

GX 3

TAKE LIVE EVENTS TO THE NEXT LEVEL

The GX 3 is the new go-to media server for touring artists who want to run the most intricate set designs.



WARRANTIES & SUPPORT

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

BUNDLED ACCESSORIES

Keyboard, Mouse, Power Cable (powerCON True1: US/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}

SOFTWARE

Notch playback licence (2 years)

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	17.7 kg 39.03 lbs		
Packed Unit Weight	26.3 kg 58 lbs		

GX 3

HARDWARE SPECIFICATIONS

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

Power Connection: Neutrik powerCON True1

Power Consumption Peak: 700 W

Heat Dissipation Peak: 2,388 BTU/h

Max Decibel Rating: 56dB

Operating System: Windows 10 Enterprise GAC

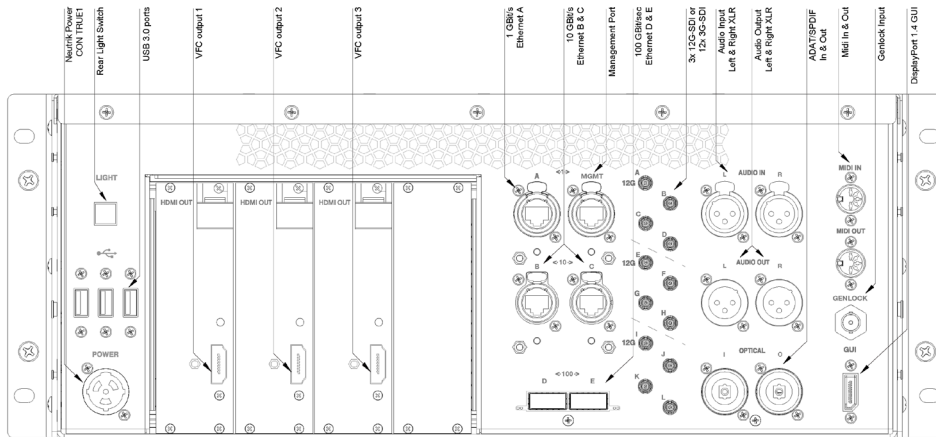
Environmental Tolerances: Temperature: 5-35°C (40°-95°F) / Humidity: 5%-95% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

Mounting System: 4U 19" rack mount

OS: 2x 256GB SSD

Storage: 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

GX 3

FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	48
HAP 60	62 MB/s	47
HAPQ 30	61.25 MB/s	44
HAPQ 60	122.5 MB/s	24
Animation 30	187.25 MB/s	16
Animation 60	374.5 MB/s	8
TIFF Sequence 30	237 MB/s	12
TIFF Sequence 60	474 MB/s	6
NotchLC 30	78.375 MB/s	39
NotchLC 60	156.75 MB/s	20
ProRes 422 30	151 MB/s	29
ProRes 422 60	302 MB/s	15
ProRes HQ 30	232 MB/s	26
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	24
HAP 60	264 MB/s	12
HAPQ 30	261.25 MB/s	12
HAPQ 60	522.5 MB/s	6
Animation 30	798.25 MB/s	4
Animation 60	1596.5 MB/s	2
TIFF Sequence 30	949 MB/s	3
TIFF Sequence 60	1898 MB/s	2
NotchLC 30	331.5 MB/s	9
NotchLC 60	663 MB/s	5
ProRes 422 30	654 MB/s	7
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	2
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 r26 164886

ProRes testing completed on r27.8 1919665

Performance specifications listed here outline the max amount of video layers that are achievable on a single GX 3. These can fluctuate in future releases.

GX 3

CAPTURE LATENCY

The following table provides data on how many frames of latency the GX 3 requires from capture to output.

GX 3 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