LSCC-G196C Bundled Display
Dual 2K Ultra Stretch 196" ULTRATHIN
Rev 1

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Design Review

	Name	Date
Design Completed By	Mike Reisinger	01/30/2025
Initial Review By	Anthony Gillespie	01/31/2025
Final Review By	XXXXXXX	XX/XX/XXXX

Project/System Information

Voltage that will be used to supply the wall	TBD – 110V Depicted
Number and type of circuits for the wall	TBD
Number and type of data cables to the wall	Qty 8 – Cat 5e or 6 Cables Required
LED cabinet service type (Front, rear, top, etc.)	Front
Installation type (Wall, floor, ceiling, suspended, etc.)	TBD
Mounting frame provided by	TBD – LG and Partner Mounts Available
Recommended 3rd party devices (Image processor, fiber transceivers, etc.)	TBD

LG Point of Contact Information

LG Sales Manager	Name	TBD
	Phone Number	TBD
	Email Address	TBD
LG Solution Architect	Name	Mike Reisinger
	Phone Number	972-249-7669
	Email Address	michael.reisinger@lge.com
LG Business Solutions Support	Phone Number	888-865-3026

System Integrator Point of Contact Information

SI Point of Contact	Name	TBD
	Phone Number	TBD
	Email Address	TBD
	Company Name	TBD

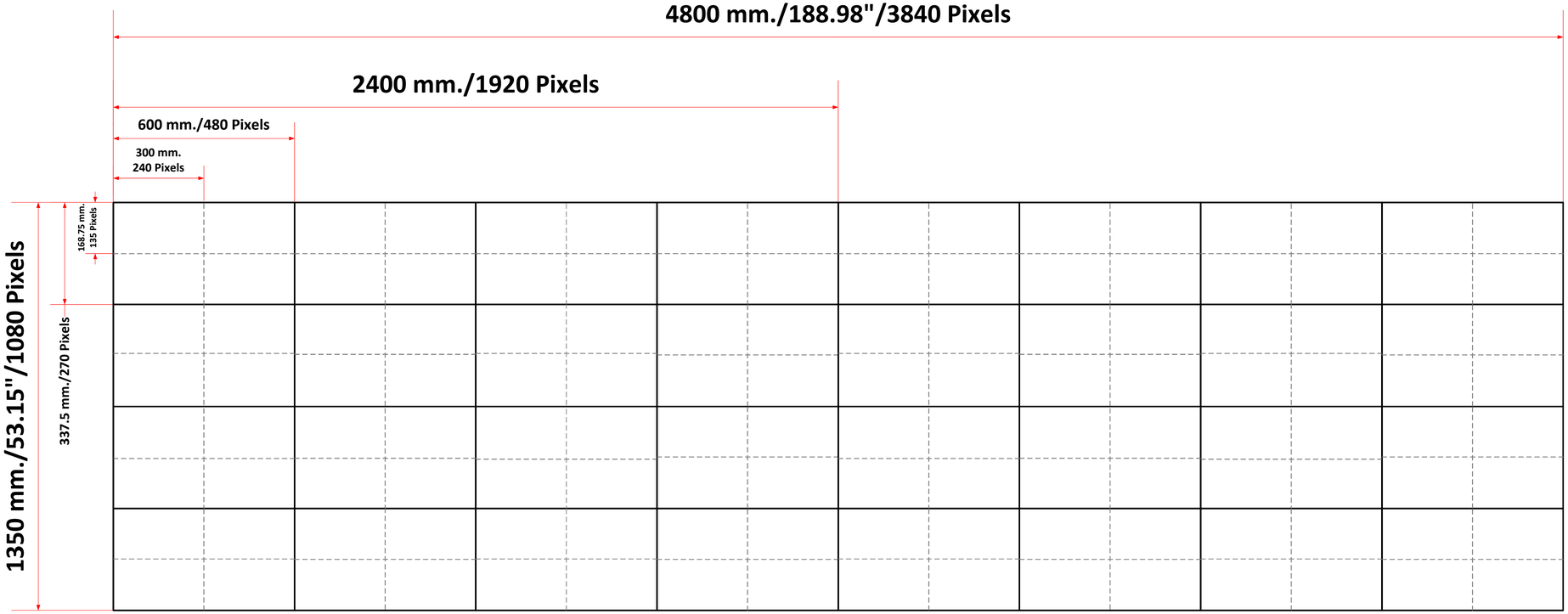
End User Information

End User Information	Name	TBD
	Phone Number	TBD
	Email Address	TBD
	Company Name	TBD

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LSCC-G196C – Screen Dimensions
8W x 4H of LSCC 1.2mm



LSCC 1.2mm Specifications

LSCC012-GZ

Physical Parameters	**Pixel Configuration**	3 In 1 SMD
	Pixel Pitch (mm)	1.25
	Module Resolution (WxH)	240 x 135
	Module Dimension (WxH, mm)	300 x 168.75
	Weight per Module (kg)	0.31
	No. of Modules per Unit Case (WxH)	2 x 2
	Unit Case Resolution (WxH)	480 x 270
	Unit Case Dimensions (WxHxD, mm)	600 x 337.5 x 33.6
	Unit Case Surface Area (m^2)	0.2
	Weight per Unit Case (kg/unit)	5.0
	Weight per Square Meter (kg/m^2)	24.69
	Physical Pixel Density ($pixels/m^2$)	640,000
	Unit Case Material	Die Casting Aluminum
	Service Access	Front
Optical Specifications	**Min. Brightness (After Calibration)**	800
	Color Temperature	3500 ~ 9000 (Default: 6500K)
	Visual Viewing Angle (HxV)	160 x 160
	Brightness Uniformity	97%
	Color Uniformity	±0.003CxCy
	Contrast Ratio	5000:1
	Processing Depth (bit)	14 (HDR10, HDR10 Pro)
Electrical Specifications	**Power Consumption (W/Unit, Max)**	112
	Power Consumption (W/Unit, Avg.)	37
	Power Consumption (W/m^2, Max)	553
	Power Supply (V)	100 - 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
	Operating Humidity	0 ~ 80%RH
Certification		CE,FCC,ETL, EMC Class-A, BS476 Part7 Class1, EN13501-1
Environment		RoHS, REACH

