

Studio Output Module

The NewTek IP Series Studio Output Module is a multi-channel, multi-format video delivery hub enabling your organization to distribute more video to more destinations and monetize more streams of content. Residing on your network, the Studio Output Module serves as the interface between the mix, source, and overlay signals in your NDI™ workflow and the SDI transmission systems and displays that comprise your broadcast and live viewing experience, infusing your established physical framework with the flexibility of IP.

Explore and execute new strategies for scaling your production, differentiating your content, incorporating branding, and acquiring and activating sponsorships. Whether your goal is revenue, consumption, or exposure, the Studio Output Module allows you to maximize the value and multiply the returns from every production.

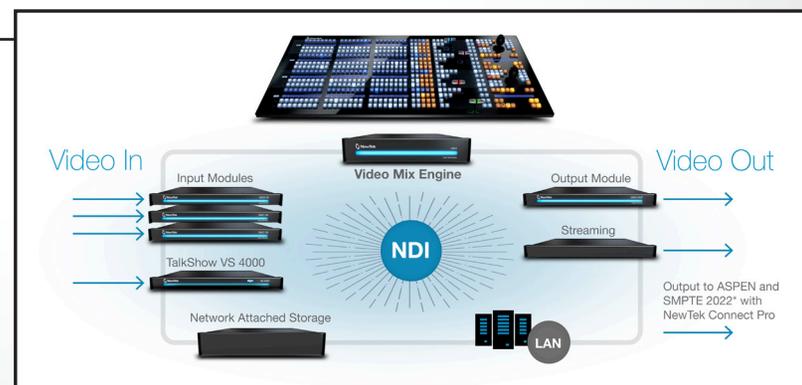
From installation to integration, connection to production, the Studio Output Module and the NewTek IP Series present possibilities and opportunities that are truly limitless.

About the NewTek IP Series Ecosystem

The NewTek IP Series is a transformative video ecosystem for interconnected production. It transcends conventional workflows by leveraging innovative NDI technology and modular architecture to form a scalable production network that allows legacy and contemporary technologies to coexist seamlessly, and video, audio, and data to be shared universally between systems and locations across a simplified infrastructure.

The Studio Output Module Advantage

- SDI-to-NDI Translation**
 Convert and deliver IP-based video signals, each with independently assignable overlay, to SDI systems and devices.
- Stackable and Scalable**
 Incorporate multiple modules into your installation, increasing your local output capacity and deploying delivery points throughout your network.
- 3G 1080p Ready**
 Integrates effortlessly into your existing infrastructure with multi-format processing and native support for emerging transmission standards.
- Expanded Crosspoint**
 Augment real-time production operations by introducing four assignable crosspoints per module into your workflow.
- Multipurpose Signal Flow**
 Composite output signals are simultaneously delivered to SDI systems and displays, and returned to the network for access and use by other NDI-compatible receiving devices.

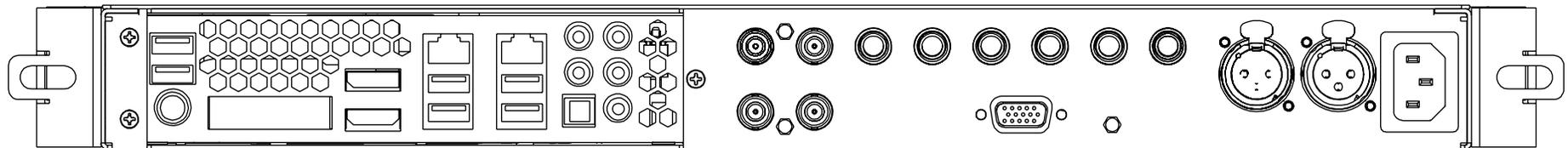


VMC1 OUT Studio Output Module Technical Specifications

Local Video Output	4 x 3G/HD/SD-SDI outputs 1 x DVI or HDMI user interface with multiviewer
Network Video Output	4 x NDI outputs
Network Video Input	4 x NDI inputs 4 x NDI DSK channel inputs
DSK Channels	4 x DSK channels (1 channel per output)
Media	Media player mode available per channel supporting playback of multimedia files
Local Audio Output	4 x SDI Embedded 1 x 2 Balanced XLR 3 x 2 Balanced 1/4"
Network Audio	<ul style="list-style-type: none"> • Native support for network audio input and output via NDI • Embedded audio supported for all NDI input and output video signals • Integrated support for Dante* networking protocol from Audinate * Requires Dante Virtual Soundcard license from Audinate (sold separately)
Supported SDI Output Formats	<ul style="list-style-type: none"> • 1080p 59.94, 1080p 50, 1080p 29.97, 1080p 25, 1080p 24, 1080p 23.98 • 1080i 59.94, 1080i 50 • 720p 59.94, 720p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 • 576i 25 • 480i 59.94
Recording	<ul style="list-style-type: none"> • 4 x recording channels via IsoCorder™ technology • QuickTime®* (XDCAM HD compatible, 4:2:2 encoding, 24-bit audio, with timecode) • Supports recording to external storage via USB 3.0 • Supports shared storage integration and third-party partner solutions * QuickTime Player not required for playback in common NLE applications

Grab	Grab full resolution, de-fielded still images from outputs
Monitoring	Integrated multiviewer display with configurable workspace and viewports
Signal Monitoring	Integrated Waveform and Vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709
Processing	Video: Floating Point, YCbCr +A 4:4:4:4 Audio: Floating Point, 96 kHz
A/V Standards	<ul style="list-style-type: none"> • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 292M • SD video conforms to SMPTE 259M and ITU-R BT.656 • Analog audio levels conform to SMPTE RP-155
Genlock	Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals
Timecode	External LTC source or internal system clock
NIC	2 x 1 Gigabit NIC
System Physical	1RU chassis with 180W PSU • 19.0 x 1.75 x 16.75 in (48.3 x 4.5 x 42.5 cm) with rack ears attached • 15 lbs (6.8 kg)

Subject to change without notice.
For complete technical specifications, please visit the IP Series page at www.newtek.com.
International pricing and availability may vary. Please email sales@newtek.com for details.



NX-001911-0001, Rev.03

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