Technical Specifications

Ax IP inputs via NDI™			
1 x DVI or HDMI user interface with multiviewer	Local Video Input	4 x 3G/HD/SD-SDI inputs	
Network Video Output 4 x IP source outputs via NDI Local Audio Input 4 x SDI embedded 1 x 2 Balanced XLR (Line) 3 x 2 Balanced XLR (Line) 4 x Balanced XLR (Line) 5 x 2 x 1 Balanced XLR (Line) 5 x 1 Balanced XLR (Li	Network Video Input	4 x IP inputs via NDI™	
A × SDI embedded 1 x 2 Balanced XLR (Line) 3 x 2 Balanced 1/4" (Line) 4 x 5 Rolanced 1/4" (Line) 5 x 2 Balanced 1/4" (Line) 6 x 2 Balanced 1/4" (Line) 7 x 2 Balanced 1/4" (Line) 8 x 2 Balanced 1/4" (Line) 9 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x	Local Video Output	1 x DVI or HDMI user interface with multiviewer	
1 x 2 Balanced 1/4" (Line) 3 x 2 Balanced 1/4" (Line) • Native support for network audio input and output via NDI • Embedded audio supported for all NDI input and output vide osignals • Integrated support for Dante ** networking protocol from Audinate* * Requires Dante Virtual Soundcard license from Audinate (sold separately) • 10800 fs.99.4 (1880) 50, 1080p 29.97, 1080p 25, 1080p 24, 1080p 23.98 • 1080i 59.94, 120p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 • 1080i 59.94 (1880) 50 • 720p 59.94, 720p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 • 576i 25 • 480i 59.94 Encoding • X RTMP streams with support for Adobe* Flash* RTMP (RTMPE, RTMPT, RTMPTE, RTMPS), Apple* HTTP Live Streaming HHLS), MPEG-DASH, and WOWZ**, and simultaneous stream file archive Streaming Targets Independently configurable per video stream, with support for multiple selections and configurable presets Independently configurable per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Video Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709 Video: Floating Point YCbCr + A 4:4:4:4 AUO Standards 1 33-SDI video conforms to SMPTE 424M (Level A) 1 HD-SDI video conforms to SMPTE 292M 2 x 1 Gigabit NIC 2 x 1 Gigabit NIC 1 x 1 Gigabit NIC	Network Video Output	4 x IP source outputs via NDI	
Embedded audio supported for all NDI input and output video signals Integrated support for Danle [™] Networking protocol from Audinate [®] ** ** ** ** ** ** ** ** ** ** ** ** *	Local Audio Input	1 x 2 Balanced XLR (Line)	
- 1080 is 9.94, 1080 is 0 - 720p 59.94, 720p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 - 576 i 25 - 480 is 9.94 Encoding 4 x RTMP streams via integrated NewTek streaming encoder Streaming Delivery 4 x independent streams with support for Adobe® Flash® RTMP (RTMPE, RTMPT, RTMPTE, RTMPS), Apple® HTTP Live Streaming (HLS), MPEG-DASH, and WOWZ™, and simultaneous stream file archive Streaming Targets Independently configurable per video stream, with support for multiple selections and configurable presets Independently configurable per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Video Configuration Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream Video: Floating Point YCbCr +A 4:4:4:4 Audio: Floating Point YCbCr +A 4:4:4:4 Audio: Floating Point, 48 kHz AV Standards Video: Floating Point, 70 kMPTE 424M (Level A) + HD-SDI video conforms to SMPTE 424M (Level A) + HD-SDI video conforms to SMPTE 292M - SDI video conforms to SMPTE 87-155 2 x 1 Gigabit NIC 1 RU 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	Network Audio	 Embedded audio supported for all NDI input and output video signals Integrated support for Dante™* networking protocol from Audinate® 	
Streaming Delivery 4 x independent streams with support for Adobe® Flash® RTMP (RTMPE, RTMPT, RTMPTE, RTMPS), Apple® HTTP Live Streaming (HLS), MPEG-DASH, and WOWZ™, and simultaneous stream file archive Independently configurable per video stream, with support for multiple selections and configurable presets Independently configurable per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Video Configuration Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards 13G-SDI video conforms to SMPTE 424M (Level A) 1BU chassis with 180W PSU	Supported SDI Input Formats	 1080i 59.94, 1080i 50 720p 59.94, 720p 50, 720p 29.97, 720p 25, 720p 24, 720p 23.98 576i 25 	
