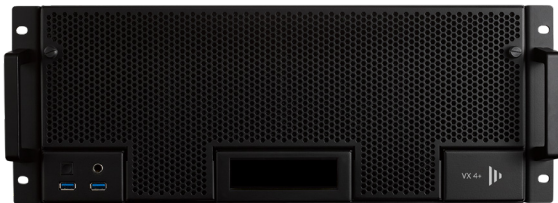


VX 4+

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	-	-	625mm 24.6"
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

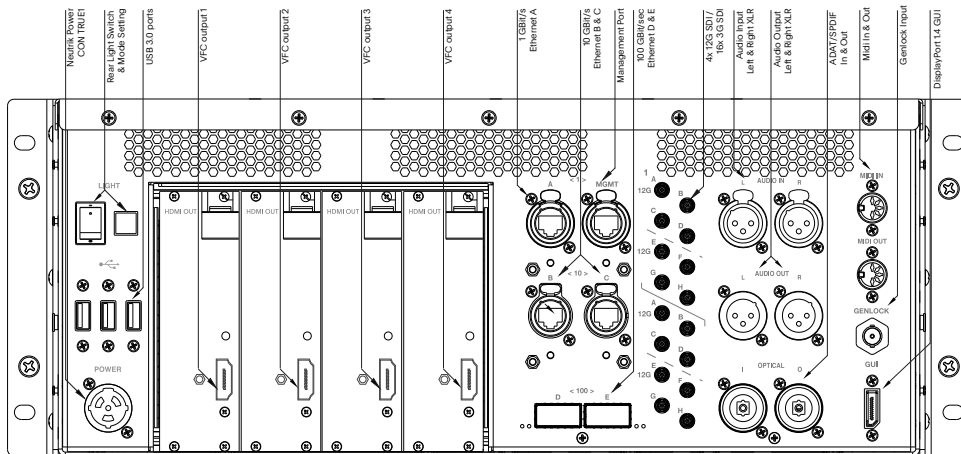
Environmental Tolerances: Temperature: 5-35°C (40°-95°F) / Humidity: 5%-95% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

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)

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.



FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	58
HAP 60	62 MB/s	48
HAPQ 30	61.25 MB/s	51
HAPQ 60	122.5 MB/s	42
Animation 30	187.25 MB/s	40
Animation 60	374.5 MB/s	24
TIFF Sequence 30	237 MB/s	36
TIFF Sequence 60	474 MB/s	19
NotchLC 30	78.375 MB/s	30
NotchLC 60	156.75 MB/s	24
ProRes 422 30	151 MB/s	23
ProRes 422 60	302 MB/s	12
ProRes HQ 30	232 MB/s	23
ProRes HQ 60	464 MB/s	11
ProRes 4444 30	348 MB/s	13
ProRes 4444 60	696 MB/s	7

4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	31
HAP 60	264 MB/s	24
HAPQ 30	261.25 MB/s	22
HAPQ 60	522.5 MB/s	15
Animation 30	798.25 MB/s	9
Animation 60	1596.5 MB/s	3
TIFF Sequence 30	949 MB/s	9
TIFF Sequence 60	1898 MB/s	5
NotchLC 30	331.5 MB/s	13
NotchLC 60	663 MB/s	9
ProRes 422 30	654 MB/s	5
ProRes 422 60	1308 MB/s	3
ProRes HQ 30	991 MB/s	5
ProRes HQ 60	1982 MB/s	3
ProRes 4444 30	1490 MB/s	3
ProRes 4444 60	2980 MB/s	2

4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
DPX Sequence, 8-bit, RGB, 30	759 MB/s	10
DPX Sequence, 8-bit, RGB, 60	1518 MB/s	4
DPX Sequence, 10-bit, RGB, 30	1011 MB/s	9
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	3
TGA Sequence, 8-bit, RGB, 30	759 MB/s	11
TGA Sequence, 8-bit, RGB, 60	1518 MB/s	6
TGA Sequence, 8-bit, RGBA, 30	1011 MB/s	9
TGA Sequence, 8-bit, RGBA, 60	2022 MB/s	5
TIFF Sequence, 8-bit, RGB, 30	759 MB/s	11
TIFF Sequence, 8-bit, RGB, 60	1518 MB/s	6
TIFF Sequence, 8-bit, RGBA, 30	1011 MB/s	9
TIFF Sequence, 8-bit, RGBA, 60	2022 MB/s	4

Testing completed on r26 168310

ProRes testing completed on r27.8 191665

Performance specifications listed here outline the max amount of video layers that are achievable on a single VX 4+ These can fluctuate in future releases.

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