



Studio HD1710

Powerful live production switcher
for demanding jobs

STREAMS TO

vimeo · livestream

f LIVE

twitch

YouTube



solutions.nextcomputing.com/livestream-studio



The Livestream Studio HD1710 is the best combination of powerful hardware and software in a turnkey, 3U rack-mountable live production switcher that raises the bar for connectivity, flexibility, and ease of use.

With up to 17 broadcast standard SDI inputs and support for the ubiquitous NDI™ network video protocol, no video format is out of reach for your product. Plus, with unique audience engagement features like Remote Guest, Vimeo chat moderation, and social data integration, you can take your shows to new levels of interactivity.

Key Features:

- Pre-installed with Livestream Studio live video production software
- Up to 16x HD 3G-SDI Inputs and 1x 4K 6G-SDI/HDMI switchable input
- Up to 8x HD 3G-SDI and 1x 4K 6G-SDI/HDMI switchable output
- Includes Control Surface with T-bar, PTZ controls, and customisable buttons
- Up to 25x NDI inputs and 5x NDI outputs
- Up to 4x external display outputs via DisplayPort 1.4
- Removable storage bays for up to (2) 2.5" SSDs
- Multiple audio inputs, including 4x 1/4-inch balanced analog inputs
- Included rack-mount ears
- PTZ Camera Control
- HDMI, SDI, NDI, and Wireless camera input support
- Simultaneous streaming to multiple destinations
- Independent Multi-View outputs
- Broadcast-quality transitions
- Professional, multi-layered graphics
- Data-driven graphics from multiple sources (social media, RSS feeds, spreadsheet files and more)
- Remote control via browser
- Isolated recording of multiple sources (ISO recording)
- Frame-accurate media playback
- Multi-channel audio mixing

| | LS-HD1710-84 | LS-HD1710-124 | LS-HD1710-164 | LS-HD1710-88 |
|--------------------------------------|--|--|--|---|
| Hardware Video Inputs | 8x HD 3G-SDI inputs, 1x 4K 6G-SDI/HDMI switchable input | 12x HD 3G-SDI inputs, 1x 4K 6G-SDI/HDMI switchable input | 16x HD 3G-SDI inputs, 1x 4K 6G-SDI/HDMI switchable input | 8x HD 3G-SDI inputs, 1x 4K 6G-SDI/HDMI switchable input |
| Hardware Video Outputs | 4x HD 3G-SDI outputs, 1x 4K 6G-SDI/HDMI switchable output | | | 8x HD 3G-SDI outputs, 1x 4K 6G-SDI/HDMI switchable output |
| Network Video Input | 25x NDI (Network Device Interface) inputs | | | |
| Network Video Output | 5x NDI (Network Device Interface) outputs | | | |
| Digital Audio Inputs | 16x channels per SDI input, 8x channels per HDMI input | | | |
| Digital Audio Outputs | 16x channels per SDI output, 8x channels per HDMI output | | | |
| AES/EBU Digital Audio Inputs | 2x unbalanced audio inputs | | | |
| AES/EBU Digital Audio Outputs | Up to 4x channels unbalanced if using Analog outputs 3 & 4 as AES/EBU outputs | | | |
| Analog Audio Inputs | 4x balanced analog audio input via 4x 1/4" inch jack connectors; 1x 1/8" (3.5mm) rear panel microphone input, 1x 1/8" (3.5mm) rear panel line-level audio input | | | |
| Analog Audio Outputs | 4x balanced analog audio output via 4x 1/4" inch jack connectors. Channels 3 & 4 can switch to AES/EBU outputs, 1x 1/8" (3.5mm) rear panel headphone output, 1x 1/8" (3.5") front panel headphone output, 1x 1/8" (3.5") rear panel line-level audio output | | | |
| User Interface Output | 1x DisplayPort output for Livestream Studio User Interface | | | |
| Multi-View Outputs | 3x DisplayPort outputs with customizable multi-view layouts | | | |
| Software Features | | | | |
| Remote Guests | 5x independent remote guest inputs with integrated chat; Remote guests join via WebRTC supporting browser. No plug-ins or 3rd party software required. | | | |
| Media Sources | 7x integrated digital media sources for video & graphics playback: <ul style="list-style-type: none"> • 2x DDRs (video clip playback with built-in transcoder) • 3x GFX (graphics) • 2x Color Bars / Background Color | | | |
| Remote Cameras | 10x remote camera modules for ingesting video/audio over local WiFi or Ethernet network, downlinking streams, and interviews via WebRTC | | | |
| 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 Multi-view | On-screen full frame rate multi-view 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 multi-view screens. | | | |
| Graphics (Downstream Key) | <ul style="list-style-type: none"> • 3x GFX channels • Independent or locked transition controls (fade/cut) • Preview on Multi-view • Supported file types: JPEG, PNG, BMP, TIFF, XPM image files with transparency support." | | | |
| Media Playback | 2x Media Players: Eject/Load clip, Play Pause/stop, Audio/Video Scrubber, Timecode indicator, Seek to timecode, Mark In/Mark Out, Loop, Auto-play on transition. Supported file types: AVI MJPEG with uncompressed audio, DV Video, WMV (7/8/9), H.264 (.mp4, .mov & .avi), MPEG4 Part 2 (.mov & .avi), MPEG4 V1/V2 (.mov & .avi), AAC, MP3, WAV, ASF, M4V, M4A, 3GP, 3GPP, 3G2, SMI, SAMI, ADTS | | | |
| Recording | 4x isolated (ISO) source recordings in MJPEG AVI format with uncompressed audio - OR - 1x MP4 recording with compressed AAC audio Program output Stream to File (MP4) | | | |
| Recording Capacity | ~40 hours at 1080i (Using 2TB built in SSD with recorder set to record at 100Mbps MJPEG AVI) | | | ~80 hours at 1080i (Using 2x 2TB built in SSD with recorder set to record at 100Mbps MJPEG AVI) |
| Streaming Output | HD and UHD (4K) livestreaming over built-in Ethernet or WiFi. Multiple simultaneous bit rates up to 4k 30fps, including mobile formats for playback on iOS/Android mobile devices. | | | |