HTTP Live Streaming (HLS), MPEG-DASH, and WOWZ™, and simultaneous stream file archive Independently configurable per video stream, with support for multiple selections and configurable presets Independently configurable per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Video Configuration Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards 3-G-SDI video conforms to SMPTE 424M (Level A) HD-SDI video conforms to SMPTE 292M SD video conforms to SMPTE 299M and ITU-R BT.656 Analog audio levels conform to SMPTE RP-155 NIC 2 x 1 Gigabit NIC IRU 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	Encoding	4 x RTMP streams via integrated NewTek streaming encoder	
Independently configurable per video stream, with presets included in formats up to 1080p 60 Web Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Video Configuration Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards • 3G-SDI video conforms to SMPTE 424M (Level A) • HD-SDI video conforms to SMPTE 259M and ITU-R BT.656 • Analog audio levels conform to SMPTE RP-155 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	Streaming Delivery		
Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards 3-3G-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 NIC 2 x 1 Gigabit NIC 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	Streaming Targets	Independently configurable per video stream, with support for multiple selections and configurable presets	
and direct editing supported via HTML and CSS Monitoring Integrated multiviewer display with configurable workspaces and viewports Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards - 3G-SDI video conforms to SMPTE 424M (Level A) - HD-SDI video conforms to SMPTE 259M and ITU-R BT.656 - Analog audio levels conform to SMPTE RP-155 NIC 2 x 1 Gigabit NIC IRU 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	Streaming Profiles	Independently configurable per video stream, with presets included in formats up to 1080p 60	
Video Configuration Independently configurable video delay and color correction settings for each video stream, including white balance, proc amp controls and auto color Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream Integrated waveform and vectorscope, full field rate with digital calibration, color preview and support for ITU-R Rec. 709 Video: Floating Point YCbCr +A 4:4:4:4 Audio: Floating Point, 48 kHz AV Standards - 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 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	Web	Built-in webpage available per video stream for local network viewing, with hosted media player, embed codes, and direct editing supported via HTML and CSS	
balance, proc amp controls and auto color Audio Configuration Independently configurable audio delay, automatic gain control, and manual audio channel level controls for each video stream 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, 48 kHz AV Standards 3G-SDI video conforms to SMPTE 424M (Level A) HD-SDI video conforms to SMPTE 292M SD video conforms to SMPTE 299M and ITU-R BT.656 Analog audio levels conform to SMPTE RP-155 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	Monitoring	Integrated multiviewer display with configurable workspaces and viewports	
each video stream 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 Audio: Floating Point, 48 kHz A/V Standards • 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 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	Video Configuration		
Rec. 709 Video: Floating Point YCbCr +A 4:4:4:4 Audio: Floating Point, 48 kHz A/V Standards • 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 NIC 2 x 1 Gigabit NIC 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	Audio Configuration		
Audio: Floating Point, 48 kHz • 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 NIC 2 x 1 Gigabit NIC 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	Signal Monitoring		
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 NIC 2 x 1 Gigabit NIC 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	Processing		
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	A/V Standards	HD-SDI video conforms to SMPTE 292M SD video conforms to SMPTE 259M and ITU-R BT.656	
• 19.0 x 1.75 x 16.75 in (48.3 x 4.5 x 42.5 cm) with rack ears attached	NIC	2 x 1 Gigabit NIC	
	System Physical	• 19.0 x 1.75 x 16.75 in (48.3 x 4.5 x 42.5 cm) with rack ears attached	

Subject to change without notice.

For complete technical specifications, please visit the MDS page at www.newtek.com. International pricing and availability may vary. Please email sales@newtek.com for details.



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