



TalkShow® VS 100 ORDERING GUIDE

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All information included in this Ordering Guide is subject to change without notice.

TALKSHOW VS 100 OVERVIEW

Broadcasters and media organizations don't have to consume valuable time, effort and resources coordinating the travel or technology to incorporate remote guests into their production. With NewTek TalkShow VS 100, they can integrate Skype video calls with any contact they can reach online into their SDI or IP video workflows for compelling live conversation, expert analysis, real-time commentary and in-depth discussion—in distraction-free, broadcast-quality HD.

NewTek TalkShow VS 100 is a professional video calling production system for conducting live, production-ready Skype video calls in distraction-free, broadcast-quality HD. TalkShow VS 100 provides the most complete set of behind-the-scenes control, communication and monitoring capabilities of any single-channel video calling system, and makes it possible to connect instantly with any remote guest, expert, or reporter in any location around the world, at any time—in real time—to incorporate more compelling conversations and interviews into productions.

No other single-channel video calling production solution provides a more complete set of real-time capabilities to conduct live, production-ready Skype video calls with any contact anywhere in the world.



TalkShow VS 100 hardware

KEY BENEFITS

Access to More Contacts and Content

NewTek TalkShow VS 100 gives you immediate access to fresh, global, authoritative content

- Reach any Skype contact—300 million monthly users and counting
- Connect with any guest from around the world who has or can download the free Skype app
- Go on location with guests, correspondents or reporters for live reports

More Coverage with Less Spending

NewTek TalkShow VS 100 increases your programming opportunities while reducing costs

- Expand in-house or local reporting to national or global coverage
- Slash travel budgets and operational expenses associated with live remotes
- Eliminate need for satellite trucks and transmission
- Integrate easily into your existing infrastructure with little to no added expense

Facility-Class, Professional Production

NewTek TalkShow VS 100 is a professional-grade system with a broadcast-ready workflow

- Streamlined 1RU rackmount hardware with industry-standard connections
- NDI™ integration and SDI I/O supporting SDI, IP or hybrid SDI/IP workflows
- Comprehensive, behind-the-scenes video, audio, communication and monitoring capabilities
- Compatible with Skype TX controller application for centralized call management and control in multi-unit installations

Distraction-Free Video Calling

NewTek TalkShow VS 100 minimizes distractions so you can focus on great interviews

- Clean, full-resolution HD video free from the pop-ups interruptions, and notifications typical of regular Skype
- Eliminates unexpected interference from other applications, dialog boxes from the OS and installed software firewalls
- Purpose-built production hardware prevents risks of mixing personal communication applications with professional systems



TalkShow VS 100 backplane



TALKSHOW VS 100 FEATURES

INTEGRATION

Skype TX Software	Next-gen Skype technology developed by Microsoft to enable two-way video calling within broadcast environments
1RU Hardware	Streamlined, rack-ready chassis, purpose-designed for professional workflows and requirements, and efficient single- or multi-unit installation
Video Over IP	Integrate into IP video workflows via NDI, NewTek's innovative Network Device Interface technology, which allows TalkShow to send Skype video calls across the network to TriCaster® and other NDI-enabled systems and devices, and receive NDI video sources over IP for return to caller
Audio Over IP	Integrate into IP audio workflows via NDI, NewTek's innovative Network Device Interface technology
SDI I/O with Embedded Audio	Integrate into any conventional production workflow with industry-standard HD-SDI connections (1-in, 1-out)—with embedded audio on input and output
XLR Audio I/O	Professional XLR analog audio connections to relay call audio to audio mixer and supply return audio to caller
Multi-Unit Control	Supports centralized management of multiple units from a single user interface via Skype TX controller application