Total 8Wx4H Wall (Total 32 Cabinets):

*below info does not include mounting structure

Dimensions: 4800mm W x 1350 H x 33.6mm D
(188.98" W x 53.15" H x 1.32" D)

Weight: 160 kg/352.74 lbs

Power: (100V/240V)
Max: 3584W
Average: 1184W
BTUs per hour: 12229.12 Max – 4039.98 Avg

Resolution: 3840 Pixels W x 1080 Pixels H

Total Number of 8Wx4H LED Walls: 1

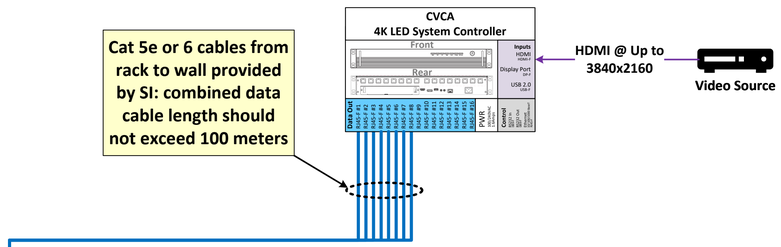
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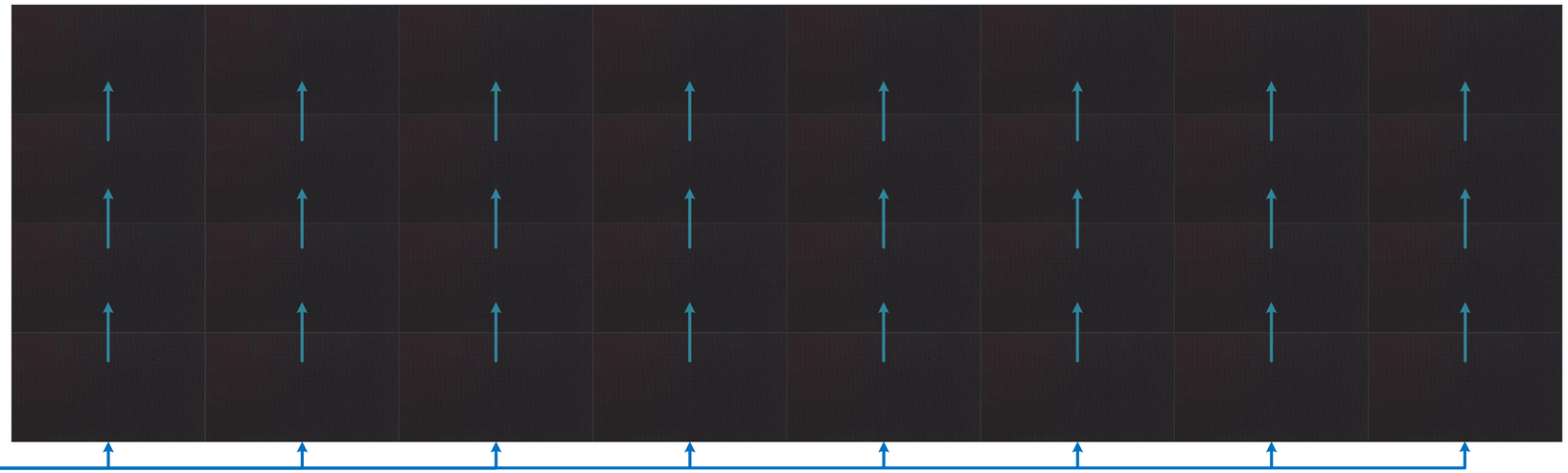
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LG Life's Good

LSCC-G196C Bundled Display				
Screen Dimensions				
DV LED			Product LSCC-G196C	REV 1
			SHEET	3 OF 13

LSCC-G196C – Data Mapping
8W x 4H of LSCC 1.2mm





Viewed From Front of Wall

Cable Legend

- HDMI or DP Cable
- Cat 5e or 6 Cable
- Interlink Data Cable



Setup PC or Laptop will connect to the LED controller over the network via wired or wireless connection to setup the system



