

VC-Strip 30

CREATIVE LED VIDEO STRIP WITH 30MM PIXEL PITCH

SPEC SHEET



HIGHLIGHTS

- Wide range of pixel pitches to suit every application
- Easy cabling, mapping and configuration
- Bright and fully calibrated for optimal consistency

OVERVIEW

The VC-Strip family of narrow RGB LED video strips is ideal for integration of video into stage and set designs, interiors, custom set elements and more. VC-Strips are fully pixel-level calibrated on brightness and colors for optimal uniformity and quality and are driven by Martin's award-winning P3 System Controller family for smooth playback that outperforms any DMX-based system. VC-Strips are available in various lengths and can even be cut to required length on-site.

KEY MESSAGES

FLEXIBLE MOUNTING

The VC-Strip are lightweight and compact RGB LED strips, which can be arranged in many creative shapes combined with VC-Grid as well. The VC-Strip comes in four different pixel pitch variants to cover a wide range of applications. Used with or without a front diffuser, multiple VC-Strips can be combined in a countless variety of ways for ultimate design freedom.

EASY INFRASTRUCTURE

The VC-Strips are daisy-chained with a hybrid power and data cable for easy installation. The VC-Strip can be controlled via the Martin P3 protocol for easy mapping and integration with other Martin LED Video products onto the same control system. For small or pure lighting applications, the VC-Strip also accepts RDM/DMX, enabling even more versatile use.

OPTIMAL PERFORMANCE

All VC-Strips feature advanced color & brightness calibration & color-matching even between different fixture types. The entire system is fully synchronized, ensuring all elements work cohesively without visible latency. The fixtures can be specified for noise sensitive applications as they are completely silent and the power supply can be mounted away from the fixtures.

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FEATURES

- 16/8 individually controllable pixels
- 30 mm pixel pitch
- 2750 nits of brightness
- High-quality 16-bit per color image processing technology
- Pixel-level brightness and color calibration for optimal image quality
- P3/DMX controllable (automatic protocol detection)
- Intuitive mapping and addressing via P3 System Controller
- Combined power/data input (single cable for power and data input)
- Combined power/data thru (to daisy-chain up to 45 VC-Strip 30s)
- Supported by integrated power and data processor (P3 PowerPort 1500) and simple cabling system
- Length of VC-Strip can be customized on-site (simple cutting) to fit integration needs
- Compatible with VC-Grid 30

ORDERING INFORMATION

- VC-Strip™ 16x1 30 RGB P/N 90357460
- VC-Strip™ 8x1 30 RGB P/N 90357470

RELATED ITEMS

- Martin P3™ PowerPort 1500 P/N 90721040
- Martin™ IP66 PSU 240 W external power supply unit.. P/N 90760330
- Martin P3-050™ System Controller P/N 90721090
- Martin P3-150™ System Controller P/N 90721015
- Martin P3-300™ System Controller P/N 90721060
- Martin P3-PC™ System Controller..... P/N 90721030



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ORDERING INFORMATION ACCESSORIES

INPUT CABLES:

- P3 via P3 PowerPort 1500
- Power+Data Adapter XLR4-PCB, 0.25 m (0.9 ft.) P/N 91616035
- DMX via Martin IP66 PSU
- Power+Data Adapter XLR5+Martin PSU-XLR4, 0.25 m (0.9 ft.) P/N 91616039
- DMX via Generic PSU
- Power+Data Adapter XLR5+Power-XLR4, 0.25 m (0.9 ft.) P/N 91616037
- DMX via P3 PowerPort 1500
- Power+Data Adapter XLR5+XLR4-XLR4, 0.25 m (0.8 ft.) P/N 91616038

LINK CABLES:

- Power+Data Cable PCB-PCB, 200 mm (7.9 in.) P/N 91616025
- Power+Data Cable PCB-PCB, 400 mm (15.8 in.) P/N 91616026
- Power+Data Cable PCB-PCB, 600 mm (23.7 in.) P/N 91616027
- Power+Data Cable PCB-PCB, 800 mm (31.5 in.) P/N 91616028
- Power+Data Cable PCB-PCB, 1000 mm (39.4 in.) P/N 91616029

EXTENSION CABLES:

- Power+Data Cable XLR4-XLR4, 1 m (3.3 ft.) P/N 91616030
- Power+Data Cable XLR4-XLR4, 2.5 m (8.2 ft.) P/N 91616031
- Power+Data Cable XLR4-XLR4, 5 m (16.4 ft.) P/N 91616032
- Power+Data Cable XLR4-XLR4, 10 m (32.8 ft.) P/N 91616033
- Power+Data Cable XLR4-XLR4, 25 m (82.1 ft.) P/N 91616034

OUTPUT/THROUGHPUT CABLES:

