

Cinema 4K-RGB Specifications

Learn about the product specifications. Due to continuing research, specifications are subject to change without notice.

Display specifications

Learn the display specifications of the Cinema 4K-RGB projectors.

Panel resolution and refresh rate

Pixel format (H x V square pixels)	4096 x 2160
Processing path	2K: 23.97 to 120 fps 4K: 23.97 to 48 fps

Achievable brightness (measured at screen center)

Ambient Temperature	Nominal Brightness (with standard high brightness lens)			
	CP4315-RGB	CP4320-RGB	CP4325-RGB	CP4330-RGB
20°C to 25°C	Up to 15000 lumens	Up to 20000 lumens	Up to 25000 lumens	Up to 30000 lumens

Achievable contrast ratio

450:1 ANSI
2000:1 using HB projection lens
6000:1 using UHC projection lens

Color and grayscale

Displayable colors	35.2 trillion
Grayscale resolution	45 bits total linear, 15 bits per RGB component

Nominal white point

$x = 0.314 \pm 0.006$

$y = 0.351 \pm 0.006$

Gamma

Theater (nominal)	2.6 ± 5%
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Control signal compatibility

Learn the control signal compatibility for the projector.

Ethernet port

Interface	10Base-T / (IEEE 802.3) / 100BASE-TX (IEEE 802.3u) / 1000BASE-TX (IEEE 802.3ab)
Connector	Female RJ-45
Bit rate	1000 Mbps

eSATA/USB 2.0 ingest

Interface	USB 2.0/SATA revision 2.0
Connector	USB Type "A"/eSATA
Bit rate	480 Mbps/3.0 Gbps
Available power for devices	2A @ 5V (TBC)

USB 3.0 ingest

Interface	USB 3.0
Connector	USB Type "A"
Bit rate	5.0 Gbps
Available power for devices	2A @ 5V (TBC)

GPIO port

Interface	Opto-LED inputs, relay outputs
Number of I/O lines	16 - 4 inputs, 4 outputs, 1 health signal output
Connector	Terminal blocks
Wire size accepted	28-20 AWG
GPI diode forward current	5mA nominal, 50mA maximum
GPI diode forward voltage	1.1V nominal, 1.4V maximum (@ 5mA)

GPI relay continuous current	1A
GPO relay output rating	60V
Output supply voltage	5VDS @ 200 mA

3D port

Interface	Proprietary 3D connector
Connector	15-pin subminiature D, female
Bit rate	115,200 bps
Flow control	Software
Data format	1 start bit, 8 data, 1 stop bit, no parity
Communication protocol	RS232 and GPIO

AES3 audio output

Interface	16-Channel AES3 Digital Audio
Connector	RJ-45

VGA user interface display

Interface	VGA
Connector	15-pin high density subminiature D, female

DVI user interface display

Interface	DVI
Connector	24-pin DVI-I female

HDMI

Interface	HDMI v1.4A
Connector	HDMI Type A

Power specifications

CP4315-RGB

- Main Input: 200-240V ~, 50-60 Hz, 10A
- UPS Input: 100-240V ~, 50-60 Hz, 8A

CP4320-RGB

- Main Input: 200-240V ~, 50-60 Hz, 12A
- UPS Input: 100-240V ~, 50-60 Hz, 9A

CP4325-RGB

- Main Input: 200-240V ~, 50-60 Hz, 20A
- UPS Input: 100-240V ~, 50-60 Hz, 10A

CP4330-RGB

- Main Input: 200-240V ~, 50-60 Hz, 15A
- UPS Input: 100-240V ~, 50-60 Hz, 10A

Physical specifications

Learn the dimensions and weight of the Cinema 4K-RGB projectors.

Item	CP4325-RGB	CP4315-RGB, CP4320-RGB, CP4330-RGB
Size (L x W x H) (without the lens and with feet retracted)	944 x 711 x 553 mm 37.2 x 28 x 21.8 inches	
Weight (installed, without the lens)	130 kg (285 lbs)	123 kg (271 lbs)
Shipping weight	155 kg (342 lbs)	148 kg (326 lbs)
Touch panel (W x H x D)	248.2 mm x 166.8 mm x 36.3 mm 9.77 in x 6.57 in x 1.43 in	

Orientation and alignment

Learn about the orientation and alignment specifications of the Cinema 4K-RGB projectors.

Orientation

The projectors are designed to operate in a non-inverted, landscape orientation, with all four feet on a level surface.