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LSCC012-GZ

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	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
	Operating Humidity	0 ~ 80%RH
Certification		CE,FCC,ETL, EMC Class-A, BS476 Part7 Class1, EN13501-1
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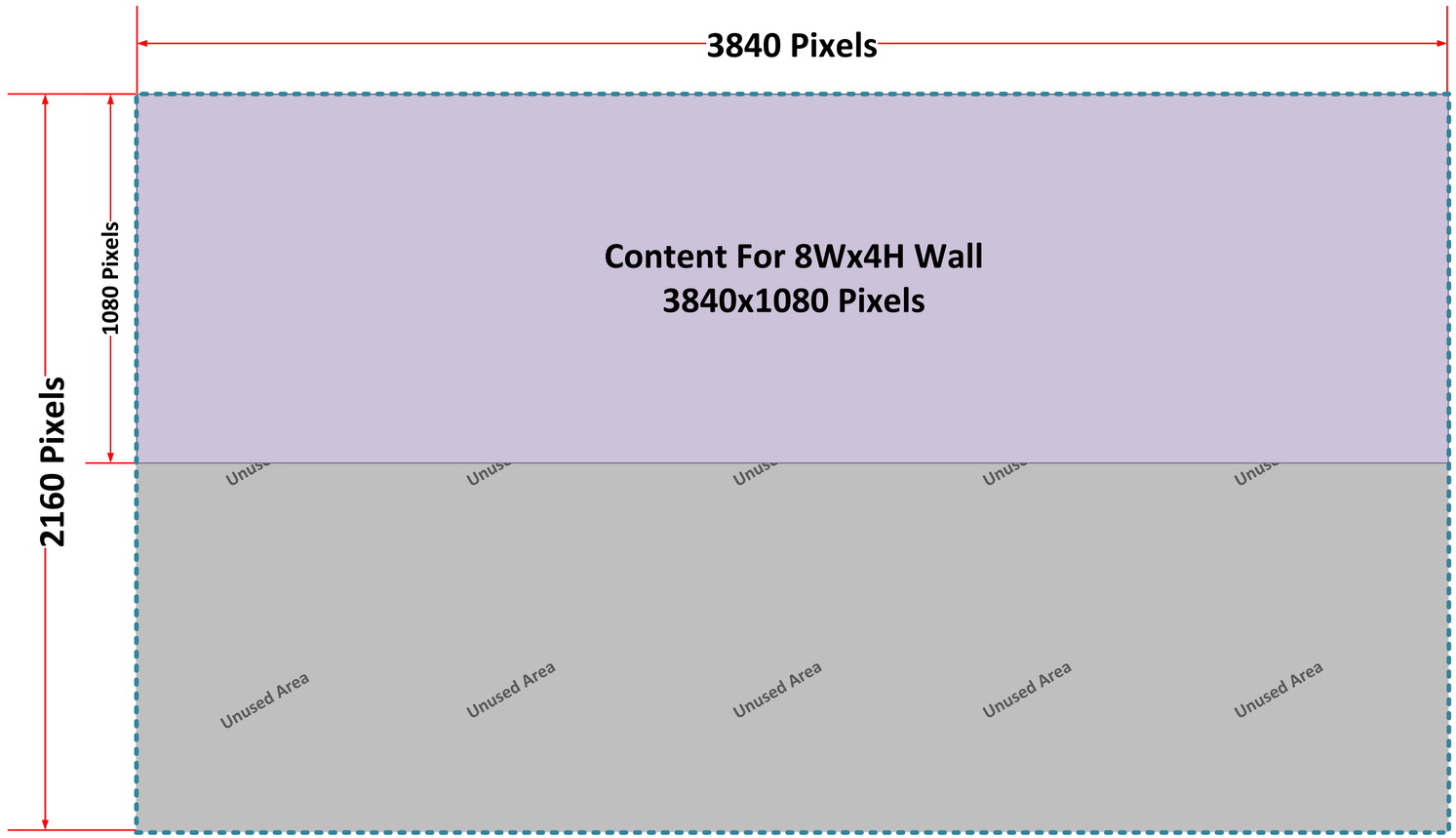
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LSCC-G196C Bundled Display				
Data Mapping				
DV LED			Product LSCC-G196C	REV 1
			SHEET	4 OF 13

LSCC-G196C – Content Mapping
8W x 4H of LSCC 1.2mm

Source Device/System 3840x2160 Output



Please note – The CVCA controller must be fed a standard resolution input; supported input resolutions are listed in the appendix pages of this document. The above content map depicts how the LED wall will line up to a standard 3840x2160 input from the source with scaling on the controller disabled.

LSCC 1.2mm Specifications

LSCC012-GZ

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	Module Dimension (WxH, mm)	300 x 168.75
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	Power Supply (V)	100 - 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
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LSCC-G196C Bundled Display

Content Mapping

DV LED

Product: LSCC-G196C

REV: 1

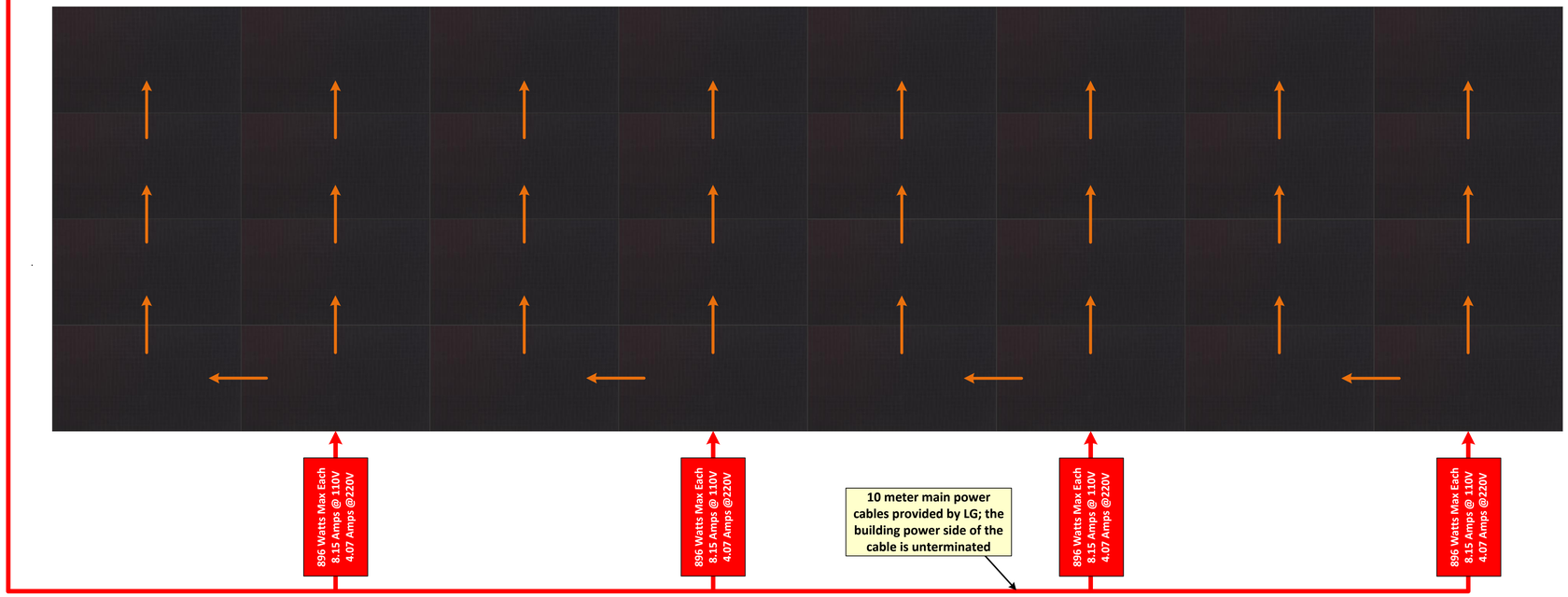
LSCC-G196C – Power Mapping
8W x 4H of LSCC 1.2mm

Cable Legend
- Power Cable
- Interlink Power Cable

Building Power Connections Near Wall

Max: 3584W – 32.58 Amps @110V – 16.29 Amps @220V

Average: 1184W – 10.76 Amps @110V – 5.38 Amps @220V



Viewed From Front of Wall

Please note – For the LSCC012-GZ, the operating power source must be 100- 240V, 50/ 60 Hz. One main power cable (3 x 2.5 mm²) can support a maximum of 19 panels at 220V and 11 panels at 110V.

