

# VC-Grid

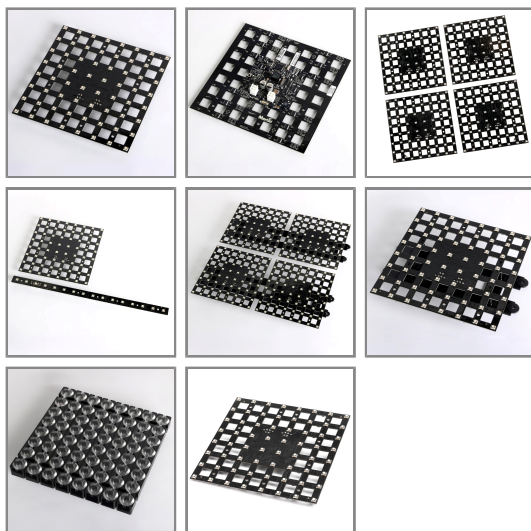
The VC-Grid is a small, 200 x 200 mm LED video module with a 25 mm pixel pitch. Useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort, the VC-Grid's compact size makes it extremely suitable for integration into stage designs, set elements, creative ceilings, lobbies and much more. Used with or without a front diffuser, multiple VC-Grids can be combined in a countless variety of ways for ultimate design freedom. A combined power/data cable allows VC-Grids to be daisy-chained for easy setup and less cabling.

Wide range of pixel pitches to suit every application

Easy cabling, mapping and configuration

Bright and fully calibrated for optimal consistency

## GALLERY



## FEATURES

- 64 individually controllable pixels
- 4000 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 multiple VC-Grids)
- Available in RGB, cool white, medium white and warm white
- Supported by integrated power and data processor (P3 PowerPort 1500) and simple cabling system
- Custom designs available on request (pixel pitch and module dimensions)

## TECHNICAL SPECIFICATIONS

### Physical

Length: 200 mm (7.9 in.) \*

Width: 200 mm (7.9 in.) \*

Height: 18 mm (0.7 in.)

Weight: 140 g (0.3 lbs.)

\*Including 15 mm board-to-board gap:

### Control and Programming

Control options: Martin P3 System Controller™ via Martin P3 PowerPort 1500™ and/or DMX

Protocol detection: Automatic

Control modes: pixel and module

DMX channels (RGB): 192 (pixel mode) or 3 (module mode)

Setting and addressing: P3 System Controller or RDM-compliant controller

Control resolution: 16-bit (P3) or 8-bit (DMX) control of each color

Color and intensity calibration: Pixel-level

DMX compliance: USITT DMX512-A

RDM compliance: ANSI/ESTA E1.20

Firmware update: Via P3 System Controller

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) \*  
\*Figure obtained under manufacturer's test conditions:

#### Photometric Data

Pixels per module: 64  
Luminous intensity, RGB, calibrated mode: 4000 Nit  
Viewing angle: 120° x 120°

#### Video Processing

Brightness control  
Gamma correction and control  
Color temperature control  
Color gamut control  
Calibration processing  
Synchronization

#### Construction

Base: Black FR4 circuit board  
Transparency through module (unmasked area): 37%  
Protection rating: IP20  
RoHS compliant

#### Installation

Orientation: Any  
Maximum number of VC-Grid™ 8x8 25 modules per daisy-chain: 12  
Mounting: Mounting holes in module

#### 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  
Peak power consumption (at full intensity, full white): 30 W  
Typical power consumption (with typical video content): 10 W  
*Figures for typical video content are indicative only and will vary:*

#### Thermal

Cooling: Convection  
Maximum ambient temperature (Ta max.): 45° C  
Minimum ambient temperature (Ta min.): -20° C  
Peak heat dissipation (calculated, at full intensity, full white): 105 BTU/hr.  
Typical heat dissipation (calculated, with typical video content): 35 BTU/hr.  
*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

#### Accessories

VC-Grid™/Strip™ 25 Mounting Frames, set of 10: P/N 91611370  
VC-Grid™/Strip™ 25 Lens Arrays, Narrow, set of 8: P/N 91611540

#### Input cables:

Power+Data Adapter XLR4-PCB, 0.25 m (0.9 ft.): P/N 91616035  
Power+Data Adapter XLR5+Power-XLR4, 0.25 m (0.9 ft.): P/N 91616037  
Power+Data Adapter XLR5+XLR4-XLR4, 0.25 m (0.8 ft.): P/N 91616038  
Power+Data Adapter XLR5+Tripi-XLR4, 0.25 m (0.9 ft.): P/N 91616039

#### VC-Grid to VC-Grid 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  
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

#### 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  
*Hybrid cables carry both power and data:*

#### Related Items

Martin P3 PowerPort 1500™: P/N 90721040  
Martin P3-050™ System Controller: P/N 90721090  
Martin P3-100™ System Controller: P/N 90721010  
Martin P3-150™ System Controller: P/N 90721015  
Martin P3-200™ System Controller: P/N 90721020  
Martin P3-300™ System Controller: P/N 90721060  
Martin P3-PC™ System Controller: P/N 90721030  
Martin™ IP66 PSU 240 W external power supply unit: P/N 90760330

#### Ordering Information

VC-Grid™ 8x8 25 RGB: P/N 90357010

