	Auxiliary Outputs	54
Using ATEM Television Studio HD8	16	Audio Output Channel Mapping	55
Control Panel Overview	16	Saving and Restoring Switcher Settings	56
System Control	17	Switching with ATEM Software Control	58
Changing Settings	19	Using Keyboard Hot Keys	58
Home	19	Mix Effects	59
Settings	19	Transition Control and Upstream Keyers	60
Talkback and Call Buttons	21	Downstream Keyers	6
Mix Effects	23	Processing Palettes	62
Transition Control and Upstream Keyers	25	Media Players Tab	63
Downstream Keyers	27	Output Tab	63
Audio Mixer	28	Timecode Generator	66
Channel Strips	28	ATEM Media Pool	67
Mode Buttons	30	Using the Audio Mixer	69
Channel and Modifier Buttons	31	Using MADI	72
Audio Controls Workflow Guide	32	Headphones Settings	73
Selection Buttons	33	Advanced Fairlight Controls	74
Stream and Record Buttons	34	6 Band Parametric Equalizer	74
Storage Media	35	Dynamics Controls	77
Preparing Storage via a Computer	35	Using Camera Control	80
Preparing Storage Using ATEM		Camera Control Panel	8
Television Studio HD8	36	DaVinci Resolve Primary Color Corrector	85
Accessing Storage	37	Operating your ATEM Switcher	88
Cloud Sync	38	Internal Video Sources	88
Using the Multiview	40	All Transition Types	89

Keying using ATEM Switchers	105	Introducing HyperDeck Control	142
Understanding Keying	105	Controlling HyperDecks with ATEM Software Control	
Luma Key	105		146
Linear Key	106	Controlling HyperDecks with ATEM Television Studio HD8	148
Pre multiplied Key	106	Using ATEM Camera Control Panel	149
Chroma Key	109	Powering the Panel	150
Performing an Advanced Chroma Key	109		150
Pattern Key	112	Connecting the Panel to your Switcher	
DVE Key	114	Changing Network Settings	151
Performing Upstream Keyer Transitions	117	Camera Control Panel Layout	153
Performing Downstream		Controlling Cameras	158
Keyer Transitions	119	Using Tally	166
Streaming	120	Sending Tally Signals via a GPI and	100
Getting a Stream Key	120	Tally Interface	166
Direct Streaming by Sharing Your Computer Internet	121	Using a Third Party Audio Mixer Control Surface	168
Smartphone Tethering	122	Using a DaVinci Resolve Micro Panel	170
Additional Features on ISO Models	123	Updating the Software	172
Connecting Remote Sources over a Local Network Connecting Remote Sources via the Internet	123	How to update the ATEM Software	172
		Adapter Cables for Talkback and Camera Control	173
	125	5 Pin XLR Talkback Headset	175
Recording ISO Files	127	Connector Pinout Diagram	174
Benefits of Editing a Live Project	129	Developer Information	175
Editing in DaVinci Resolve	132	Blackmagic SDI Camera Control	
Using Adobe Photoshop with ATEM	133	Protocol	175
Using Macros	135	Example Protocol Packets	182
What is a Macro?	135	Blackmagic Embedded Tally Control Protocol	183
The Macros Window in ATEM Software Control	135	Help	185
Recording Macros using		Regulatory Notices	186
ATEM Television Studio HD8	140	Safety Information	187
HyperDeck Control	142	Warranty	188

Introducing ATEM Television Studio HD8

ATEM Television Studio HD8 switchers are professional broadcast grade digital production switchers capable of switching and processing a variety of video sources in live video production and broadcast environments. The switcher uses the current and familiar Mix Effects based design with software and hardware control options that provides an intuitive, fast and easy to use workflow for program/preview switching. If you're used to the older A/B direct switcher style, ATEM switchers also support A/B direct switching which makes it easy to get started.

You only need your ATEM switcher to get started as it has a built in control panel so you can switch your live production using just the switcher. However, if you want to add more control flexibility, you can also use ATEM Software Control, or even add one or more hardware control panels if you need a more advanced solution.



Setting up your ATEM Television Studio HD8 can be as simple as plugging the multiview output into a monitor, plugging in a camera and then connecting the program output to a recording deck