VPL 1220·20

LED Video Pixel Linear

Description

The VPL 1220-20 is a video pixel linear designed to create powerful pixel mapping and media effects. It is a powerful and versatile tool for linear and radial installations where high-visibility and a very flexible setup are essential. This easily integrated fixture is suitable for a wide range of applications, including media façades, touring concerts, stadiums, theme parks or just about any fixed or temporary tight space installation. The VPL series are available in different lengths with multiple accessories like Opal lenses, brackets, and extension cables.

Features and benefits

- ✓ IP66-rated Video Pixel Linear luminaire

- ✓ Up to 65 fixtures (79 meters) on a single circuit

- ✓ 19.05 mm pixel pitch and 120º viewing angle

- ✓ 64 Quad Full-Color LED Pixel Clusters (256 Full-ColorLEDs per unit)

- ✓ IK09-rated, C-5M / CX (marine), UV and corrosion resistant

- ✓ Power and data in one cable with no need for external power supplies

- ✓ 1212 millimeter length per luminaire with integrated power supply

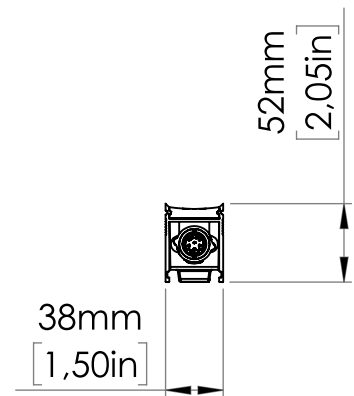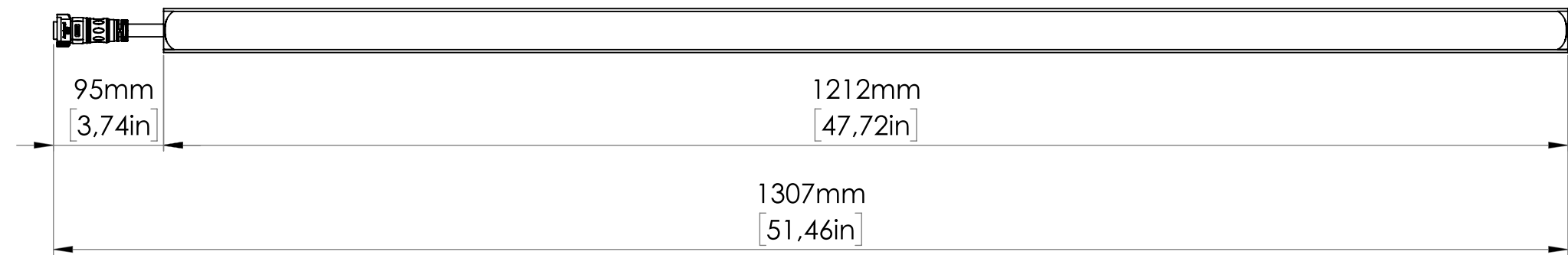- ✓ 16 bit control, Real time remote monitoring, Auto addressing

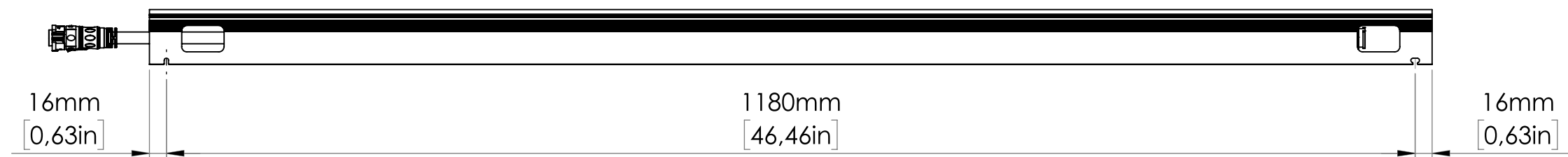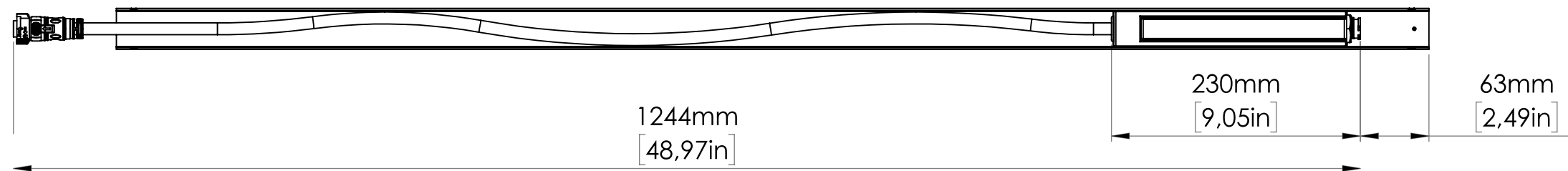## Certifications & classifications

IP66   RoHS   CE   ETL   ECO FRIENDLY

1244mm
[48,97in]

230mm
[9,05in]

63mm
[2,49in]

52mm
[2,05in]

16mm
[0,63in]

1180mm
[46,46in]

16mm
[0,63in]

38mm
[1,50in]

