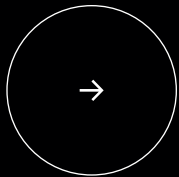
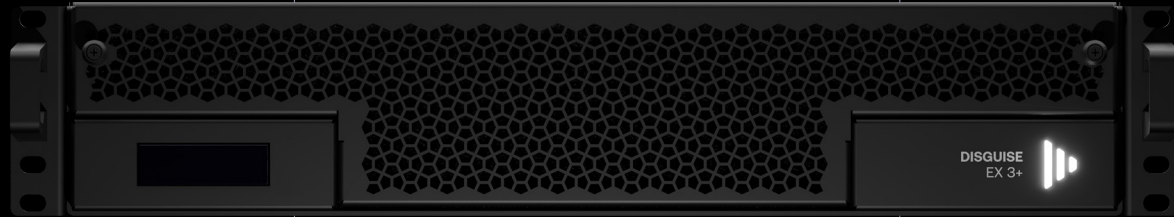


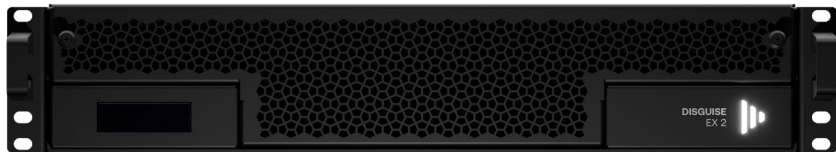
# EX range



# EX 2

## THE GATEWAY TO DISGUISE

The EX 2 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 3.84TB <sup>AS, F</sup>
- 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 24.4"	310mm 12.2"	850mm 33.46"
<b>Unit Dimensions</b>	441mm 17.4"	88.4mm 3.5"	645.25mm 25.4"
<b>Unit + Rack Handles</b>	483.6mm 19"	88.4mm 3.5"	677.5mm 26.7"
<b>Rack Depth</b>	-	-	677.5mm 26.7"
<b>Unit Weight</b>		11kg 24.2lbs	
<b>Packed Unit Weight</b>		21kg (est) 46.3lbs (est)	

# EX 2

## HARDWARE SPECIFICATIONS

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

**Power Connection:** Neutrik powerCON True1

**Power Consumption Peak:** 312W

**Heat Dissipation Peak:** 1,065 BTU/hr

**Max Decibel Rating:** 52.4db

**Operating System:** Windows 11 Enterprise GAC

**GPU:** NVIDIA RTX 4000 Ada

**Environmental Tolerances:** Temperature:

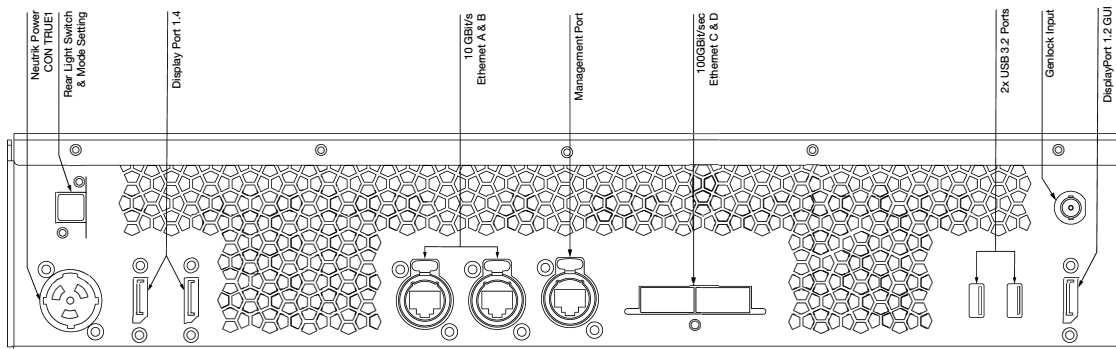
5-35°C (40°-95°F) / Humidity: 20%-80% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

**Mounting System:** 2U 19" rack mount

**OS:** 1x Internal Storage Drive

**Storage:** 1.92TB Removable NVMe SSD (default)

**Memory:** 64GB RAM (4x 16GB)



## SYSTEM CONNECTIVITY I/O

**Video Output:**

- 1x DisplayPort 1.4 (GUI)
- 2x DisplayPort 1.4 (Outputs)

**Video Input:**

- video input via NDI only

**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 2

## FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	55
HAP 60	62 MB/s	45
HAPQ 30	61.25 MB/s	50
HAPQ 60	122.5 MB/s	38
Animation 30	187.25 MB/s	40
Animation 60	374.5 MB/s	25
TIFF Sequence 30	237 MB/s	39
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	17
ProRes 422 60	302 MB/s	8
ProRes HQ 30	232 MB/s	14
ProRes HQ 60	464 MB/s	7
ProRes 4444 30	348 MB/s	9
ProRes 4444 60	696 MB/s	5

