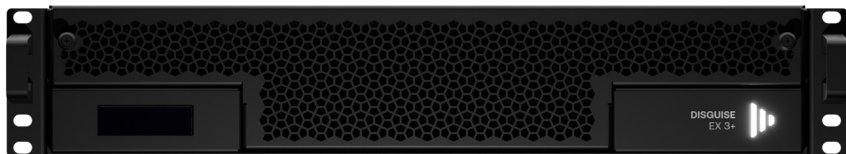


# EX 3+



## THE GATEWAY TO DISGUISE

The EX 3+ has been designed to provide live events and experiences with a compact yet powerful pre-rendered 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 <sup>AS,F</sup>
- Storage Upgrade 15.36TB <sup>AS,F</sup>
- Storage Upgrade 30TB <sup>AS,F</sup>

## PHYSICAL SPECIFICATIONS

|                            | W              | H                             | D                 |
|----------------------------|----------------|-------------------------------|-------------------|
| <b>Packed Dimensions</b>   | 620mm<br>24.4" | 310mm<br>12.2"                | 850mm<br>33.46"   |
| <b>Unit Dimensions</b>     | 441mm<br>17.4" | 88.4mm<br>3.5"                | 645.25mm<br>25.4" |
| <b>Unit + Rack Handles</b> | 483.6mm<br>19" | 88.4mm<br>3.5"                | 677.5mm<br>26.7"  |
| <b>Rack Depth</b>          | -              | -                             | 677.5mm<br>26.7"  |
| <b>Unit Weight</b>         |                | 11.5kg<br>25.35lbs            |                   |
| <b>Packed Unit Weight</b>  |                | 21.5kg (est)<br>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

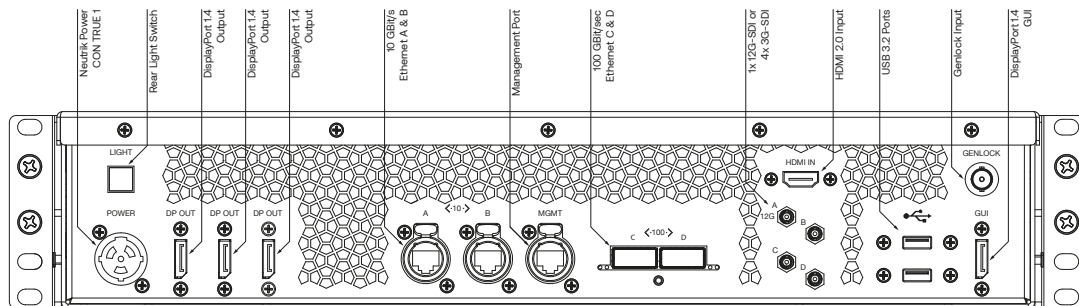
**Environmental Tolerances:** Temperature: 5-35°C (40°-95°F) / Humidity: 20-80% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

**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:

- 1x DisplayPort 1.4 (GUI)
- 3x DisplayPort 1.4 (Outputs)

**Video Input:** Up to 2x 4K DCI inputs or 8x Full-HD inputs via:

- 1x 12G or 4x 3G SDI (HD-BNC connectors)
- 1x HDMI 2.0 capture

### 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.

# 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