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LSCC 1.2mm Specifications

LSCC012-GZ

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	Power Supply (V)	100 - 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
	Operating Humidity	0 ~ 80%RH
Certification		CE,FCC,ETL, EMC Class-A, BS476 Part7 Class1, EN13501-1
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LSCC-G196C Bundled Display

Power Mapping

DV LED

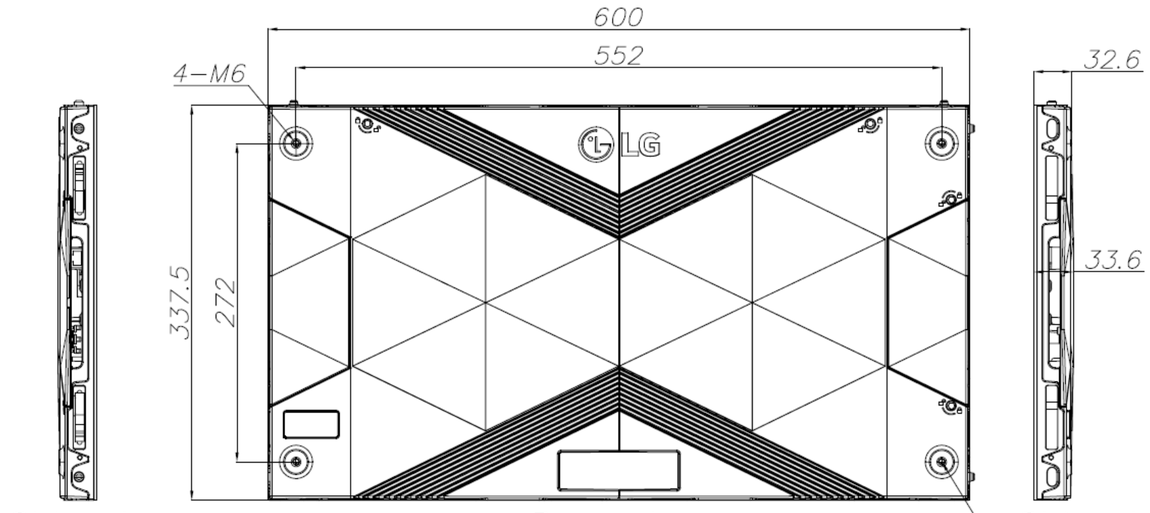
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REV: 1

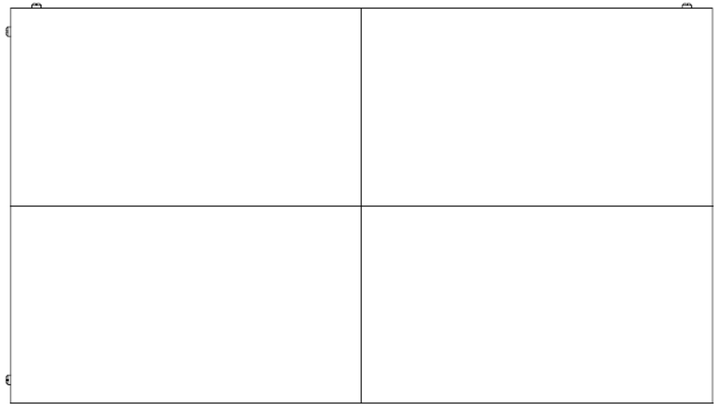
Cabinet Dimension
LSCC012-GZ



Bottom view



Side view Rear view Side view



Front view

Cabinet fixing hole position



Top view

LSCC 1.2mm Specifications

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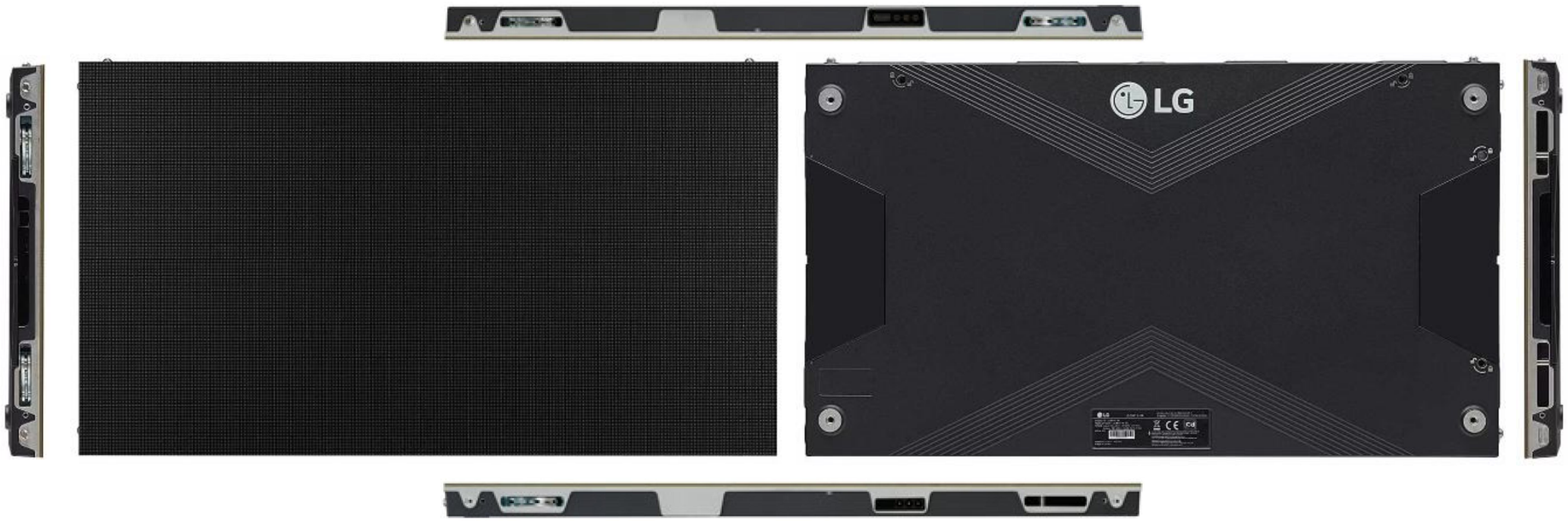
LSCC-G196C Bundled Display

