

Velvet CorePlus (Internal Power) LED Display System Specifications

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

Physical specifications

Learn the physical specifications for the tiles and the power supply.

Velvet CorePlus (Internal Power) LED Display System

	LED014-CP-I	LED019-CP-I	LED024-CP-I	LED030-CP-I	LED040-CP-I
Tile dimensions (W x H x D)	476.2 mm x 535.7 mm x 80.5 mm (18.7 in x 21.1 in x 3.17 in)				
Tile resolution (W x H)	115,200 pixels 320 px x 360 px 8:9 aspect ratio	43,200 pixels 240 px x 270 px 8:9 aspect ratio	41,472 pixels 192 px x 216 px 8:9 aspect ratio	28,800 pixels 160 px x 180 px 8:9 aspect ratio	16,200 pixels 120 px x 135 px 8:9 aspect ratio
Tile weight	9.5 kg (20.9 lb)				
Service access	Front or rear				
LED module dimensions (W x H)	238.1 mm x 178.6 mm (9.35 in x 7.03 in)				
LED module resolution	80 px x 120 px	60 px x 90 px	48 px x 72 px	40 px x 60 px	30 px x 45 px

Controller

Description	E500 controller	E600 controller
Dimensions (W x H x D)	487 mm x 88 mm x 343 mm (19.2 in x 3.5 in x 13.5 in)	482.6 mm x 89 mm x 372 mm (19.0 in x 3.5 in x 14.6 in)

Description	E500 controller	E600 controller
Weight	Shelf: 5.3 kg (11.7 lbs)	Shelf: 4.1 kg (9.0 lbs)

Power requirements

Learn the power requirements for the tiles and the power supply.

Input ratings and power consumption for LED tiles

Input ratings	
LED014-CP-I	100-170 V~, 50/60 Hz, 2.5 A (Maximum: 15 A, maximum of 6 tiles) 170-240 V~, 50/60 Hz, 1.2 A (Maximum: 14.4 A, maximum of 12 tiles) Typical: 73 W per panel, Maximum: 220 W per panel
LED019-CP-I	100-170 V~, 50/60 Hz, 2.5 A (Maximum: 15 A, maximum of 6 tiles) 170-240 V~, 50/60 Hz, 1.2 A (Maximum: 14.4 A, maximum of 12 tiles) Typical: 73 W per panel, Maximum: 220 W per panel
LED024-CP-I	100-170 V~, 50/60 Hz, 1.6 A (Maximum: 16 A, maximum of 10 tiles) 170-240 V~, 50/60 Hz, 0.8 A (Maximum: 16 A, maximum of 20 tiles) Typical: 47 W per panel, Maximum: 140 W per panel
LED030-CP-I	100-170 V~, 50/60 Hz, 1.6 A (Maximum: 16 A, maximum of 10 tiles) 170-240 V~, 50/60 Hz, 0.8 A (Maximum: 16 A, maximum of 20 tiles) Typical: 47 W per panel, Maximum: 140 W per panel
LED040-CP-I	100-170 V~, 50/60 Hz, 1.6 A (Maximum: 16 A, maximum of 10 tiles) 170-240 V~, 50/60 Hz, 0.8 A (Maximum: 16 A, maximum of 20 tiles) Typical: 47 W per panel, Maximum: 140 W per panel

Input rating for the controller

Input rating	
E500	100-250 V~, 50/60 Hz, 1.5 A, 75 watts
E600	100-240 V~, 50/60 Hz, 1.5 A, 75 watts

Environment requirements

Learn about the environment requirements for the product while operating and not operating.

Non-operating environment

Item	Description
Tile temperature	-10°C to 50°C (14°F to 122°F)
Tile humidity (non-condensing)	10% to 90%

Operating environment

Item	Description
Tile temperature	0°C to 40°C (32°F to 104°F)
Tile humidity (non-condensing)	10% to 90%
Altitude	0 to 3000 meters
Controller temperature	-20°C to 60°C (-4°F to 140°F)
Controller humidity	10% to 90%

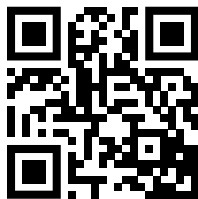
Display specifications

	LED014-CP-I	LED019-CP-I	LED024-CP-I	LED030-CP-I	LED040-CP-I
Pixel pitch	1.48 mm	1.98 mm	2.48 mm	2.976 mm	3.968 mm
Pixel size	1.0 mm x 1.0 mm	1.0 mm x 1.0 mm	2.1 mm x 2.1 mm	2.1 mm x 2.1 mm	2.1 mm x 2.1 mm
Pixel configuration	1R 1G 1B				

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:
 - Go to this URL: <http://bit.ly/2qXBAdX> or <https://www.christiedigital.com/en-us/digital-signage/products/led-tiles/coreplus-series>.
 - Scan the QR code using a QR code reader app on a smartphone or tablet.



2. On the product page, select the model and switch to the **Downloads** tab.

Related documentation

Additional information on the Velvet CorePlus (Internal Power) LED Display System is available in the following documents.

- *CorePlus (Internal Power) Product Safety Guide (P/N: 020-102801-XX)*
- *CorePlus (Internal Power) Installation and Setup Guide (P/N: 020-102791-XX)*
- *E500 LED Display Controller Serial Commands Technical Reference (P/N: 020-102458-XX)*

Regulatory

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

Safety

- CAN/CSA C22.2 No. 60950-1
- ANSI/UL 60950-1 - Information Technology Equipment – Safety – Part 1: General Requirements
- IEC 60950-1 IEC/EN 60950-1 - Information Technology Equipment – Safety – Part 1: General Requirements
- EN 60950-1
- IEC 62471-1 - Photobiological safety of lamps and lamp systems

Electro-magnetic compatibility

Emissions

- FCC CFR47, Part 15, Subpart B, Class A - Unintentional Radiators
- CAN ICES-003 (A)/NMB-003 (A) - Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement
- CISPR 32/EN 55032, Class A
- IEC 61000-3-2/EN61000-3-2: Limits for Harmonic Current Emissions

Immunity

- IEC 61000-3-3/EN61000-3-3
- IEC/EN61000
- IEC 61000-4-2/EN61000-4-2
- IEC 61000-4-3/EN61000-4-3
- IEC 61000-4-4/EN61000-4-4
- IEC 61000-4-5/EN61000-4-5
- IEC 61000-4-6/EN61000-4-6
- IEC 61000-4-8/EN61000-4-8
- IEC 61000-4-11/EN61000-4-11

Environmental

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 Regulation (EC) No. 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH) 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).