OPERATION

Optimized On-Air Video	NewTek's proprietary real-time video processing engine ensures superb scaling, format conversion, aspect ratio, and color correction routines, while limiting return video resolution and prioritizing incoming call video for maximum quality
Built-In Video Quality Checks	Automatic failover to custom caller snapshot when bandwidth falls before an operator-defined preset value, while maintaining call audio
Tally Notification	Supports customizable tally overlay for return to caller, indicating on-air status
Talk Back	One-button, offline communication with caller to provide instructions, relay information, or prepare them before they go live on air
Full-Bandwidth Call Recording	Connect external USB 3.0 or SAN storage to record video calls as QuickTime® files
Return Signal De-interlacing	De-interlaces SDI video input into the system, resulting in higher-quality return signal to caller and smooth, fluid video free of fielding lines and combing artifacts

PRODUCTION TOOLS

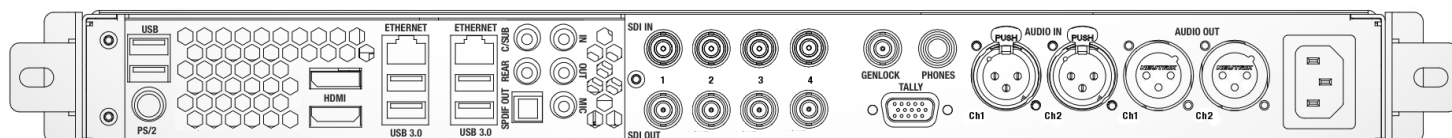
Real-Time Video Tools	Built-in proc amp and auto color correction tools to adjust image attributes, compensate for inadequate lighting conditions, and enhance call video quality
Real-Time Audio Tools	Built-in compressor/limiter tools, gain control, graphic equalizer, noise gate and VU metering (configurable for dBFS, dBU, and dBVU) to maintain consistent call volume and prevent audio clipping

TALKSHOW VS 100 TECHNICAL SPECIFICATIONS

Hardware Video Input	1 x HD-SDI with embedded audio
Hardware Video Output	1 x HD-SDI with embedded audio
Hardware Audio Input	1 x embedded SDI audio 2 x Balanced XLR (Line)
Hardware Audio Output	1 x embedded SDI audio 2 x Balanced XLR (Line)
IP Networking	Integrated NDI technology enabling transmission of A/V input and output signals over IP between TalkShow and other supported systems, including TriCaster, 3Play® and select third-party partner solutions
Call Recording	Supported via integration with external hardware running NewTek IsoCorder™ applications
Video Effect Controls	Fully configurable color correction settings for incoming and outgoing Skype video signals, including white balance, proc amp controls and auto color
Audio Effect Controls	Fully configurable settings for incoming and outgoing audio signals, including gain control, seven-band equalizer and compressor/limiter
Talk Back	Supports direct, off-air communication between operator and remote caller via headset (optionally configurable for control via external GPI trigger)
Call Management	Supports multi-channel Skype TX call management over IP via Skype TX controller application
Local Monitoring	<ul style="list-style-type: none"> • HDMI connectivity for local video monitoring • Stereo 1/4" phone jack for local audio monitoring • Full-motion input and output video previews within user interface • Audio VU metering
Supported Output Formats	Configurable call video output resolution and frame rate, with support for NTSC and PAL formats <ul style="list-style-type: none"> • 1080i – 25, 29.97, 30 • 1080p – 23.98, 24 • 720p – 50, 59.94, 60 • 1080i (4:3 anamorphic) – 25, 29.97, 30 • 720p (4:3 anamorphic) – 50, 59.94, 60 • 576i (16:9 or 4:3) – 25 • 480i (16:9 or 4:3) – 29.97
Return Video Formats	Configurable return video input resolution and frame rate, with support for NTSC and PAL formats (available selections vary depending on output video format selected) <ul style="list-style-type: none"> • 1080i – 29.97, 25 • 1080p – 30, 30 PsF, 24, 24 (Telecine), 25, 25 PsF • 720p – 30, 25, 24 • 576i (16:9 or 4:3) – 25 • 480i (16:9 or 4:3) – 29.97
Watermark	Optionally supports Skype logo watermark on output
Tally	Supports hardware tally via HD15 GPI connector or network tally via NewTek NDI
Control Interface	Direct mouse and keyboard USB interface required



