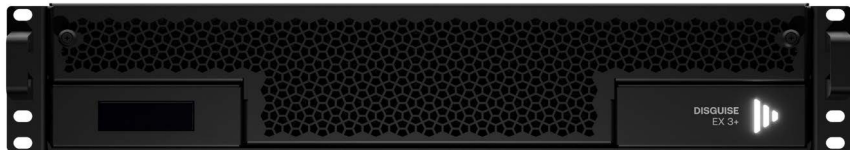


EX 3+

THE GATEWAY TO DISGUISE

The EX 3+ has been designed to provide live events and experiences with a compact yet powerful video playback solution, unlocking the gateway to the most advanced live visual experience platform in the world.



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, Rack Rails*

*support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm).

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	620mm 24.4"	310mm 12.2"	850mm 33.46"
Unit Dimensions	441mm 17.4"	88.4mm 3.5"	645.25mm 25.4"
Unit + Rack Handles	483.6mm 19"	88.4mm 3.5"	677.5mm 26.7"
Rack Depth	-	-	677.5mm 26.7"
Unit Weight		11.5kg 25.35lbs	
Packed Unit Weight		21.5kg (est) 47.4lbs (est)	

EX 3+

HARDWARE SPECIFICATIONS

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

Power Connection: Neutrik powerCON True1

Power Consumption Peak: 332W

Heat Dissipation Peak: 1,132 BTU/hr

Max Decibel Rating: 52.4dB

Operating System: Windows 11 Enterprise GAC

GPU: NVIDIA RTX 4000 Ada

Environmental Tolerances: Temperature: 5-35°C

(40°-95°F) / Humidity: 20-80% (non-condensing)

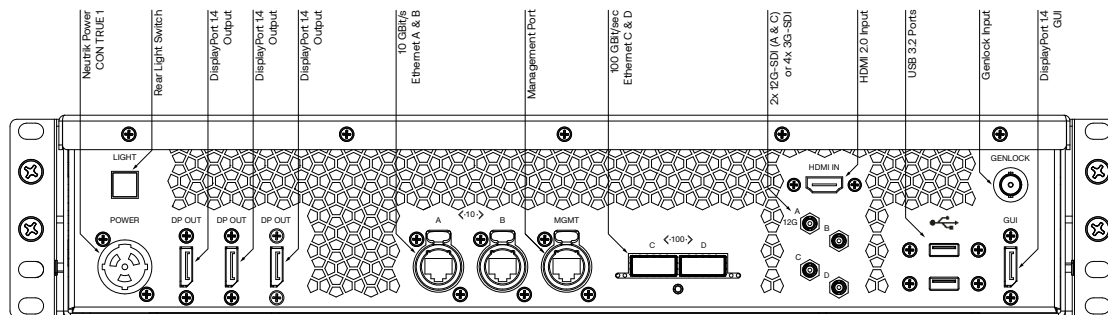
/ Altitude: 0-2700m (0-8850 ft)

Mounting System: 2U 19" rack mount

OS: 1x Internal Storage Drive

Storage: 3.84TB Removable NVMe SSD (default)

Memory: 96GB RAM (6x 16GB)



SYSTEM CONNECTIVITY I/O

Video Output:

- 3x 4K DCI** outputs using DisplayPort 1.4

Video Input: Up to 3x 4K DCI inputs*** or 4x Full-HD inputs via any combination of the following:

- 1x HDMI 2.0 capture (HDMI connector)
- 2x 12G SDI inputs via Ports A and C (HD-BNC connector)
- 4x 3G SDI inputs (HD-BNC connector)

Audio / Optical Audio / MIDI:

- N/A

General Network:

- 2x 10Gb/s (Ethernet)

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

System Management Controller: 1x Management Port (Ethernet)

Data/Peripherals: 2x USB 3.2 (Gen 2x1)

Video Sync: 1x BNC Genlock

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

** Max. resolution of X 4096px and Y 2400px supported per available video output.

***HDMI input and an additional 12G SDI input is available using Designer software version r32.2 onwards alongside OS version 25Q3 onwards.

EX 3+

FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	56
HAP 60	62 MB/s	48
HAPQ 30	61.25 MB/s	50
HAPQ 60	122.5 MB/s	38
Animation 30	187.25 MB/s	29
Animation 60	374.5 MB/s	20
TIFF Sequence 30	237 MB/s	32
TIFF Sequence 60	474 MB/s	19
NotchLC 30	78.375 MB/s	38
NotchLC 60	156.75 MB/s	23
ProRes 422 30	151 MB/s	26
ProRes 422 60	302 MB/s	13
ProRes HQ 30	232 MB/s	21
ProRes HQ 60	464 MB/s	11
ProRes 4444 30	348 MB/s	14
ProRes 4444 60	696 MB/s	10

4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	23
HAP 60	264 MB/s	19
HAPQ 30	261.25 MB/s	22
HAPQ 60	522.5 MB/s	16
Animation 30	798.25 MB/s	9
Animation 60	1596.5 MB/s	5
NotchLC 30	331.5 MB/s	18
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	8
DPX Sequence, 8-bit, RGB, 60	1518 MB/s	5
DPX Sequence, 10-bit, RGB, 30	1011 MB/s	4
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	2
TGA Sequence, 8-bit, RGB, 30	759 MB/s	10
TGA Sequence, 8-bit, RGB, 60	1518 MB/s	6
TGA Sequence, 8-bit, RGBA, 30	1011 MB/s	8
TGA Sequence, 8-bit, RGBA, 60	2022 MB/s	4
TIFF Sequence, 8-bit, RGB, 30	759 MB/s	10
TIFF Sequence, 8-bit, RGB, 60	1518 MB/s	5
TIFF Sequence, 8-bit, RGBA, 30	1011 MB/s	8
TIFF Sequence, 8-bit, RGBA, 60	2022 MB/s	5

Testing completed on r28 194541

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

EX 3+

CAPTURE LATENCY

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

EX 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

Testing completed on r28 194541