## 4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	21
HAP 60	264 MB/s	16
HAPQ 30	261.25 MB/s	20
HAPQ 60	522.5 MB/s	16
Animation 30	798.25 MB/s	12
Animation 60	1596.5 MB/s	5
NotchLC 30	331.5 MB/s	15
NotchLC 60	663 MB/s	7
ProRes 422 30	654 MB/s	5
ProRes 422 60	1308 MB/s	2
ProRes HQ 30	991 MB/s	4
ProRes HQ 60	1982 MB/s	2
ProRes 4444 30	1490 MB/s	2
ProRes 4444 60	2980 MB/s	1

## 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	6
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	3
TGA Sequence, 8-bit, RGB, 30	759 MB/s	12
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	12
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	5

### Testing completed on r28 194541

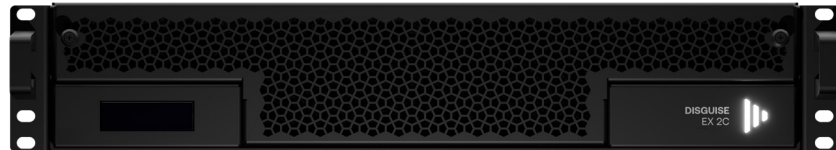
Performance specifications listed here outline the max amount of video layers that are achievable on a single EX 2. These can fluctuate in future releases.

# EX 2C



## THE GATEWAY TO DISGUISE

The EX 2C 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 3.84TB <sup>AS, F</sup>
- 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 24.4"	310mm 12.2"	850mm 33.46"
<b>Unit Dimensions</b>	441mm 17.4"	88.4mm 3.5"	645.25mm 25.4"
<b>Unit + Rack Handles</b>	483.6mm 19"	88.4mm 3.5"	677.5mm 26.7"
<b>Rack Depth</b>	-	-	677.5mm 26.7"
<b>Unit Weight</b>		11.4kg 25.1lbs	
<b>Packed Unit Weight</b>		21.4kg (est) 47.1lbs (est)	

# EX 2C

## 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

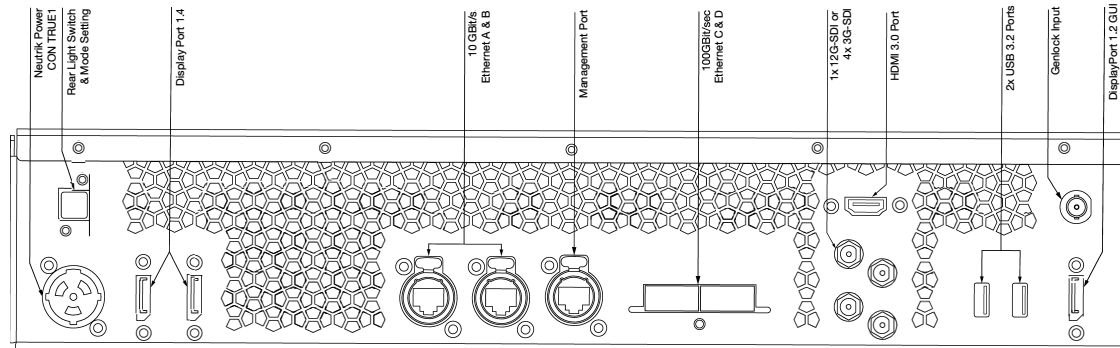
**Environmental Tolerances:** Temperature: 5-35°C (40°-95°F) / Humidity: 20%-80% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

**Mounting System:** 2U 19" rack mount

**OS:** 1x Internal Storage Drive

**Storage:** 1.92TB Removable NVMe SSD (default)

**Memory:** 64GB RAM (4x 16GB)



## SYSTEM CONNECTIVITY I/O

### Video Output:

- 1x DisplayPort 1.4 (GUI)
- 2x DisplayPort 1.4 (Outputs)

### Video Input:

 Up to 1x 4K DCI input or 4x Full-HD inputs via:

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

# EX 2C

## FULL HD PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	31 MB/s	55
HAP 60	62 MB/s	45
HAPQ 30	61.25 MB/s	50
HAPQ 60	122.5 MB/s	38
Animation 30	187.25 MB/s	40
Animation 60	374.5 MB/s	25
TIFF Sequence 30	237 MB/s	39
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	17
ProRes 422 60	302 MB/s	8
ProRes HQ 30	232 MB/s	14
ProRes HQ 60	464 MB/s	7
ProRes 4444 30	348 MB/s	9
ProRes 4444 60	696 MB/s	5