LED Cabinet Dimensions

DV LED			Product LSCC012-GZ	REV 1
			SHEET	7 OF 13

Cabinet Images
LSCC012-GZ





LSCC 1.2mm Specifications

LSCC012-GZ

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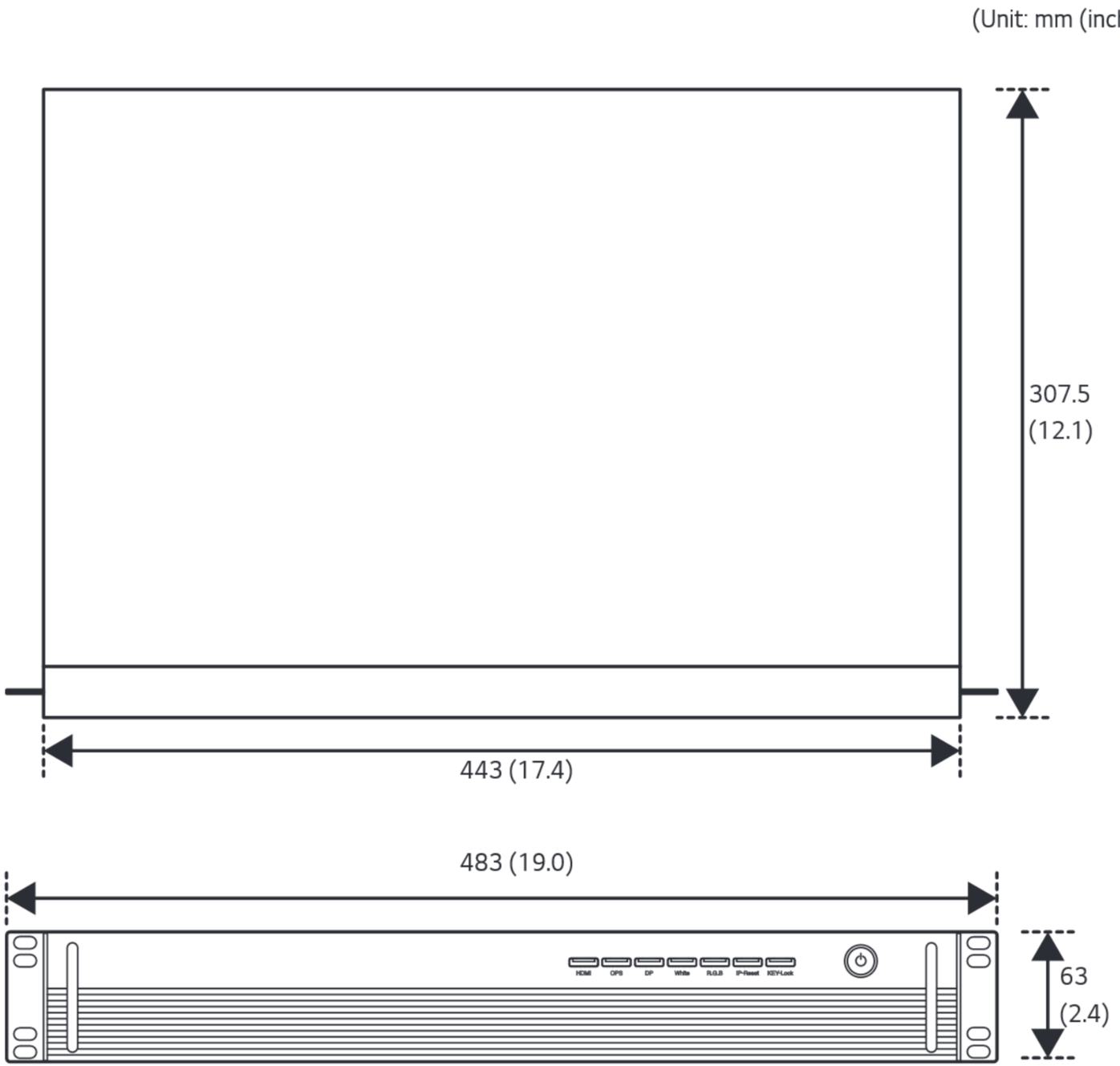
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LSCC-G196C Bundled Display				
LED Cabinet Images				
DV LED			Product LSCC012-GZ	REV 1
			SHEET	8 OF 13

LED System Controller Dimensions
CVCA



CVCA Specifications

Compatibility	**Compatible Product**	**LSCC/LSCA/GSCA/GSCC/GSCD**
Resolution	**Loading Capacity**	**3840x2160@60Hz**
	Max Output Range	**3840x2160**
	Output Resolution	**8.2944 Million Pixels**
	Pixel Limit Per Port	**655,000 Pixels**
Input	**HDMI**	**HDMI 2.0**
	HDCP	**HDCP 2.2**
	DP	**DP 1.2**
	DVI	**No**
	SDI	**No**
Output	**HDMI**	**No**
	SDI	**No**
	DVI	**No**
	Optical	**No**
	Ethernet	**16 Channels**
Control	**LAN**	**Yes**
	USB	**Yes (OPS)**
	RS-232C	**Yes**
Sensor	**Brightness**	**Optional**
	Temperature	**No**
Video Processing	**Brightness Adjustment**	**Yes**
	Chroma Adjustment	**Yes**
	Improved Grayscale at Low Brightness	**Yes**
	Scaling	**Yes**
	HDR	**HDR 10 Pro**
Application	**CMS**	**SuperSign CMS**
	WebOS	**4.0**
	Signage365 Care	**Yes**
	Configuration Software	**LED Assistant**
Other	**Custom EDID**	**No**
	Signal Redundancy	**Yes**
Mechanical	**Dimensions (W x H x D) mm**	**443 x 63 x 307.5**
	Weight Kg	**4.9**

