

	Good	Better		Best	
	Studio One	HD51	HD550	HD51 – 4K	HD550 – 4K
Price (MSRP)	4K HDMI \$5,575	\$7,499	\$8,499	\$9,499	\$10,499
	HD HDMI \$5,575				
	HD SDI \$5,575				
Inputs					
HD-SDI Inputs	4	5	5	5	5
NDI Input	25	25	25	25	25
HDMI Inputs	2 (4K)	5	5	5	5
	4 (HD)				
Composite Input (BNC)	0	0	0	0	0
S-VIDEO Input	0	0	0	0	0
Component Input	0	0	0	0	0
Analog Audio (1/8") Input	1	1	1	1	1
AES/EBU Input	0	0	2 (XLRs)	0	2 (XLRs)
Analog Audio (1/4") Input	2	0	2	0	2
Outputs					
NDI Output	5	5	5	5	5
Audio Monitoring (1/8")	1	1	1	1	1
HDMI Outputs	1	1	1	1	1
Standard/High Definition SDI Output	1	1	1	1	1
Composite Output (BNC)	0	0	0	0	0
S-VIDEO Output	0	0	0	0	0
Component Output	0	0	0	0	0
Analog Audio (1/8") Output	1	1	1	1	1
Analog Audio (1/4") Output	2	0	0	0	0
AES/EBU Output	0	0	0	0	0
Additional AES/EBU OR Analog Audio Output	0	0	0	0	0
Features					
Remote Guest Support	5	5	5	5	5
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	10 x Remote camera module 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 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 Multiscreen	1x Extended Screen outputs (HDMI)	3x Extended Screen outputs (Mini-DisplayPort)	2x Extended Screen outputs (Mini-DisplayPort)	3x Extended Screen outputs (Mini-DisplayPort)	2x Extended Screen outputs (Mini-DisplayPort)
Video Switcher/Mixer	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)				

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	Studio One	HD51	HD550	HD51 – 4K	HD550 – 4K	
Graphics Downstream Key	3 x Graphics DSK (downstream key) channels. One channel for GFX1, one channel for GFX2 and onechannel for GFX 3. Independent or locked transition controls (fade/cut/wipe). 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, GFX2 or GFX3					
Video Clip Playback	2 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					
Recording	Up to 4 simultaneous isolated source recordings. MJPEG with uncompressed audio or 1 MP4 Recording with AAC audio compression. Interlacing and timecode support. Full compatibility with Blackmagic Design Media Express and Adobe Premiere.					
Recording Capacity	~20 hours at 1080i (Using 1 TB built in HDD with recorder set to record at 100Mbps MJPEG AVI)	~20 hours at 1080i (Using 1 TB built in SSD with recorder set to record at 100Mbps MJPEG AVI)	~20 hours at 1080i (Using 1 TB built in SSD with recorder set to record at 100Mbps MJPEG AVI)	~40 hours at 1080i (Using 2 TB built in SSD with recorder set to record at 100Mbps MJPEG AVI)	~40 hours at 1080i (Using 2 TB built in SSD with recorder set to record at 100Mbps MJPEG AVI)	
Live Streaming	HD live streaming via 1000/100/10 built-in Ethernet or WiFi. Presets in up to 4K (4K Available in HD550-4K, HD51-4K, StudioOne 4K Only).					
Streaming Quality	Multiple simultaneous bit rates (up to 4k 30fps on 4K capable models), including mobile quality for playback on iOS/Android mobile devices.					
Streaming Destinations	Vimeo, Facebook Live, Periscope, Ustream, YouTube Live, Akamai, Wowza Media Server, Twitch or any other RTMP compatible service.					