## 4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	21
HAP 60	264 MB/s	16
HAPQ 30	261.25 MB/s	20
HAPQ 60	522.5 MB/s	16
Animation 30	798.25 MB/s	12
Animation 60	1596.5 MB/s	5
NotchLC 30	331.5 MB/s	15
NotchLC 60	663 MB/s	7
ProRes 422 30	654 MB/s	5
ProRes 422 60	1308 MB/s	2
ProRes HQ 30	991 MB/s	4
ProRes HQ 60	1982 MB/s	2
ProRes 4444 30	1490 MB/s	2
ProRes 4444 60	2980 MB/s	1

## 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	6
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	3
TGA Sequence, 8-bit, RGB, 30	759 MB/s	12
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	12
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	5

Testing completed on r28 194541

Performance specifications listed here outline the max amount of video layers that are achievable on a single EX 2C. These can fluctuate in future releases.

# EX 2C

## CAPTURE LATENCY

The following table provides data on how many frames of latency the EX 2C requires from capture to output.

### EX 2C 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

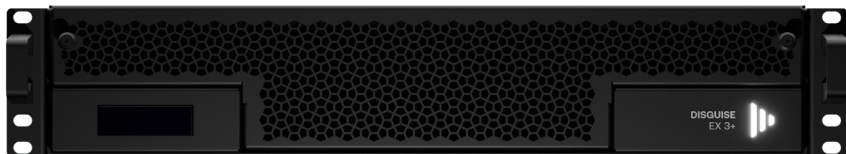


# EX 3+



## 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 24.4"	310mm 12.2"	850mm 33.46"
<b>Unit Dimensions</b>	441mm 17.4"	88.4mm 3.5"	645.25mm 25.4"
<b>Unit + Rack Handles</b>	483.6mm 19"	88.4mm 3.5"	677.5mm 26.7"
<b>Rack Depth</b>	-	-	677.5mm 26.7"
<b>Unit Weight</b>		11.5kg 25.35lbs	
<b>Packed Unit Weight</b>		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

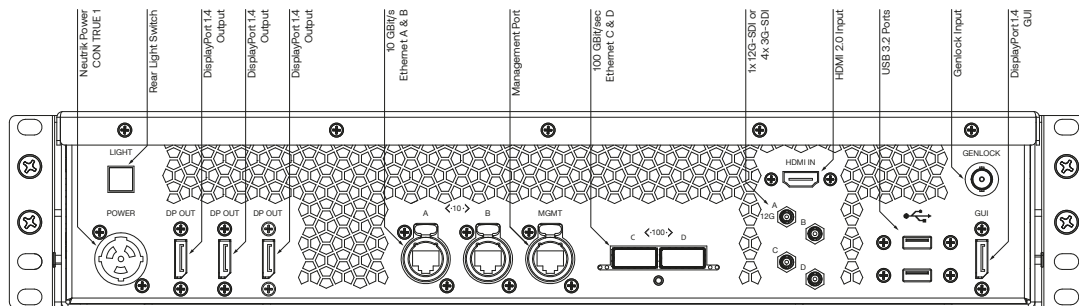
**Environmental Tolerances:** Temperature: 5-35°C (40°-95°F) / Humidity: 20-80% (non-condensing) / Altitude: 0-2700m (0-8850 ft)

**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:

- 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

# EX 3

BRING PIXEL-PERFECT EXPERIENCES TO LIFE

EX 3 is a video playback and pixel-perfect mapping solution designed specifically for immersive experiences and fixed installations.



## WARRANTIES & SUPPORT

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

## BUNDLED ACCESSORIES

Mouse, Keyboard, Power Cable (IEC x2: USA/EU/UK), Hardware Guide, Rear Support, Slide Rail Kit.

## UPGRADES

(AS - At Sale, RTM- Return to Manufacturer)

- Storage Upgrade 7.68TB <sup>AS, RTM</sup>
- Storage Upgrade 15.35TB <sup>AS, RTM</sup>
- Storage Upgrade 30TB <sup>AS, RTM</sup>

## PHYSICAL SPECIFICATIONS

	W	H	D
<b>Packed Dimensions</b>	635mm 25"	325mm 12.8"	975mm 38.39"
<b>Unit Dimensions</b>	438.5mm 17.26"	88.5mm 3.42"	788.8mm 31.06"
<b>Unit + Rack Handles</b>	483.5mm 19.03"	-	821.8mm 32.35"
<b>Rack Depth</b>	-	-	914.6mm 36.01"
<b>Unit Weight</b>		20.5kg 45.2lbs	
<b>Packed Unit Weight</b>		35kg 77.16lbs	