GPI	HD15 GPI connector
Reference	<ul style="list-style-type: none"> Genlock input supporting SD (Bi-level) or HD (Tri-level) reference signals +4dBu audio reference level
Software	Microsoft® Windows® Embedded 10, Skype TX control software, and TalkShow control software
CPU	4th Generation i7 Quad-Core
Graphics	Intel® HD4600 GPU
Memory	8Gb
Storage	120Gb internal SSD
Processing	Video: 4:4:4:4, 32-bit Floating Point Audio: Floating Point, 96 kHz
Standards	HD-SDI video conforms to SMPTE 292M SD-SDI video conforms to SMPTE 259M
Network	Dual gigabit Ethernet NIC supporting Skype TX call transmission, NDI transmission to and from supported systems
System Fail-Safe	<ul style="list-style-type: none"> Multi-tiered fail-safe system Comprehensive system restore operation
System Physical	1RU Rack Mount with 180W power supply (110-220V external; 12V internal) <ul style="list-style-type: none"> 19.0 x 1.75 x 16.75 in (48.3 x 4.5 x 42.5 cm) with rack ears attached 14 lbs (6.4 kg)



Subject to change without notice



TALKSHOW MODEL COMPARISON

	TalkShow VS 4000	TalkShow VS 100
Skype Channels	Up to 4 simultaneous	1
HD-SDI Inputs	4 with embedded audio	1 with embedded audio
HD-SDI Outputs	4 with embedded audio	1 with embedded audio
Analog Audio I/O	1 x 2 Balanced XLR (input) 1 x 2 Balanced XLR (output)	1 x 2 Balanced XLR (input) 1 x 2 Balanced XLR (output)
Video Over IP	NDI	NDI
Audio Over IP	NDI	NDI
Configurable I/O Sources	Yes	Yes
Local Video Management	Yes	Yes
Local Audio Management	Yes	Yes
Color Correction Tools	Yes	Yes
Advanced Audio Controls	Yes; incoming calls only	Yes; incoming call and return signal
Audio VU Metering	Yes	Yes
Talk Back Communication	Local communication with individual callers or all callers	Local communication with caller
Call Recording	Supported via integration with external hardware running NewTek IsoCorder™ applications	Local control of capture to external storage
Configurable Local Video Preview	Yes	Yes
Video Output Preview	Yes	Yes
Picture-in-Picture View	Call video with return video overlay (configurable per channel)	-
Configurable Monitor Layouts	Yes	-
Configurable Video Overlays	Optionally display safe areas, center cross and VU meters	-
Auto Aspect Ratio Conversion	Yes	Yes
Call Quality Monitoring	Yes	Yes
Optional Skype Watermark Overlay	Yes	Yes
Automatic Failover to Still Image	Yes	Yes
Waveform Monitor / Vectorscope	Yes	-
Genlock	Yes	Yes
System Restore	Yes	Yes
Tally	Yes	Yes
Call Management	Skype TX controller application	Integrated Skype TX interface
Form Factor	1RU	1RU

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ORDERING INFORMATION

	TalkShow VS 100
TSVS-100	TalkShow VS 100
PTTSVS-100	ProTek for TalkShow VS 100 (initial 2 year coverage)
RPTTSVS-100	Renewal ProTek for TalkShow VS 100 (1 year renewal)
EHWTSVS-100	2-Year Hardware Warranty for TalkShow VS 100 (1 year Extension plus 1 year Standard Warranty)
REHWTSVS-100	Renewal Extended Hardware Warranty for TalkShow VS 100 (1 year renewal)
	TalkShow Accessories
RR1RU	Rack Rails for 1RU (available for NC1I/O, NC1IN, NVG1-D, NVG1-S, TSVS-4000, TSVS-100 and MDS1) Note: For use with round-hole broadcast racks only, not generic server racks.