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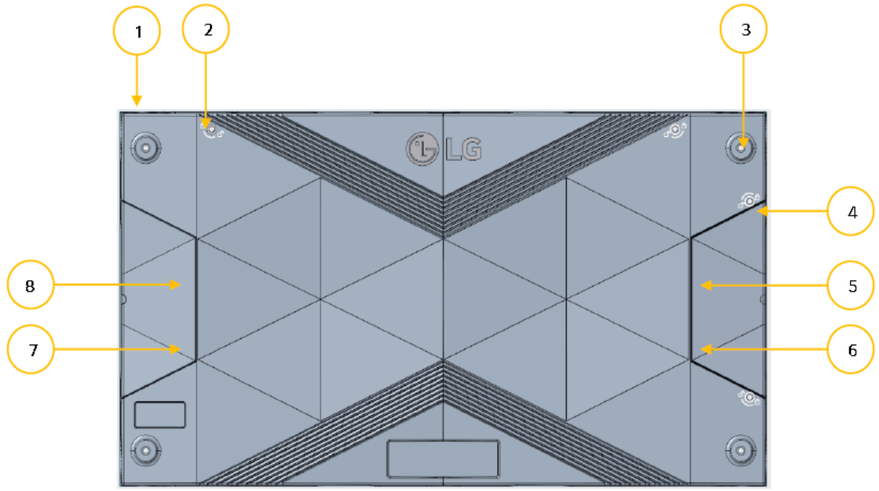
LSCC-G196C Bundled Display

LED System Controller Dimensions

DV LED			Product CVCA	REV 1
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Appendix:

A. LSCC012-GZ Features



Pos.	Name	Note
1	Position pin	Easy cabinet alignment
2	Vertical “Rolling”- Lock	Mechanical connection to upper panel
3	Hanging pin	Hanging point for fixed installation (4x)
4	Horizontal “Rolling”- Lock	Mechanical connection to lateral panel
5	Data socket	Socket for data input
6	Power socket	Socket for power supply, AC input
7	Power connection	Additional power socket, AC output
8	Data connection	Socket for data interlink



Data Connector



Power Connector



LED-module removal

1. Apply the vacuum suction tool in the middle of the module.
2. Run the tool, ensure that the module sticks to it.
3. Pull carefully and detach the module. Take out the modules one after another.



The installation kit pictured above contains the USB drive, hand tools, alignment jigs and module removal vacuum

LSCC 1.2mm Specifications

LSCC012-GZ

Physical Parameters	**Pixel Configuration**	3 In 1 SMD
	Pixel Pitch (mm)	1.25
	Module Resolution (WxH)	240 x 135
	Module Dimension (WxH, mm)	300 x 168.75
	Weight per Module (kg)	0.31
	No. of Modules per Unit Case (WxH)	2 x 2
	Unit Case Resolution (WxH)	480 x 270
	Unit Case Dimensions (WxHxD, mm)	600 x 337.5 x 33.6
	Unit Case Surface Area (m^2)	0.2
	Weight per Unit Case (kg/unit)	5.0
	Weight per Square Meter (kg/m^2)	24.69
	Physical Pixel Density ($pixels/m^2$)	640,000
	Unit Case Material	Die Casting Aluminum
	Service Access	Front
Optical Specifications	**Min. Brightness (After Calibration)**	800
	Color Temperature	3500 ~ 9000 (Default: 6500K)
	Visual Viewing Angle (HxV)	160 x 160
	Brightness Uniformity	97%
	Color Uniformity	±0.003CxCy
	Contrast Ratio	5000:1
	Processing Depth (bit)	14 (HDR10, HDR10 Pro)
Electrical Specifications	**Power Consumption (W/Unit, Max)**	112
	Power Consumption (W/Unit, Avg.)	37
	Power Consumption (W/m^2, Max)	553
	Power Supply (V)	100 - 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
	Operating Humidity	0 ~ 80%RH
Certification		CE,FCC,ETL, EMC Class-A, BS476 Part7 Class1, EN13501-1
Environment		RoHS, REACH

Total 8Wx4H Wall (Total 32 Cabinets):

*below info does not include mounting structure

Dimensions: 4800mm W x 1350 H x 33.6mm D
(188.98" W x 53.15" H x 1.32" D)

Weight: 160 kg/352.74 lbs

Power: (100V/240V)
Max: 3584W
Average: 1184W
BTUs per hour: 12229.12 Max – 4039.98 Avg