# EX 3

## HARDWARE SPECIFICATIONS

**Voltage:** 100-240VAC, 50-60Hz\*

**Power Connection:** IEC

**Power Consumption:** 485W

**Heat Dissipation Peak:** 1,653 BTU/hr

**Max Decibel Rating:** 66dB

**Operating System:** Windows 10 Enterprise GAC

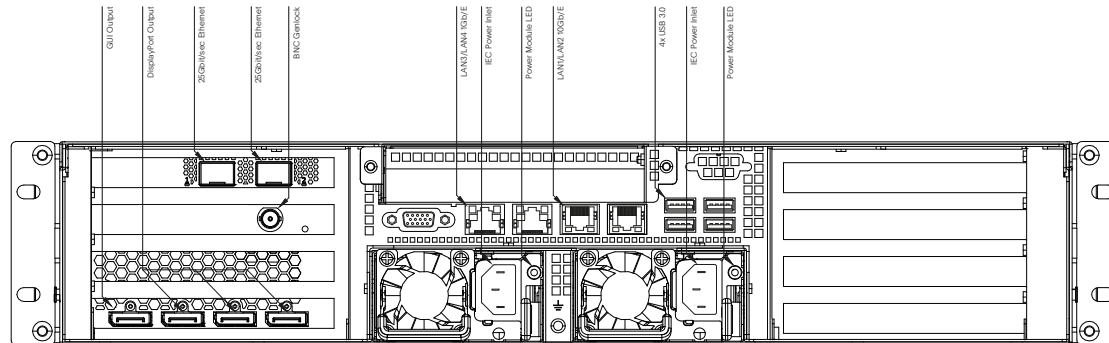
**Environmental Tolerances:** Temperature: 5-30°C (40°-86°F) / Humidity: 20%-80% (non-condensing) / Altitude: 0-8850 ft (0-2700m)

**OS:** 1x 2TB SSD

**Storage:** 1x 3.84TB Removable NVMe SSD

**Memory:** 96GB RAM (12x 8GB)

**Mounting System:** 2U 19" rack mount



## SYSTEM CONNECTIVITY I/O

### Video Output:

- 1x Displayport 1.4 (GUI)
- 3x 4K outputs using DisplayPort 1.4

### Video Input:

- 0 - video input via NDI only

### General Network:

- 2x 1Gb/sec Ethernet
- 2x 10Gb/sec Ethernet

**High Speed Network:** 2x 25Gb/sec Ethernet (SFP28)

**Data/Peripherals:** 4x USB 3.0

**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	34
HAP 60	62 MB/s	30
HAPQ 30	61.25 MB/s	29
HAPQ 60	122.5 MB/s	17
Animation 30	187.25 MB/s	12
Animation 60	374.5 MB/s	6
TIFF Sequence 30	237 MB/s	9
TIFF Sequence 60	474 MB/s	4
NotchLC 30	78.375 MB/s	24
NotchLC 60	156.75 MB/s	13
ProRes 422 30	151 MB/s	9
ProRes 422 60	302 MB/s	4
ProRes HQ 30	232 MB/s	2
ProRes HQ 60	464 MB/s	1
ProRes 4444 30	348 MB/s	2
ProRes 4444 60	696 MB/s	1

## 4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
HAP 30	132 MB/s	15
HAP 60	264 MB/s	8
HAPQ 30	261.25 MB/s	8
HAPQ 60	522.5 MB/s	4
Animation 30	798.25 MB/s	3
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	6
NotchLC 60	663 MB/s	3
ProRes 422 30	654 MB/s	7
ProRes 422 60	1308 MB/s	3
ProRes HQ 30	991 MB/s	2
ProRes HQ 60	1982 MB/s	1
ProRes 4444 30	1490 MB/s	1
ProRes 4444 60	2980 MB/s	0

## 4K DCI PLAYBACK

Video codec & frame rate	Content data rate	Max layers
DPX Sequence, 8-bit, RGB, 30	759 MB/s	3
DPX Sequence, 8-bit, RGB, 60	1518 MB/s	1
DPX Sequence, 10-bit, RGB, 30	1011 MB/s	2
DPX Sequence, 10-bit, RGB, 60	2022 MB/s	1
TGA Sequence, 8-bit, RGB, 30	759 MB/s	3
TGA Sequence, 8-bit, RGB, 60	1518 MB/s	2
TGA Sequence, 8-bit, RGBA, 30	1011 MB/s	2
TGA Sequence, 8-bit, RGBA, 60	2022 MB/s	1
TIFF Sequence, 8-bit, RGB, 30	759 MB/s	3
TIFF Sequence, 8-bit, RGB, 60	1518 MB/s	2
TIFF Sequence, 8-bit, RGBA, 30	1011 MB/s	2
TIFF Sequence, 8-bit, RGBA, 60	2022 MB/s	0

Testing completed on r24 98098

ProRes testing completed on r27.8 1919665

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.