95mm
[3,74in]

1212mm
[47,72in]

1307mm
[51,46in]

Specification

Optical Data

LED expected lifetime	50,000 hours
Lightsource	256 x high-power RGB LEDs
Native lens options	110°
Pixel per meter	52 px/m
Pixel pitch	19.05 mm
Pixel size	6 x 6 mm Quad LED Pixel Clusters

Photometric

Color temperature range	2000K - 10000K
Efficacy	33 lm/W
Light output all LEDs on	810 lm
Lumen per kilogram	506 lm / Kg
Luminance	8400 Nits (cd/m2) 8400 nits (modular spacing 38mm)
Luminance efficacy	10.14 Nits/W
Native beam angle(s)	109° (with clear 110° lens)
Native field angle(s)	151° horizontal, 158° vertical (with 110° clear lens)

Physical

Color options	Black - RAL 9004 AluGrey
Corrosion class	CX (C5-M - ISO 12944)
Effective Projected Area	0.68 Square ft
IK rating	IK09
IP class	IP66
Material	Aluminium
Net dimensions	1212 x 52 x 38 mm
Net dimensions inches	47.8 x 2 x 1.5 inches
Net weight	1.6 kg (3.5 lbs)

Features

Addressable pixels	64
Auto adressing	Yes
Color calibration	SGM proprietary, full color calibration White calibration for RGB
Dimming	Smooth fade in, gamma corrected curve
On-fixture test	Yes
Other	Can be linked up to 79 meters / 65 units LED frequency control via SGM Network Admin
Remote monitoring	Yes (Real Time)

	View angle	120°
Electrical	Electrical protection	Overload protection with automatic recover
	Input voltage, nominal	200 - 240 VAC; 50 / 60 Hz
	Max inrush current 230VAC	1.9 A
	Max power consumption	35 W
	Power factor	0.98 PF (230 V)
	Power per meter	29 W/m
	Power Supply Unit	Auto-ranging electronic switch-mode
	Standby power consumption	2.8 W
Programming and Control	16-bit control	Red, Green, Blue
	Data communication	100 Mb
	Data distribution	SGM Power and Data Joiner
	DMX channels	3, 6, 12, 24, 48, 96, 192 or 384
	DMX modes	8
	Protocol	ArtNet (up to 120 Hz) sACN SGM VP-Net
	Setting and addressing	SGM VP Administrator
Connections	Data / Power input	Multicore 8 pin cable 1xShield, 2xPower, 4xSignal
	Data / Power output	Multicore 8 pin cable 1xShield, 2xPower, 4xSignal
Installation	Orientation	Any
	Rigging possibilities	Installation mounting profiles (not included) Hanging / horizontal mounted or ceiling / wall mount (optional)
Thermal	Cooling	Passive
	Humidity (max.)	98 %
	Temperature range, operating	-20°C to 60°C
	Temperature range, start-up	-20°C to 60°C
	Temperature range, storage	-40°C to 80°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	119.4 BTU per hour
	Total heat dissipation, standby	9.6 BTU per hour
Included items	Included items	Safety instructions and installation quick guide

Conforms To	CE - 2014/30/EU: EMC Directive	EN 55103-2
		EN 55015
		EN 61547
		EN 61000-3-2
		EN 61000-3-3
		EN 55024
		EN 55032
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1
		EN 60598-2-17
		EN 62471
		EN 60529
		EN 62368-1
	RoHS2 Directive	2011/65/EU
	UL	UL Std. 1573
Certified To	CSA	CSA E60598-1, Ed: 2
		CSA-E598-2-17-98, Ed: 1

NOTES:

Due to continuous improvements and innovations, specifications may change without notice.

LEDs' expected lifetime provided by manufacturer and obtained under manufacturer's test conditions.

Zoom range defined as a minimum beam angle to a maximum field angle.

Photometric measurements obtained with Goniometer Scan / SGM Illumination Lab 1.6.0.0.

Lumen output in pixel products is calculated.

Ordering information

Qty	Product name	Item number
☐	VPL1220-20, AG	80080053
☐	VPL1220-20, BL	80080058
☐		

Qty	Accessories	Item number
☐	VPL Touring bracket	83060633
☐	VPL Rounded Opal lens	83061074
☐	VP Power Inserter	83062047
☐	VP Touring Power + Data Joiner	83062049
☐	VP Data Redundancy Interface	83062048
☐	VPL Single installation bracket	83060634
☐	VPL Dual installation bracket	83060635
☐	VP Extension cable	83062051
☐	VP Connector End cap	83062056
☐	SGM Network Admin	
☐	VP Power + Data Joiner	83062046
☐	VPL Smoked clear lens	83061079
☐	GND/Earth wire for VPL, 1m	83062050
☐	VPL Opal / Black lens	83061083
☐	VP Processor	80070238
☐	VPL Smoked Frosted lens	83061087
☐	VPL Rounded Smoked Opal lens	83061091
☐	VP Extension cable, 1m	
☐	VP Extension cable, 2.5m	
☐	VP Extension cable, 5m	
☐	VP Custom Extension cable Kit, 1m	
☐	VP Custom Extension cable Kit, 10m	
☐		