Alignment

The projectors are designed to operate within the following alignment angles:

Alignment	Permitted Angle
Front-to-back tilt	+5° (upwards) to -15° (downwards)
Side-to-side tilt	+3° to -3°

Touch panel specifications

Learn the specifications of the touch panel.

Type of Display	Color LCD, backlit
Display Size	256.54 mm (10.1 inches) diagonal
Display Resolution (H x V pixels)	1280 x 800
Maximum Dimensions (W x H x D)	248.2 mm x 166.8 mm x 36.3 mm (9.77 in x 6.57 in x 1.43 in)
Communication Interface with Projector	VGA/USB
Power Requirement	6W (12 V @ 500 mA)
Interface Connector	VGA/USB/ Power on custom cable

Light source specifications

Learn about the specifications of the direct-coupled laser light source.

Self-contained, fully sealed laser optical sub-system (LOS)
Discrete Red, Green, and Blue laser diodes

Accessories

Learn about accessories that are available for the Cinema 4K-RGB projectors.

Projection lenses

CP4325-RGB

Description	Part Number
0.90:1 HB fixed	38-809071-XX
1.13-1.66:1 DLPCine HB zoom	108-342100-XX
1.31-1.85:1 DLPCine HB zoom	108-335102-XX
1.45-2.17:1 DLPCine HB zoom	108-336103-XX
1.63-2.71:1 DLPCine HB zoom	108-337104-XX
1.95-3.26:1 DLPCine HB zoom	108-338105-XX
2.71-3.89:1 DLPCine HB zoom	108-278101-XX
3.89-5.43:1 DLPCine HB zoom	108-279101-XX
1.13-1.66:1 DLPCine UHC zoom	163-103105-XX
1.31-1.85:1 DLPCine UHC zoom	163-104106-XX
1.45-2.17:1 DLPCine UHC zoom	163-105107-XX

Description	Part Number
1.63-2.71:1 DLPCine UHC zoom	163-106108-XX
1.95-3.26:1 DLPCine UHC zoom	163-107109-XX

CP4315-RGB, CP4320-RGB, CP4330-RGB

Projection Lens (Throw Ratio 4K)	Part Number
0.90:1 HB fixed lens	38-809071-XX
1.13-1.66:1 DLPCine HB zoom lens	108-342100-XX
1.31-1.85:1 DLPCine HB zoom lens	108-335102-XX
1.45-2.17:1 DLPCine HB zoom lens	108-336103-XX
1.63-2.71:1 DLPCine HB zoom lens	108-337104-XX
1.95-3.26:1 DLPCine HB zoom lens	108-338105-XX
2.71-3.89:1 DLPCine HB zoom lens	108-278101-XX
3.89-5.43:1 DLPCine HB zoom lens	108-279101-XX
1.13-1.66:1 DLPCine UHC zoom lens	163-103105-XX
1.31-1.85:1 DLPCine UHC zoom lens	163-104106-XX
1.45-2.17:1 DLPCine UHC zoom lens	163-105107-XX
1.63-2.71:1 DLPCine UHC zoom lens	163-106108-XX
1.95-3.26:1 DLPCine UHC zoom lens	163-107109-XX
2.71-3.89 DLPCine UHC zoom lens	163-108100-XX

Filters and coolant

Description	Part Number
Radiator Air Filter	003-006463-XX
Light Engine Air Filter	003-006464-XX
Coolant Propylene Glycol 740	003-005179-XX

UPS power cord (optional)

Description	Part Number
North America 125V/15A	108-382104-XX
Japan 125V/12A	108-371102-XX
China 250V/10A	108-373104-XX
UK 250V/10A	108-388100-XX
EU/Korea 250V/10A	108-390103-XX

Description	Part Number
Australia 250V/10A	108-392105-XX
South Africa 250V/10A	108-487100-XX

Miscellaneous

Description	Part Number
Adjustable Rack Stand	108-416102-XX
Rack Stand Adapter Plates	163-101103-XX
Exhaust Duct	163-102104-XX
Christie IMB-S3	153-100102-XX
Christie NAS-S3	153-101103-XX
Christie NAS-S2	138-101103-XX

Environment

Learn about the environment requirements for the Cinema 4K-RGB projectors while operating and not operating.

