

MicroTiles LED Specifications

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

Physical specifications

Learn the physical specifications for MicroTiles LED.

LED tiles

	LED012-M4 LED012-M6	LED015-M4 LED015-M6
LED module dimensions (W x H x D)	240 mm x 90 mm x 15.7 mm (9.45 in x 3.54 in x 0.62 in)	
LED module resolution	192 px x 72 px	160 px x 60 px
Tile dimensions (W x H x D)	240 mm x 270 mm x 47 mm (9.45 in x 10.63 in x 1.85 in)	
Tile resolution (W x H)	41,472 pixels 192 px x 216 px	28,800 pixels 160 px x 180 px
Tile weight	2.2 kg (3.52 lb)	
Service access	Front service only	

LED wall controller

Parameter	Specification
Voltage	100-240 VAC
Current	1.0 A
Line frequency	50/60 Hz

Parameter	Specification
Dimensions (W x H x D)	285.5 mm x 220.2 mm x 42.8 mm (11.2 in x 8.7 in x 1.69 in)
Weight	1.5 kg (3.3 lb)

Octroller

All measurements include the attached heatsink.

Parameter	Specification
Dimensions (W x H x D)	200 mm x 194 mm x 93 mm (7.87 in x 7.63 in x 3.66 in)
Weight	1.84 kg (4.06 lb)

Remote Power Rack Shelf (P/N: 161-131106-XX)

Parameter	Specification
Dimensions (W x H x D)	485 mm x 133 mm x 395 mm (19.09 in x 5.24 in x 15.55 in)
Weight	Shelf: 11.5 kg (30.8 lbs) Rectifiers: 2.5 kg (6.7 lbs) per unit, four units maximum

Remote Power Rack Shelf (P/N: 161-147103-XX)

Parameter	Specification
Dimensions (W x H x D)	482.0mm x 88mm x 349.2mm (18.98 in x 3.46 in x 13.75 in)
Weight	Shelf: 10.5 kg (22.1 lbs) Rectifier: 1.8 kg (4.0 lbs) per unit, four units maximum

Power requirements

Learn the power requirements for MicroTiles LED.

LED wall controller

Input ratings	
Voltage	100-240 VAC
Current	1.0 A
Line frequency	50/60 Hz

Octroller

Input ratings	
Octroller	45-55 VDC (54 VDC nominal), 14 A (Maximum 8 tiles) Max: 65 W (per tile), 550 W (8 tiles)

LED tiles

The LED tiles are powered by the Octrollers over Ethernet cable.

Pixel pitch	Input ratings
1.25 mm	45-54 VDC, 1.66 A Max: 65 W per tile
1.5 mm	45-54 VDC, 1.66 A Max: 65 W per tile

Power ratings for the Remote Power Rack Shelf (P/N: 161-131106-XX)

Description	Details
Input voltage	120-230 VAC, 50-60 Hz 12A at 120VAC - 9.5A @ 230 VAC per rectifier (maximum four rectifiers installed)
Output	44-58 VDC (54 VDC nominal), 30A per output (with maximum four rectifiers installed)

The number of LED wall controllers that can be powered by a single Remote Power Rack Shelf depends on the voltage range of the input and the number of rectifiers. Consult your local Christie representative for further details.

Power ratings for the Remote Power Rack Shelf (P/N: 161-147103-XX)

Parameter	Requirement
Output	120-230 VAC, 50-60Hz 17A maximum @ 120VAC – 17A @ 230 VAC per rectifier (maximum four rectifiers installed)
Output	53.5 VDC nominal, 25A per output @ 230V input (with maximum four rectifiers installed) 53.5 VDC nominal, 12.5A per output @ 120V input (with maximum four rectifiers installed)

Environmental specifications

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

Non-operating environment

Item	Description	
LED Tile	Temperature	-25°C to 50°C (-13°F to 122°F)
	Humidity (non-condensing)	0% to 95%
LED wall controller	Temperature	-40°C to 70°C (-40°F to 158°F)

Item		Description
	Humidity (non-condensing)	0% to 95%
Octroller	Temperature	-40°C to 70°C (-40°F to 158°F)
	Humidity (non-condensing)	0% to 95%