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	4K: Up to 2160p30 <i>Studio One 4K HDMI Only</i>	4K: N/A	4K: N/A	4K: Up to 2160p30	4K: Up to 2160p30	
	HD: Up to 1080p60 <i>Studio One HD SDI / HDMI Only</i>	HD: Up to 1080i60	HD: Up to 1080i60	HD: Up to 1080p60	HD: Up to 1080p60	
	SD: 525i59.94 NTSC, 625i50 PAL	SD: 525i59.94 NTSC, 625i50 PAL	SD: 525i59.94 NTSC, 625i50 PAL	SD: 525i59.94 NTSC, 625i50 PAL	SD: 525i59.94 NTSC, 625i50 PAL	
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 (.mp4, .mov & .avi), MPEG4 Part 2 (.mov & .avi), MPEG4 V1/V2 (.mov & .avi), AAC, MP3					
Record Media Formats	AVI MJPEG with uncompressed audio. MP4 with AAC audio compression.					
Hardware						
Operating System	Windows 10 Professional (64 bit)					
Built-in Display	None	None	Integrated 17" (1920x1080) HD LED LCD	None	Integrated 17" (1920x1080) HD LED LCD	
CPU	Intel® Core™ i5-9600K Processor 9M Cache, up to 4.60 GHz	Intel® Core™ i7-9800X X-series Processor 16.5M Cache, up to 4.50 GHz	Intel® Core™ i7-9800X X-series Processor 16.5M Cache, up to 4.50 GHz	Intel® Core™ i9-10900X X-series Processor 19.25M Cache, 3.70 GHz	Intel® Core™ i9-10900X X-series Processor 19.25M Cache, 3.70 GHz	
Graphics Card	Integrated Intel® UHD Graphics 630	NVIDIA Quadro P400				
Storage	1 TB Western Digital Black 7200 RPM Class/ SATA 2.5"	1TB Intel 660p M.2 NVMe SSD	1TB Intel 660p M.2 NVMe SSD	2TB Intel 660p M.2 NVMe SSD	2TB Intel 660p M.2 NVMe SSD	
RAM	16GB	32GB	32GB	64GB	64GB	
Built-in Network interfaces	Gigabit 10/100/1000 Mb/s Ethernet and Wi-Fi (802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band)	Dual Gigabit Ethernet (10/100/1000 Mb/s) and WiFi (802.11 a/b/g/n/ac, supporting 2.4/5 GHz Dual-Band)				
USB Type-C 3.1 Ports	1	1	1	1	1	
USB Type-A 3.0 / 3.1 Ports	4	11	7	11	7	
USB Type-A 2.0 Ports	1	4	4	4	4	
Bluetooth	No	No	No	No	No	
Media Card Slot	0	0	0	0	0	
Hardware Encoding	Intel® Quick Sync Video	NVIDIA NVENC	NVIDIA NVENC	NVIDIA NVENC	NVIDIA NVENC	
HDMI / SDI Video & Audio Processing						
SD Video Standards	525i59.94 NTSC, 625i50 PAL	525i59.94 NTSC, 625i50 PAL	525i59.94 NTSC, 625i50 PAL	525i59.94 NTSC, 625i50 PAL	525i59.94 NTSC, 625i50 PAL	
HD Video Standards	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60

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	Studio One	HD51	HD550	HD51 – 4K	HD550 – 4K
2K Video Standards	N/A	N/A	N/A	2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p 2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI F25PsF (SDI Only)	2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p 2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI F25PsF (SDI Only)
Ultra HD Video Standards	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30	N/A	N/A	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30
4K DCI Video Standards	N/A	N/A	N/A	4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p	4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p
SDI Compliance	N/A	SMPTE 259M and 292M.	SMPTE 259M and 292M.	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M, SMPTE 2081, ITU-R BT.656 and ITU-R BT.601	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M, SMPTE 2081, ITU-R BT.656 and ITU-R BT.601
SDI Metadata Support	N/A	RP 188/SMPTE 12M-2 and closed captioning.	RP 188/SMPTE 12M-2 and closed captioning.	RP 188/SMPTE 12M-2 and closed captioning.	RP 188/SMPTE 12M-2 and closed captioning.
SDI Color Precision	10-bit & 12-bit.	8-bit & 10-bit.	8-bit & 10-bit.	8, 10, 12-bit RGB 4:4:4 in all modes up to 1080p60, and 8, 10-bit YUV 4:2:2 in all modes.	8, 10, 12-bit RGB 4:4:4 in all modes up to 1080p60, and 8, 10-bit YUV 4:2:2 in all modes.
