

# Velvet Core 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 Core LED Display System

	LED012-C-I	LED015-C-I	LED018-C-I	LED025-C-I
Tile dimensions (W x H x D)	600 mm x 337.5 mm x 70mm (23.6 in x 13.3 in x 2.75 in)			
Tile resolution (W x H)	129,600 pixels 480 px x 270 px 16:9 aspect ratio	82,944 pixels 384 px x 216 px 16:9 aspect ratio	57,600 pixels 320 px x 180 px 16:9 aspect ratio	32,400 pixels 240 px x 135 px 16:9 aspect ratio
Tile weight	8.6 kg (19lb)			
Service access	Front			
LED module dimensions (W x H)	300 mm x 337.5 mm (11.8 in x 13.3 in)			
LED module resolution	240 px x 270 px	192 px x 216 px	160 px x 180 px	120 px x 135 px

### Controller

	E600 controller
Dimensions (W x H x D)	482.6 mm x 89 mm x 372 mm (19.0 in x 3.5 in x 14.6 in)
Weight	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
LED012-C-I	100-120 V~, 50/60 Hz, 1.8 A (Maximum: 10 A, maximum of 5 tiles) 200-240 V~, 50/60 Hz, 0.9 A (Maximum: 10 A, maximum of 10 tiles) Typical: 61 W per panel, Maximum: 182 W per panel
LED015-C-I	100-120 V~, 50/60 Hz, 1.8 A (Maximum: 10 A, maximum of 5 tiles) 200-240 V~, 50/60 Hz, 0.9 A (Maximum: 10 A, maximum of 10 tiles) Typical: 61 W per panel, Maximum: 182 W per panel
LED018-C-I	100-120 V~, 50/60 Hz, 1.8 A (Maximum: 10 A, maximum of 5 tiles) 200-240 V~, 50/60 Hz, 0.9 A (Maximum: 10 A, maximum of 10 tiles) Typical: 61 W per panel, Maximum: 182 W per panel
LED025-C-I	100-120 V~, 50/60 Hz, 1.1 A (Maximum: 10 A, maximum of 9 tiles) 200-240 V~, 50/60 Hz, 0.5 A (Maximum: 10 A, maximum of 18 tiles) Typical: 35 W per panel, Maximum: 106 W per panel

### Input ratings for the controller

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

## Environment requirements

Learn about the environments 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

	LED012-C-I	LED015-C-I	LED018-C-I	LED025-C-I
Pixel pitch	1.25 mm	1.5625 mm	1.875 mm	2.5 mm
Pixel size	1.0 mm x 1.0 mm 2.2 mm x 1.0 mm	1.0 mm x 1.0 mm	1.0 mm x 1.0 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 Digital Systems USA Inc. 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/2y75l04>  
<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 Core LED Display System is available in the following documents.

- *Core (Internal Power) Safety Guide (P/N: 020-001712-01)*
- *Core (Internal Power) Specifications Guide (P/N: 020-001737-01)*
- *E500 LED Display Controller Serial Commands Technical Reference (P/N: 020-102458-XX)*
- *E600 User Guide (P/N: 020-102717-XX)*

## Regulatory

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

## Safety

- IEC 60950-1: 2005 (2nd Edition) + A1:2009 + A2:2013
- ANSI/UL 60950-1- Information Technology Equipment - Safety :2014
- CAN/CSA-C22.2 No.60950-1-07, 2nd Edition + A1:2011 + A2:2014
- EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
- IS 13252 (Part 1): 2010+A1:2013+A2:2015
- K60950-1
- CNS13438, CNS14336-1, CNS15663

## Electro-magnetic compatibility

### Emissions

- ANSI C63.4:2014
- FCC PART 15, SUBPART B Class A - Unintentional Radiators
- ICES-003 issue 6 (2016), Class A
- EN55032 : 2015
- EN61000-3-2 Limits for Harmonic Current Emissions: 2014
- EN61000-3-3 : 2013
- Class A
- KN32

### Immunity

- CISPR 24: 2010
- EN55024:2010
- KN35 for Korea\*

## 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 Directive (2012/19/EU) on waste and electrical and electronic equipment (WEEE) and the applicable official amendment(s)
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and the applicable official amendment(s)