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|--|---|---------------|---------------|--|
| Streaming Destinations | Vimeo, Facebook Live, Periscope, Ustream, YouTube Live, Akamai, Wowza Media Server, Twitch or any other RTMP compatible service. Stream to multiple destinations simultaneously. | | | |
| 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 Video Formats | <ul style="list-style-type: none"> • 4K: Up to 2160p30 • HD: Up to 1080p60 • SD: 525i59.94 NTSC, 625i50 PAL | | | |
| Hardware Specifications | | | | |
| CPU | Intel® Core™ i9-10900X X-series Processor, 19.25M Cache, 3.70 GHz | | | |
| Graphics Card | NVIDIA® Quadro P2200 with 4x DisplayPort outputs | | | |
| Memory | 64GB DDR4 RAM | | | |
| Storage | 1x 2TB removable Solid State Drive (SSD) | | | 2x 2TB removable Solid State Drives (SSDs) |
| Additional External Storage I-O | <ul style="list-style-type: none"> • Up to 25 NDI interfaces (input or output) • 6 x USB 3.1 Gen 1 port(s) 3 x USB 3.1 Gen 2 port(s) | | | |
| Network | <ul style="list-style-type: none"> • 2x RJ-45 Gigabit Ethernet (10/100/1000 Mb/s) • WiFi (802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band) | | | |
| USB Ports | 11x USB 3.0/3.1 (Type-A), 1x USB 3.1 Type-C, 4x USB 2.0 | | | |
| Operating System | Windows 10 Pro 64-bit | | | |
| Dimensions | 16.50" x 20.83" x 5.25" (41.91 x 52.91 x 13.34 cm) - 3U rack height | | | |
| Weight | 20.40 lb (9.25 kg) | | | |
| Control Panel Specifications | | | | |
| Controls and Indicators | <ul style="list-style-type: none"> • 6x auxiliary 4-Way Buttons with OLED Displays and RGB Multilevel Metering LED Bars • 2x backlit Encoders with OLED Displays • 1x pressure-Sensitive Elastomer Zoom Rocker • 1x pressure-Sensitive Elastomer Joystick Pad • 12x function-Selector Buttons with OLED Displays and RGB Multi-level Metering LED Bars • 24x program Keys with 12 OLED Displays (supports up to 24 program and 24 preview keys via shift key function) • 1x hall-Effect T-Bar with RGB LED Bar and OLED Display • 10x function Keys with OLED Displays • 6x M/E Keys with 2 OLED Displays • 2 Key layer with DVE and Chroma Key | | | |
| Connectors | <ul style="list-style-type: none"> • 1 x RJ-45 Ethernet • 1 x Micro-USB • 1 x DC Power Input | | | |
| Power Source | PoE IEEE802.3af, DC | | | |
| Dimensions | 17.3 x 9.1 x 5.5" (44 x 23 x 14 cm) | | | |
| Weight | 5.5 lb (2.5 kg) | | | |