Operating environment

Item		Description
LED Tile	Temperature	0°C to 40°C (32°F to 104°F)
	Humidity (non-condensing)	15% to 90%
LED wall controller	Temperature	5°C to 35°C (41°F to 95°F)
	Humidity (non-condensing)	10% to 80%
Octroller	Temperature	5°C to 40°C (41°F to 104°F)
	Humidity (non-condensing)	10% to 85%
Altitude		0 to 3000 meters

Remote Power Rack Shelf (P/N: 161-131106-XX)

Description	Details
Temperature	Operating: -10 to 35°C (14°F to 95°F) Storage: -40 to 85°C (-40 to 185°F)
Humidity (non-condensing)	Operating: 0% to 93% Non-operating: 0% to 95%
Elevation	-60 to 2000 m (-198 to 6600 feet)
Heat dissipation	<2196 BTU per hour (four PSU modules)
Acoustic	Maximum 66dB (four PSU modules)

Remote Power Rack Shelf (P/N: 161-147103-XX)

Description	Details
Temperature	Operating: -10 to + 50°C (14 to 122°F) Storage -40 to + 75°C (-40 to 167°F)
Humidity (non-condensing)	Operating 5% to 95%
Elevation	4000 m maximum (up to 13,100 feet)
Heat dissipation	2457 (BTU/hr) (with four PSU modules)
Acoustic	Maximum ≤ 60 dB with four PSU modules

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/2DE9cnu> or <https://www.christiedigital.com/en-us/digital-signage/products/led-tiles/microtiles-led>.
 - 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 this product is available in the following documents.

- *MicroTiles LED Product Safety Guide (P/N: 020-102824-XX)*
- *MicroTiles LED Installation and Setup Guide (P/N: 020-102825-XX)*
- *MicroTiles LED User Guide (P/N: 020-102835-XX)*
- *MicroTiles LED Serial Commands Guide (P/N: 020-103050-XX)*
- *Replacing LED modules in a MicroTiles LED array (P/N: 020-103059-XX)*
- *Removing the MicroTiles LED chassis (P/N: 020-102670-XX)*

Regulatory

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

Safety

- ANSI/UL 60950-1-2007 – Information Technology Equipment – Safety – Part 1: General Requirements
- CAN/CSA C22.2 No. 60950-1-07 – Information Technology Equipment – Safety – Part 1: General Requirements
- CAN/CSA-C22.2 No. 62368-1: 2014 (2nd Edition) – Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- EN 60950:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 – Information Technology Equipment – Safety – Part 1: General Requirements
- EN 62471:2008 (First Edition) – Photobiological Safety of Lamps and Lamp Systems

- IEC 60950-1:2005 (2nd Edition); + Amendment 1:2009 + Amendment 2:2013 – Information Technology Equipment - Safety - Part 1: General Requirements
- IEC/EN 62368-1: 2014 (2nd Edition) – Audio Video, IT & Communication Technology Equipment (AV/ICT) – Part 1: Safety Requirements.
- IEC 62471:2006 (First Edition) – Photobiological Safety of Lamps and Lamp Systems
- UL 62368-1: 2014 (2nd Edition) – Audio/video, information and communication technology equipment - Part 1: Safety requirements.

Electro-magnetic compatibility

Emissions

- CAN ICES-003 (A)/NMB-003 (A) – Information Technology Equipment (Including Digital Apparatus) – Limits and Methods of Measurement
- CISPR 32:2012/EN 55032:2012, 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
- IEC 61000-3-3/EN61000-3-3: Limitations of Voltage Changes, Voltage Fluctuations, and Flicker

Immunity

- CISPR 24:2010/EN55024:2010 EMC Requirements – Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurements

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).

Technical support

Technical support for Christie Enterprise products is available at:

- North and South America: +1-800-221-8025 or Support.Americas@christiedigital.com
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or Support.EMEA@christiedigital.com
- Asia Pacific (support.apac@christiedigital.com):
 - Australia: +61 (0)7 3624 4888 or tech-Australia@christiedigital.com

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