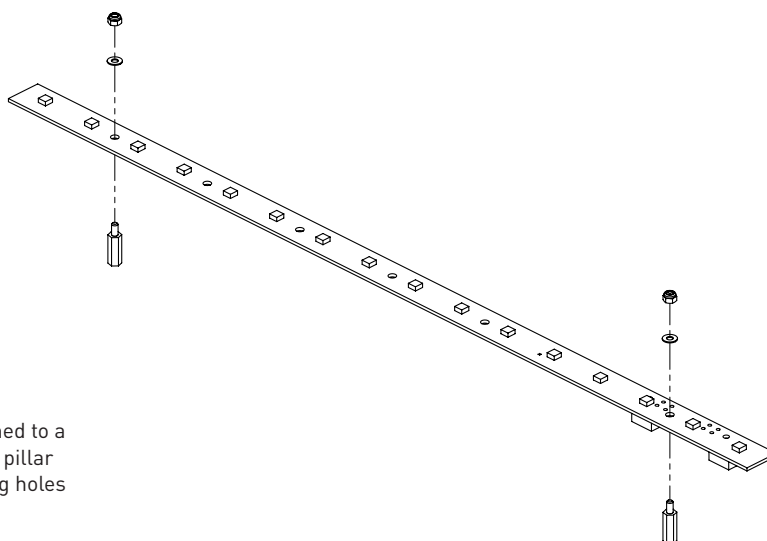
- Power+Data Adapter PCB-XLR4, 0.25 m (0.9 ft.) P/N 91616036
- Power+Data Adapter XLR4-XLR5, 0.25 m (0.9 ft.) P/N 91616040

CABLE WITHOUT CONNECTORS:

- Power+Data Cable, Rental, 100 m (328.1 ft.) P/N 91616045
- Power+Data Cable, Install CMX, 100 m (328.1 ft.) P/N 91616060
- Power+Data Cable, Install LSZH, 100 m (328.1 ft.) P/N 91616017

Refer to system diagram for infrastructure details

MOUNTING OPTIONS



The VC-Strip can be fastened to a surface or structure using pillar bolts through the mounting holes

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TECHNICAL SPECIFICATIONS

CONTROL AND PROGRAMMING

Control options	Martin P3 System Controller™ via Martin P3 PowerPort 1500™ and/or DMX
Control modes	Pixel and module
Control resolution	16-bit (P3) or 8-bit (DMX) control of each color
Protocol detection	Automatic
Setting and addressing	P3 System Controller or RDM-compliant controller
DMX channels	Pixel mode 16x1 model = 48, 8x1 model = 24; Module mode (all models) = 3
Color and intensity calibration	Pixel-level
Firmware update	Via P3 System Controller
DMX compliance	USITT DMX512-A
RDM compliance	ANSI/ESTA E1.20

CONTROL/USER INTERFACE

Device status	Multi-color visual indication
Device test and reset	Pushbutton to call up local test patterns and reset device

OPTICS

Minimum LED lifetime	50,000 hours (to >70% luminous output)*
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*Figure obtained under manufacturer's test conditions

PHOTOMETRIC DATA

Pixels	32/16 per module
Luminous intensity, calibrated mode	5000 Nit
Total max output (16x1)	110 lumen
Total max output (8x1)	60 lumen
Viewing angle	120° x 120°

P3 VIDEO PROCESSING

Color Resolution	16 bits per color (48 bit per pixel)
Color Temperature Control	2000K-11000K
Synchronization	System-wide
Frame Rate	Up to 75 frames/sec
Brightness Control	0-100% (at full color resolution)
Gamma Correction	Fully controllable
Gamma Control	Fully controllable
Color Gamut Control	Fully controllable
LED aging correction	Built-in

CONSTRUCTION

Base	Black FR4 circuit board
Protection rating	IP20
RoHS compliant	

INSTALLATION

Mounting	Mounting holes in module
Orientation	Any
Maximum number of VC-Strip™ 16x1 30 modules per daisy-chain	45
Maximum number of VC-Strip™ 8x1 30 modules per daisy-chain	63

CONNECTIONS

Power & data input	4-pin Molex connector
Power & data thru	4-pin Molex connector

ELECTRICAL

Nominal input voltage	48 VDC from Martin P3 PowerPort 1500™ or external PSU
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Peak power consumption (at full intensity, full white)	16x1 model 8 W; 8x1 model 4 W
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Typical power consumption (with typical video content)	16x1 model 3 W; 8x1 model 1.5 W
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Figures for typical video content are indicative only and will vary. Power consumption figures include cable and assume a 50 m chain

THERMAL

Cooling	Convection
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Maximum ambient temperature (Ta max.)	45° C
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Minimum ambient temperature (Ta min.)	-20° C
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Peak heat dissipation (calculated, at full intensity, full white)	16x1 model 28 BTU/hr.; 8x1 model 14 BTU/hr.
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Typical heat dissipation (calculated, with typical video content)	16x1 model 11 BTU/hr.; 8x1 model 5.5 BTU/hr.
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Figures for typical video content are indicative only and will vary.