Resolution: 3840 Pixels W x 1080 Pixels H

Total Number of 8Wx4H LED Walls: 1

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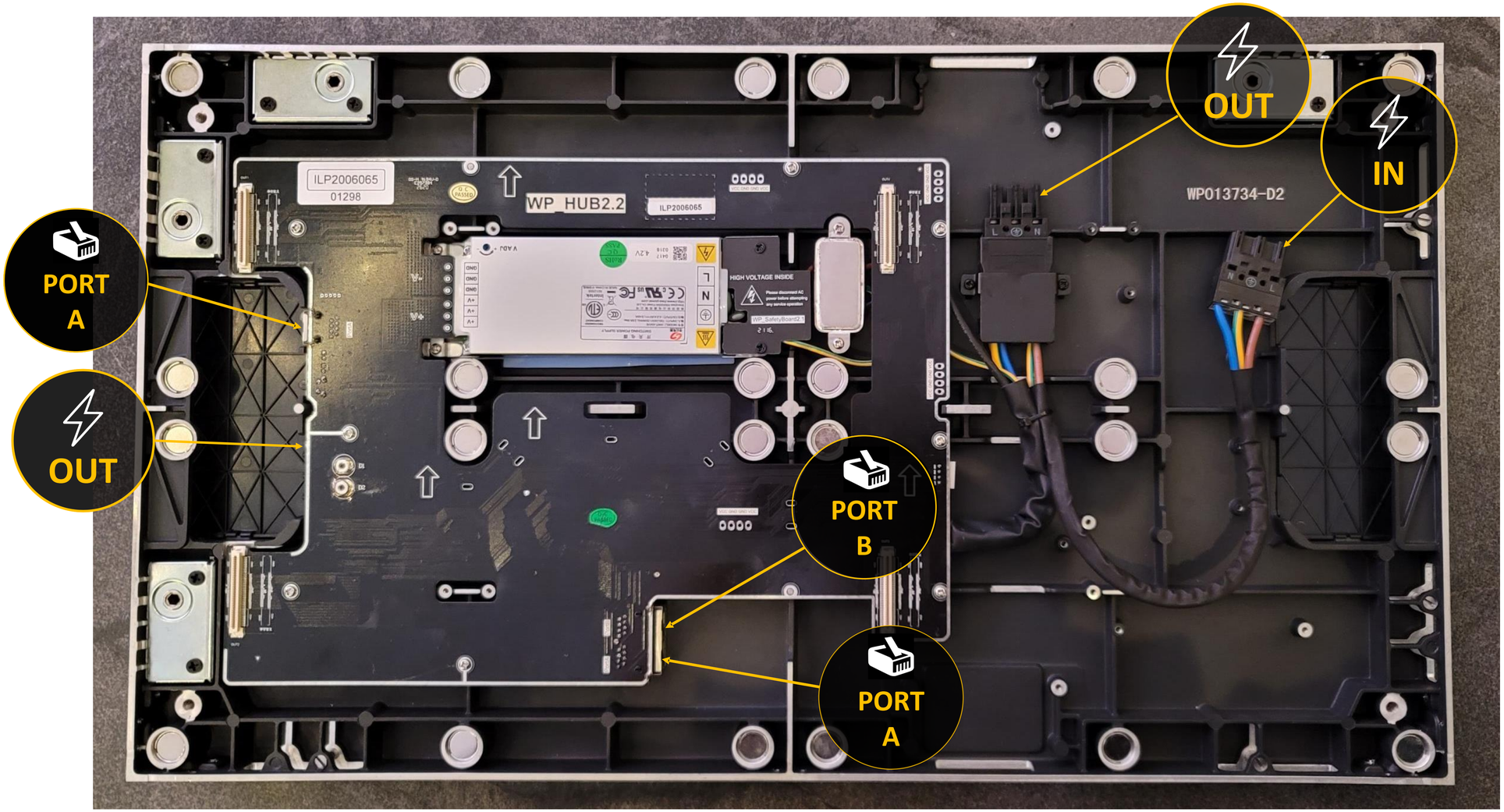
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LSCC-G196C Bundled Display

Appendix A

DV LED			Product LSCC012-GZ	REV 1
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Appendix:
B. LSCC012-GZ Power and Data Connections



Please note – When connecting data into and out of the LED cabinet, only 1 data port A can be used. The data ports are bidirectional, but typically one data port A is used for data input and data port B is used for data output. If signal redundancy is included in the system, the redundant data lines will be connected to the data port B of the last cabinet in each data group.

LSCC 1.2mm Specifications

LSCC012-GZ

Physical Parameters	**Pixel Configuration**	3 In 1 SMD
	Pixel Pitch (mm)	1.25
	Module Resolution (WxH)	240 x 135
	Module Dimension (WxH, mm)	300 x 168.75
	Weight per Module (kg)	0.31
	No. of Modules per Unit Case (WxH)	2 x 2
	Unit Case Resolution (WxH)	480 x 270
	Unit Case Dimensions (WxHxD, mm)	600 x 337.5 x 33.6
	Unit Case Surface Area (m^2)	0.2
	Weight per Unit Case (kg/unit)	5.0
	Weight per Square Meter (kg/m^2)	24.69
	Physical Pixel Density ($pixels/m^2$)	640,000
	Unit Case Material	Die Casting Aluminum
	Service Access	Front
Optical Specifications	**Min. Brightness (After Calibration)**	800
	Color Temperature	3500 ~ 9000 (Default: 6500K)
	Visual Viewing Angle (HxV)	160 x 160
	Brightness Uniformity	97%
	Color Uniformity	±0.003CxCy
	Contrast Ratio	5000:1
	Processing Depth (bit)	14 (HDR10, HDR10 Pro)
Electrical Specifications	**Power Consumption (W/Unit, Max)**	112
	Power Consumption (W/Unit, Avg.)	37
	Power Consumption (W/m^2, Max)	553
	Power Supply (V)	100 - 240
	Frame Rate (Hz)	50 / 60
	Refresh Rate (Hz)	3840
Electrical Specifications	**Lifetime (Half Brightness, hrs)**	100,000
	Operating Temperature	-10◦ to +45◦
	Operating Humidity	0 ~ 80%RH
Certification		CE,FCC,ETL, EMC Class-A, BS476 Part7 Class1, EN13501-1
Environment		RoHS, REACH

Total 8Wx4H Wall (Total 32 Cabinets):

*below info does not include mounting structure

Dimensions: 4800mm W x 1350 H x 33.6mm D
(188.98" W x 53.15" H x 1.32" D)

Weight: 160 kg/352.74 lbs

Power: (100V/240V)
Max: 3584W
Average: 1184W
BTUs per hour: 12229.12 Max – 4039.98 Avg

