



# Studio HD31

## Entry-level live production switcher

With three HD-SDI / HDMI inputs, all the Studio Software features\* and a high performance system, Studio HD31 provides everything you need for a multi-camera live production.

Learn more at [livestream.com/studio/hd31](http://livestream.com/studio/hd31)



## Core Features

- |                                    |  |                           |                                |                         |
|------------------------------------|--|---------------------------|--------------------------------|-------------------------|
| <b>3x</b><br><b>HDMI<br/>HDSDI</b> | <b>2x</b><br>                              | <b>2x</b><br>             | <b>2x</b><br>                  | <b>3x</b><br><b>GFX</b> |
| 3x SDI / HDMI input                | Up to 2 screens<br>(not included)          | 2 Remote camera<br>tracks | 2 Media tracks                 | 3 GFX tracks            |
|                                    | <b>40hr</b><br>                            |                           |                                |                         |
|                                    | 40 hours of broadcast<br>quality recording | Analog audio in           | Front-panel USB /<br>headphone |                         |

Plus all the features of Livestream Studio\*

\* Limited to a maximum streaming quality of 480p and a single ISO recording

Learn more at [new.livestream.com/studio](http://new.livestream.com/studio)



HD-SDI Inputs	3
Embedded Audio Input	3 Stereo or 24 Mono Inputs
Audio Monitoring (1/8")	*
HDMI Inputs	3
HDMI Outputs	1
HD-SDI Output	1
Composite Input (BNC)	0
Composite Output (BNC)	0
S-Video Input	0
S-Video Output	0
Component Input	0
Component Output	0
Analog Audio (1/8") Input	1
Analog Audio (1/8") Output	1
Analog Audio (1/4") Input	0
Analog Audio (1/4") Output	0
AES/EBU Input	0
AES/EBU Output	0
Additional AES/EBU or Analog Audio Output	0
Tom Bihn Carry Bag	Not Available
Livestream Studio Keyboard	Included
Media Sources	7 integrated digital media sources for video & graphics playback. 2 DDRs (video clip playback with built-in transcoder), 3 GFX (graphics), 2 Color Bars / Background Color
Remote Camera	2 x Remote camera desktop video & audio over local Wifi or Ethernet network. Download Livestream Studio™ Remote Camera here.
Format Converter	Built-in broadcast quality format converter for every input with automatic format detection. Allows use of any camera and video source without matching video formats.
Built-In Multiview	On-screen full field rate multiview of all live inputs, Preview, Program Out, GFX and DDR, Audio PPM overlay with peak hold feature on all inputs and outputs. Resizable layout allowing hiding of all controls to maximize multiview screens.
External Multi-Screens	1 x Extended Screen output using HDMI*
Video Switcher / Mixer	1 x Mixer & Effects Bank (M/E) with no upstream keyer. transitions : SMPTE Wipe, Cut & Fade (Auto transition with adjustable duration in frames, manual via on-screen T-BAR or keyboard shortcuts)
Graphics Downstream Key	3 x Graphics DSK (downstream key) channels. One channel for GFX1, one channel for GFX2, one channel for GFX3. Independent or locked transition controls (fade/cut). Preview on multiview.

Graphics & Titling	Load JPG or PNG files (full transparency support with PNG files). Add text (set position/font/size/color) over any loaded image file within the GFX1 or GFX2 or GFX3
Video clip Playback	2 Media Players - Eject/Load clip. PlayPause/stop. Audio/Video Scrubber. Timecode indicator. Seek to timecode. Mark In/Mark Out. Loop. Auto-play on transition"
Recording	AVI MJPEG with uncompressed audio. Interlacing and timecode support. Full compatibility with Blackmagic Design Media Express and Adobe Premiere.
Recording Capacity	~40 hours at 1080i (Using 2 TB built in Hard Drive with recorder set to record at 100Mbps MJPEG AVI)
Live Streaming	High Quality Streaming. Integrated live streaming to Livestream or any other RTMP compatible service including Ustream, YouTube Live, Akamai, Wowza Media Server.
Audio Mixing	Integrated multi-channel audio mixer for internal and external audio sources, outputs, stream and headphones. Incorporated video switcher follow feature with audio crossfade support when fading two video sources.
Supported Formats	HD: 720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080i59.94 and 1080i60SD: 625/25 PAL, 525/29.97 NTSC
Playback Media Formats	GFX: JPEG or PNG image files with transparency support. DDR: AVI MJPEG with uncompressed audio, DV Video, WMV (7/8/9), H.264 (.mov & .avi), MPEG4 Part 2 (.mov & .avi), MPEG4 V1/V2 (.mov & .avi), AAC, MP3
Record Media Formats	AVI MJPEG with uncompressed audio
Operating System	Windows 7 Professional (64 bit) or better
CPU	Intel Core i7-4790K Haswell Quad-Core 4.0GHz
Graphics Card	On Board Graphics
Storage	2TB WD BLACK SERIES WD2003FZEX 7200 RPM/ SATA 2.5" Internal Hard Drive
RAM	G.SKILL Trident X Series 16GB (2 x 8GB) 240-Pin DDR3 SDRAM
Processing	Video: 4:2:2, 10 bit Color (REC 601, REC 709) Audio: 48 kHz, 24-bit EF IN/Genlock (Requires genlocking the two Blackmagic Design cards via two separate connectors)
Built-in Video Input/ Output Cards	3 Blackmagic Design DeckLink Mini Recorders (PCI), 1 Blackmagic Design DeckLink Mini Monitor (PCI)
Included in the box	"Power cable. Livestream Studio™ Keyboard. Mouse. Livestream Mousepad. Rack Ears Rubber Feet. Blackmagic Design cards documentation and driver CD. Warranty"
Physical Dimensions	13.7" (D) x 19" (W) x 3.5" (H) ~13.8 lbs