HDMI Color Precision	Up to 12-bit (HDMI) 4K Model Only Below 4: 4: 4 8-bit at max 297MHz 4:2:2 12-bit at max 297MHz 4:4:4 10/12-bit at max 170MHz	8-bit & 10-bit.	8-bit & 10-bit.	Up to 12-bit (Deep Color)	Up to 12-bit (Deep Color)
SDI Video Sampling	RGB/YCbCr 4:4:4, YCbCr 4:2:2	YUV 4:2:2	YUV 4:2:2	YUV 4:2:2	YUV 4:2:2
HDMI Video Sampling	RGB/YUV 4:4:4, YUV 4:2:2	YUV 4:2:2	YUV 4:2:2	4:4:4, 4:2:2 & 4:2:0	4:4:4, 4:2:2 & 4:2:0
Color Space	Full colorimetry support	REC 601, REC 709	REC 601, REC 709	REC 601, REC 709, REC 2020	REC 601, REC 709, REC 2020
Mutiple Rate Support	Auto switch between SD/HD/2K/4K (2K/4K Only available in 4K Model)	SDI and HDMI are switchable between standard definition and high definition	SDI and HDMI are switchable between standard definition and high definition	HDMI and SDI video connections are switchable between SD/HD/2K and 4K.	HDMI and SDI video connections are switchable between SD/HD/2K and 4K.
Copy Protection	HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content	HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content	HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content	HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.	HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.
Colorspace Conversion	Hardware based real time.	Hardware based real time.	Hardware based real time.	Hardware based real time.	Hardware based real time.
HD to SD Down Conversion	No Support	Software based down conversion during video capture.	Software based down conversion during video capture.	Software based down conversion during video capture.	Software based down conversion during video capture.
HD Up Conversion	No Support	Software based up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox or 16:9 anamorphic.	Software based up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox or 16:9 anamorphic.	Software based up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox or 16:9 anamorphic.	Software based up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox or 16:9 anamorphic.
Audio Processing	Up to 8 IEC60958/IEC61937 (HDMI) Up to 8 (mono) at 48KHz (SDI) Up to 8 IEC60958/IEC61937 (4K)	Television standard sample rate of 48 kHz and 24 bit.			
Built-in Video Input/Output Cards	Magewell Eco Capture M.2, 1 Blackmagic Design DeckLink Mini Monitor (PCIe)	5 Blackmagic Design DeckLink Mini Recorder (PCIe), 1 Blackmagic Design DeckLink Mini Monitor (PCIe)	5 Blackmagic Design DeckLink Mini Recorder (PCIe), 1 Blackmagic Design DeckLink Mini Monitor (PCIe)	5 Blackmagic Design DeckLink Mini Recorder 4k (PCIe), 1 Blackmagic Design DeckLink Mini Monitor 4k (PCIe)	5 Blackmagic Design DeckLink Mini Recorder 4k (PCIe), 1 Blackmagic Design DeckLink Mini Monitor 4k (PCIe)
Accessories					
Included in the Box	Power cable, Livestream Studio™ Keyboard, Mouse, Livestream Mousepad, Blackmagic Design cards documentation and driver USB, warranty	Power cable, Livestream Studio™ Keyboard, Mouse, Livestream Mousepad, Rack Ears (HD51 Models only), Blackmagic Design cards documentation and driver CD, warranty			
Livestream Studio™ Keyboard	Included	Included	Included	Included	Included
Custom Carry Bag	n/a	n/a	Included	n/a	Included
Physical	7.5" (D) x 12" (W) x 6.5" (H) ~6.0 lbs	14" (D) x 17" (W) x 3.5" (H) ~13.8 lbs	3.03" - 4.19" (D, Top to Bottom Taper) x 17.33" (W) x 14.8" (H) ~19 lbs	14" (D) x 17" (W) x 3.5" (H) ~13.8 lbs	3.03" - 4.19" (D, Top to Bottom Taper) x 17.33" (W) x 14.8" (H) ~19 lbs
Shipping	US only from NextComputing and resellers. Globally from resellers.				
Driver Versions	Click here to view a complete list of current driver and software versions				

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