APPROVALS

EU safety	EN 60950
EU EMC	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety	ANSI/UL 60950-1
Canadian safety	CSA C22.2 No. 60950-1



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DIMENSIONS

PHYSICAL

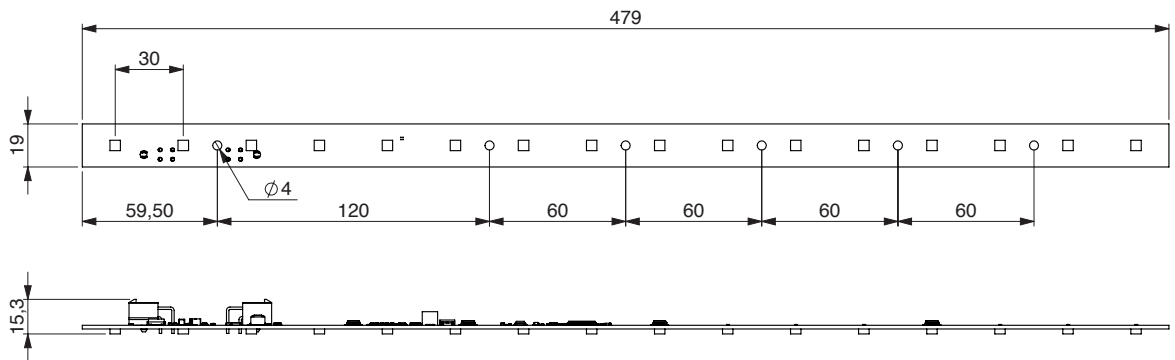
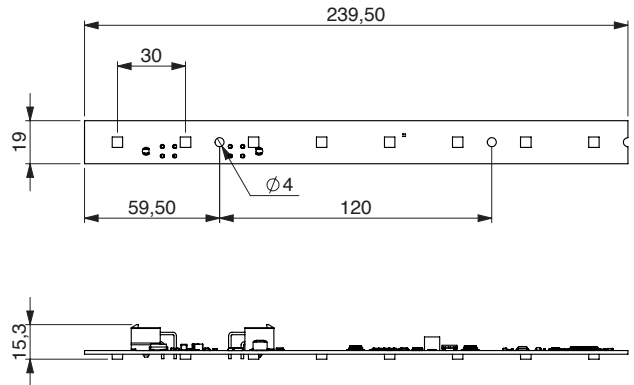
VC-Strip 32x1 30™

- Length.....480 mm (18.9 in.) *
- Width.....19 mm (0.8 in.)
- Height.....15,3 mm (0.6 in.)
- Weight.....54 g (0.12 lbs.)

VC-Strip 16x1 30™

- Length.....240 mm (9.5 in.) *
- Width.....19 mm (0.8 in.)
- Height.....15,3 mm (0.6 in.)
- Weight.....33 g (0.08 lbs.)

*Including 1 mm board-to-board gap



All dimensions are in mm

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VC-GRID/VC-STRIP FAMILY OVERVIEW

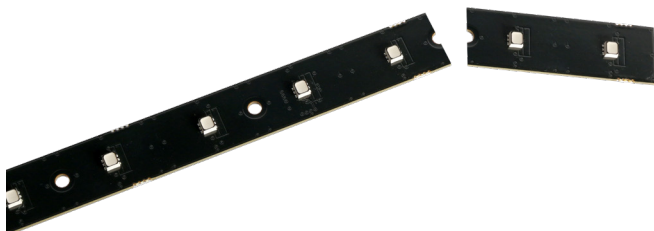
Model	Layout	Dimension*	Height	Pixel pitch	Calibrated Output
VC-Grid 15	16 x 16	240 mm x 240 mm	15,3 mm	15 mm	5000 Nit
VC-Grid	8 x 8	200 mm x 200mm	17 mm	25 mm	4000 Nit
VC-Grid 30	8 x 8	240 mm x 240 mm	15,3 mm	30 mm	2750 Nit
VC-Grid 60	8 x 8	480 mm x 480 mm	15,3 mm	60 mm	750 Nit
VC-Grid 60	4 x 4	240 mm x 240 mm	15,3 mm	60 mm	750 Nit
VC-Strip 15	32 x 1	480 mm x 19 mm	15,3 mm	15 mm	5000 Nit
VC-Strip 15	16 x 1	240 mm x 19 mm	15,3 mm	15 mm	5000 Nit
VC-Strip	16 x 1	400 mm x 20 mm	17 mm	25 mm	4000 Nit
VC-Strip	8 x 1	200 mm x 20 mm	17 mm	25 mm	4000 Nit
VC-Strip 30	16 x 1	480 mm x 19 mm	15,3 mm	30 mm	2750 Nit
VC-Strip 30	8 x 1	240 mm x 19 mm	15,3 mm	30 mm	2750 Nit
VC-Strip 60	8 x 1	480 mm x 19 mm	15,3 mm	60 mm	750 Nit
VC-Strip 60	4 x 1	240 mm x 19 mm	15,3 mm	60 mm	750 Nit

*Dimension include board-to-board gap required to maintain pixel pitch

VC-STRIP CUT LENGTHS

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16 pixels / 480mm is max length per module



Can be cut down to:

- 15 pixels 450mm
- 14 pixels 420mm
- 13 pixels 390mm
- 12 pixels 360mm
- 11 pixels 330mm
- 10 pixels 300mm
- 9 pixels 270mm
- 8 pixels 240mm

Maximum number of full-length modules per chain also applies for shortened VC-Strip modules