Resolution: 3840 Pixels W x 1080 Pixels H

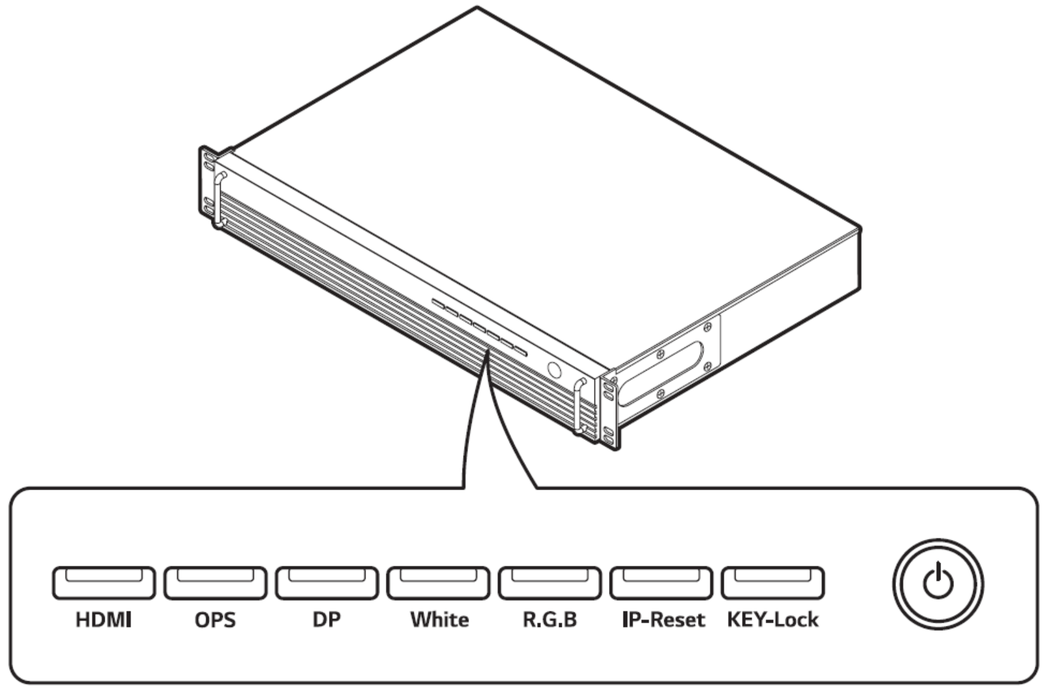
Total Number of 8Wx4H LED Walls: 1

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LG Life's Good	LSCC-G196C Bundled Display			
	Appendix B			
DV LED			Product: LSCC012-GZ	REV: 1
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Appendix:
C. CVCA Front Button Controls



	Explanation
⏻	• Turns the power on and off.
HDMI	• Switches to HDMI input.
OPS	• Switches to OPS input.
DP	• Switches to DP input.
White	• Accesses/Exits White Pattern.
R.G.B	• Consecutively accesses/exits R/G/B Pattern.
IP-Reset	• Press and hold for 3 seconds or more to set the IP address to 192.168.0.101.
KEY-Lock	• Press and hold for 3 seconds or more to access/exit Key Lock.

NOTE

- If you press **White** or **R.G.B** to access the corresponding pattern, HDMI/OPS/DP screen will not be available. If you want to switch to the external input screen, repeatedly press the button until you exit from the pattern.

CVCA Specifications

Compatibility	**Compatible Product**	**LSCB/LSCA/GSCA/GSCC/GSCD**
Resolution	**Loading Capacity**	**3840x2160@60Hz**
	Max Output Range	**3840x2160**
	Output Resolution	**8.2944 Million Pixels**
	Pixel Limit Per Port	**655,000 Pixels**
Input	**HDMI**	**HDMI 2.0**
	HDCP	**HDCP 2.2**
	DP	**DP 1.2**
	DVI	**No**
	SDI	**No**
Output	**HDMI**	**No**
	SDI	**No**
	DVI	**No**
	Optical	**No**
	Ethernet	**16 Channels**
Control	**LAN**	**Yes**
	USB	**Yes (OPS)**
	RS-232C	**Yes**
Sensor	**Brightness**	**Optional**
	Temperature	**No**
Video Processing	**Brightness Adjustment**	**Yes**
	Chroma Adjustment	**Yes**
	Improved Grayscale at Low Brightness	**Yes**
	Scaling	**Yes**
	HDR	**HDR 10 Pro**
Application	**CMS**	**SuperSign CMS**
	WebOS	**4.0**
	Signage365 Care	**Yes**
	Configuration Software	**LED Assistant**
Other	**Custom EDID**	**No**
	Signal Redundancy	**Yes**
Mechanical	**Dimensions (W x H x D) mm**	**443 x 63 x 307.5**
	Weight Kg	**4.9**

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Appendix:
D. CVCA Supported Input Resolutions

HDMI/DisplayPort/OPS (PC) Support Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
800 x 600	37.879	60.317
1024 x 768	48.363	60.0
1280 x 720	44.772	59.855
1280 x 1024	63.981	60.02
1680 x 1050	65.290	59.954
1920 x 1080	67.5	60
3840 x 2160	67.5	30
3840 x 2160	135	60

HDMI/DisplayPort/OPS (DTV) Support Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480/60p	31.5	60
576/50p	31.25	50
720/50p	37.5	50
720/60p	45	60
1080/50i	28.1	50
1080/60i	33.75	60
1080/50p	56.25	50
1080/60p	67.432	59.94
1080/60p	67.5	60
2160/30p	67.5	30
2160/50p	112.5	50
2160/60p	135	60

CVCA Specifications

Compatibility	Compatible Product	LSCB/LSCA/GSCA/GSCC/GSCD
Resolution	Loading Capacity	3840x2160@60Hz
	Max Output Range	3840x2160
	Output Resolution	8.2944 Million Pixels
	Pixel Limit Per Port	655,000 Pixels
Input	HDMI	HDMI 2.0
	HDCP	HDCP 2.2
	DP	DP 1.2
	DVI	No
	SDI	No
Output	HDMI	No
	SDI	No
	DVI	No
	Optical	No
	Ethernet	16 Channels
Control	LAN	Yes
	USB	Yes (OPS)
	RS-232C	Yes
Sensor	Brightness	Optional
	Temperature	No
Video Processing	Brightness Adjustment	Yes
	Chroma Adjustment	Yes
	Improved Grayscale at Low Brightness	Yes
	Scaling	Yes
	HDR	HDR 10 Pro
Application	CMS	SuperSign CMS
	WebOS	4.0
	Signage365 Care	Yes
	Configuration Software	LED Assistant
Other	Custom EDID	No
	Signal Redundancy	Yes
Mechanical	Dimensions (W x H x D) mm	443 x 63 x 307.5
	Weight Kg	4.9

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