Operating environment

Item	Description
Temperature	10°C to 35°C 50°F to 95°F
Humidity (non-condensing)	10% to 80%
Altitude	0 - 3000 meters 0 - 9842 feet
Optimal maximum ambient temperature	25°C 77°F

Non-operating environment

Item	Description
Temperature	-25°C to 70°C (-13°F to 158°F)
Humidity (non-condensing)	0% to 95%

Regulatory

This product conforms to the latest regulations and standards related to product safety, environmental, and electromagnetic compatibility (EMC) requirements.

Safety

- ANSI/UL 60950-1 – Information Technology Equipment – Safety – Part 1: General Requirements
- CAN/CSA C22.2 No. 60950-1-07 – Information Technology Equipment – Safety – Part 1: General Requirements
- IEC/EN 60825-1 – Safety of Laser Products – Part 1: Equipment Classification and Requirements
- IEC 60950-1 IEC/EN 60950-1 – Information Technology Equipment – Safety – Part 1: General Requirements
- IEC/EN 62471-5 – Photobiological Safety of Lamps and Lamp Systems – Part 5: Image projectors

Electro-magnetic compatibility

Emissions

- CAN ICES-003 (A)/NMB-003 (A) – Information Technology Equipment (Including Digital Apparatus) – Limits and Methods of Measurement
- CISPR 32/EN 55032, Class A – Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements
- FCC CFR47, Part 15, Subpart B, Class A – Unintentional Radiators
- IEC 61000-3-2/EN61000-3-2: Limits for harmonic current emissions for equipment with input current ≤ 16 A
- IEC 61000-3-3/EN61000-3-3: Limitations of Voltage Changes, Voltage Fluctuations, and Flicker input current ≤ 16 A
- IEC 61000-3-11/EN61000-3-11: Limitations of Voltage Changes, Voltage Fluctuations, and Flicker for equipment with rated current ≤ 75 A
- IEC 61000-3-12/EN61000-3-12: Limits for harmonic current emissions for equipment for systems with input current > 16 A and ≤ 75 A per phase

Immunity

- CISPR 24/EN55024 EMC Requirements – Information Technology Equipment

Environmental

- China Ministry of Information Industry (along with 7 other Government Agencies) Order No.32 (01/2016) on the control of pollution caused by electronic information products, hazardous substances concentration limits (GB/T 26572 - 2011), and the applicable product marking requirement (SJ/T 11364 - 2014).

- EU Directive (2011/65/EU) on the restriction of the uses of certain hazardous substances (RoHS) in electrical and electronic equipment and the applicable official amendment(s).
- EU Directive (2012/19/EU) on waste and electrical and electronic equipment (WEEE) and the applicable official amendment(s).
- Regulation (EC) No. 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH) and the applicable official amendment(s).

Product documentation

For installation, setup, and user information, see the product documentation available on the Christie website. Read all instructions before using or servicing this product.

1. Access the documentation from the Christie website:

CP4315-RGB

- Go to <http://bit.ly/30mhBGx> or <https://www.christiedigital.com/en-us/cinema/cinema-products/digital-cinema-projectors/christie-cp4315-rgb>
- Scan the QR code using a QR code reader app on a smartphone or tablet.



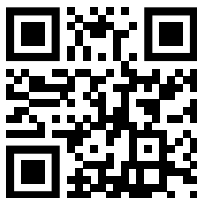
CP4320-RGB

- Go to <http://bit.ly/2Z6F7uA> or <https://www.christiedigital.com/en-us/cinema/cinema-products/digital-cinema-projectors/christie-cp4320-rgb>
- Scan the QR code using a QR code reader app on a smartphone or tablet.



CP4325-RGB

- Go to <http://bit.ly/2BjQLBq> or <https://www.christiedigital.com/en-us/cinema/cinema-products/digital-cinema-projectors/christie-cp4325-rgb>
- Scan the QR code using a QR code reader app on a smartphone or tablet.



CP4330-RGB

- Go to <http://bit.ly/2IRKIwW> or <https://www.christiedigital.com/en-us/cinema/cinema-products/digital-cinema-projectors/christie-cp4330-rgb>
- Scan the QR code using a QR code reader app on a smartphone or tablet.



2. Switch to the **Downloads** tab.

Related documentation

Additional information on the projector is available in the following documents.

- *Cinema 4K-RGB Installation and Setup Guide (P/N: 020-102710-XX)*
- *Cinema 4K-RGB User Guide (P/N: 020-102712-XX)*
- *Cinema 4K-RGB Product Safety Guide (P/N: 020-102711-XX)*
- *Cinema 4K-RGB Service Guide (P/N: 020-102713-XX)*
- *CineLife Serial Commands Guide (P/N: 020-102714-XX)*