

VX 3

UNPARALLELED VERSATILITY

Built to support large format pre-rendered or real-time video playback, the VX 3 provides a flexible, versatile and scalable solution with three 4K video outputs, ideal for mid to upper tier live events and experiences.



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 7.68TB ^{AS, F}
- Storage Upgrade 15.36TB ^{AS, F}
- Storage Upgrade 30TB ^{AS, F}

PHYSICAL SPECIFICATIONS

	W	H	D
Packed Dimensions	670mm 26.37"	386mm 15.2"	790mm 31.1"
Unit Dimensions	440mm 17.32"	176mm 6.93"	595mm 23.43"
Unit + Rack Handles	483mm 19"	-	625mm 24.6"
Rack Depth	-	-	625mm 24.6"
Unit Weight	17.8 kg 39.24 lbs		
Packed Unit Weight	26.3 kg 58 lbs		

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HARDWARE SPECIFICATIONS

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

Power Connection: Neutrik powerCON True1

Power Consumption Peak: 657 W

Heat Dissipation Peak: 2,242 BTU/h

Max Decibel Rating: 56db

Operating System: Windows 11 Enterprise GAC

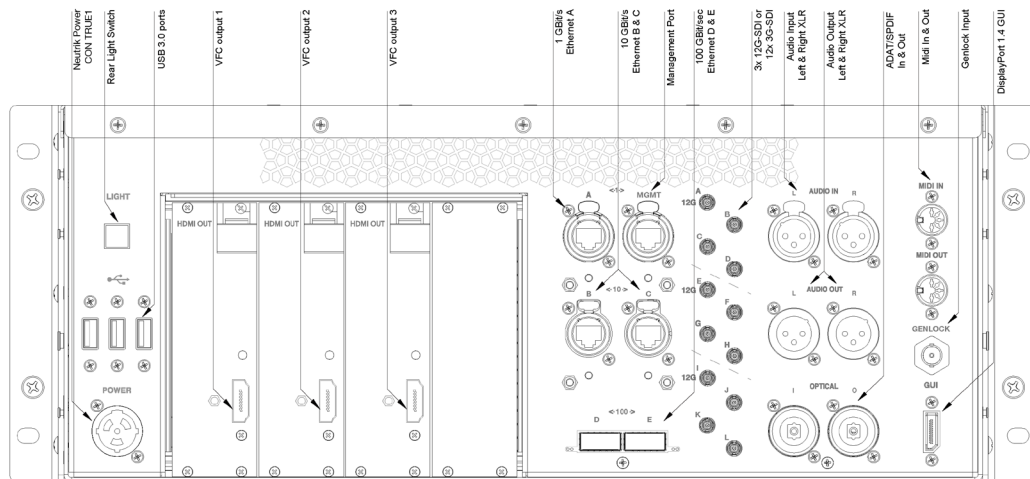
Environmental Tolerances: Temperature: 5-35°C (40°-95°F) / Humidity: 5%-95% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

Mounting System: 4U 19" rack mount

OS: 2x Internal Storage Drives

Storage: 3.84TB SSD (default)

Memory: 96GB RAM (6x 16GB)



SYSTEM CONNECTIVITY I/O

Video Output:

- 1x DisplayPort 1.4 (GUI)
- 3x 4K outputs using VFC cards
- Ships standard with HDMI 2.0 VFC cards**

Video Input:

- 3x 12G or 12x 3G (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

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

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FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	45
HAP 60	62 MB/s	44
HAPQ 30	61.25 MB/s	39
HAPQ 60	122.5 MB/s	28
Animation 30	187.25 MB/s	18
Animation 60	374.5 MB/s	9
TIFF Sequence 30	237 MB/s	13
TIFF Sequence 60	474 MB/s	6
NotchLC 30	78.375 MB/s	35
NotchLC 60	156.75 MB/s	23
ProRes 422 30	151 MB/s	29
ProRes 422 60	302 MB/s	15
ProRes HQ 30	232 MB/s	25
ProRes HQ 60	464 MB/s	13
ProRes 4444 30	348 MB/s	15
ProRes 4444 60	696 MB/s	8

4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	25
HAP 60	264 MB/s	13
HAPQ 30	261.25 MB/s	13
HAPQ 60	522.5 MB/s	6
Animation 30	798.25 MB/s	4
Animation 60	1596.5 MB/s	1
TIFF Sequence 30	949 MB/s	3
TIFF Sequence 60	1898 MB/s	2
NotchLC 30	331.5 MB/s	11
NotchLC 60	663 MB/s	5
ProRes 422 30	654 MB/s	6
ProRes 422 60	1308 MB/s	3
ProRes HQ 30	991 MB/s	6
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	4
DPX Sequence, 8-bit, RGB, 60	1518 MB/s	1
DPX Sequence, 10-bit, RGB, 30	1011 MB/s	3
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	1
TGA Sequence, 8-bit, RGB, 30	759 MB/s	4
TGA Sequence, 8-bit, RGB, 60	1518 MB/s	2
TGA Sequence, 8-bit, RGBA, 30	1011 MB/s	3
TGA Sequence, 8-bit, RGBA, 60	2022 MB/s	1
TIFF Sequence, 8-bit, RGB, 30	759 MB/s	4
TIFF Sequence, 8-bit, RGB, 60	1518 MB/s	2
TIFF Sequence, 8-bit, RGBA, 30	1011 MB/s	3
TIFF Sequence, 8-bit, RGBA, 60	2022 MB/s	1

Testing completed on r27.2 181738

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 3. These can fluctuate in future releases.

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CAPTURE LATENCY

The following table provides data on how many frames of latency the VX 3 requires from capture to output, measured for both Deltacast and Matrox capture cards:

VX 3 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