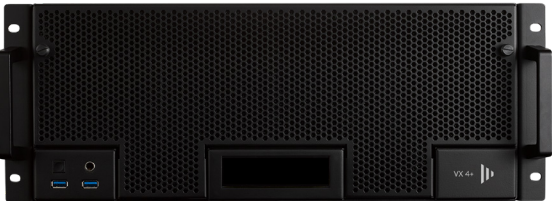


VX 4+

PLAY BACK VIDEO AT INFINITE SCALE

The VX 4+ is the new industry standard media server powering the world’s biggest and most technically demanding live and virtual productions.



WARRANTIES & SUPPORT

2 year return to base hardware warranty
(plus options to extend warranty length)

BUNDLED ACCESSORIES

Keyboard, Mouse, Power Cable (powerCON True1: USA/EU/UK), Hardware Guide, Rear Support, Rack Slides (available upon request)

UPGRADES

(AS – At Sale, F – Field)

- Storage Upgrade 4x 15.36TB ^{AS, F}
- Storage Upgrade 4x 30.72TB ^{AS, F}
- Storage Upgrade 4x 61.44TB ^{AS, F}
- Storage Upgrade 4x 120TB ^{AS, F}

Storage capacity for these upgrades will be half of what is shown as default due to shipping in a RAID10 configuration. It is not advised to change to RAID0 configuration due to its lack of redundancy for media storage. As such, data cannot be retrieved in case of drive failure.

PHYSICAL SPECIFICATIONS

	W	H	D
Packed Dimensions	711mm 28"	508mm 20"	737mm 29"
Unit Dimensions	445mm 17.52"	178mm 7"	593mm 23.35"
Unit + Rack Handles	483mm 19"	-	621mm 24.45"
Rack Depth	-	-	585mm 23.03"
Unit Weight	21kg 46.3lbs		
Packed Unit Weight	28kg 61.7lbs		

VX 4+

HARDWARE SPECIFICATIONS

Voltage: 100-240V, 50-60Hz*

Power Connection: Neutrik powerCON True1

Power Consumption Peak: 785 W

Heat Dissipation Peak: 2,679 BTU/h

Operating System: Windows 10 Enterprise GAC

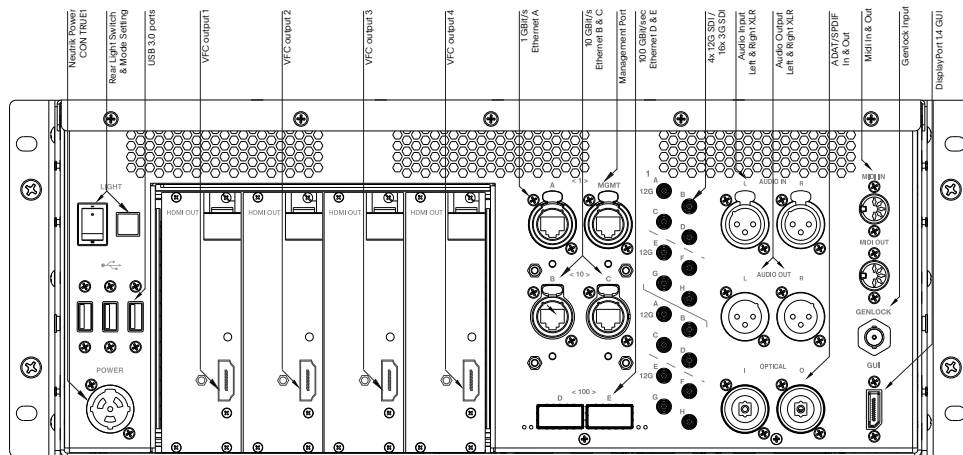
Environmental Tolerances: Temperature: 5-35°C (40°-95°F) / Humidity: 5%-95% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

Mounting System: 4U 19" rack mount

OS: 2x 256GB SSD

Storage: 4x 1.92TB (7.68TB total) Removable NVMe SSD with RAID

Memory: 128GB RAM (8x 16GB)



SYSTEM CONNECTIVITY I/O

Video Output:

- 1x Displayport 1.4 (GUI)
- 4x 4K outputs using VFC cards
- Ships standard with HDMI 2.0 VFC cards**

Video Input:

- 4X 12G inputs or 16x 3G inputs (HD-BNC connectors)

Audio:

- Balanced XLR (circular 3-pin connector) 2x in, 2x out
- Analogue (1/4 headphone jack) 1x in

Optical Audio:

- ADAT/SPDIF (Toslink connector) 1x in, 1x out

MIDI:

- MIDI (circular 5-pin DIN connector) 1x in, 1x out

General Network:

- 1x 1Gb/sec Ethernet
- 2x 10Gb/sec Ethernet

High Speed Network: 2x 100Gb/sec Ethernet (QSFP28)

System Management Controller: 1x Management Port (Ethernet)

Data/Peripherals: 5x USB 3.0

Video Sync: 1x BNC Genlock

* for countries with variable power supply we recommend a UPS to provide a consistent voltage.

** different Video Format Conversion Cards also available, refer to VFC specifications.

PLAYBACK

Video codec	Content data rate	Max layers
HD HAP	31 MB/s	58
HD HAP 60	62 MB/s	48
HD HAPQ	61.25 MB/s	51
HD HAPQ 60	122.5 MB/s	42
HD Animation	187.25 MB/s	40
HD Animation 60	374.5 MB/s	24
HD TIFF Sequence	237 MB/s	36
HD TIFF Sequence 60	474 MB/s	19
HD NotchLC	78.375 MB/s	30
HD NotchLC 60	156.75 MB/s	24
UHD HAP	132 MB/s	31
UHD HAP 60	264 MB/s	24

Video codec	Content data rate	Max layers
UHD HAPQ	261.25 MB/s	22
UHD HAPQ 60	522.5 MB/s	15
UHD Animation	798.25 MB/s	9
UHD Animation 60	1596.5 MB/s	3
UHD TIFF Sequence	949 MB/s	9
UHD TIFF Sequence 60	1898 MB/s	5
UHD NotchLC	331.5 MB/s	13
UHD NotchLC 60	663 MB/s	9
UHD DPX Sequence, 8-bit, RGB, 30	759 MB/s	10
UHD DPX Sequence, 8-bit, RGB, 60	1518 MB/s	4
UHD DPX Sequence, 10-bit, RGB, 30	1011 MB/s	9
UHD DPX Sequence, 10-bit, RGB, 60	2022 MB/s	3

Video codec	Content data rate	Max layers
UHD TGA Sequence, 8-bit, RGB, 30	759 MB/s	11
UHD TGA Sequence, 8-bit, RGB, 60	1518 MB/s	6
UHD TGA Sequence, 8-bit, RGBA, 30	1011 MB/s	9
UHD TGA Sequence, 8-bit, RGBA, 60	2022 MB/s	5
UHD TIFF Sequence, 8-bit, RGB, 30	759 MB/s	11
UHD TIFF Sequence, 8-bit, RGB, 60	1518 MB/s	6
UHD TIFF Sequence, 8-bit, RGBA, 30	1011 MB/s	9
UHD TIFF Sequence, 8-bit, RGBA, 60	2022 MB/s	4

Testing completed on r25 159604

- All HD codecs listed above have an output resolution relevant to Full-HD (1920 x 1080)
- All UHD codecs listed above have an output resolution relevant to 4K DCI (4096 x 2160)

VX 4+

CAPTURE LATENCY

The following table provides data on how many frames of latency the VX 4+ requires from capture to output, measured for both Deltacast and Matrox capture cards:

VX 4+ DELTACAST

Refresh rate	Normal mode (frames)	Low latency mode (frames)	Ultra-low latency (frames)
60Hz	5	4	3
50Hz	5	4	3
30Hz	5	4	3

VX 4+ MATROX

Refresh rate	Normal mode (frames)	Low latency mode (frames)	Ultra-low latency (frames)
60Hz	5	4	4
50Hz	5	4	4
30Hz	5	4	4

Measured against r22.2