



VC-Grid 60

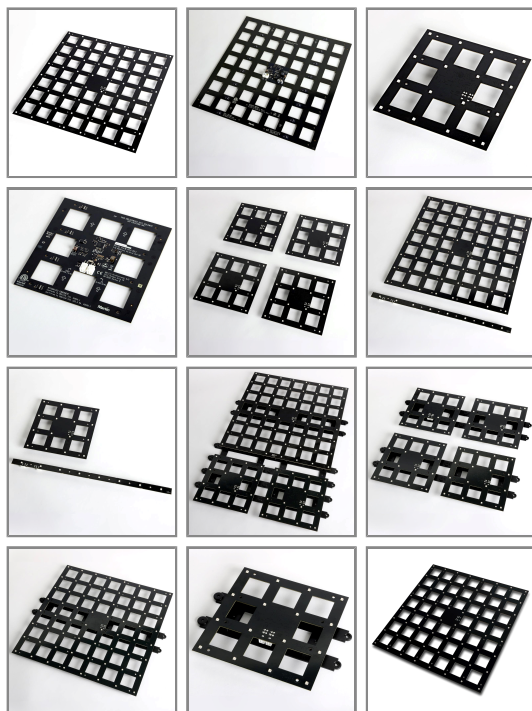
The VC-Grid 60 is an ultra-light-weight LED video module with a 60 mm pixel pitch. Useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort, the VC-Grid's compact size makes it extremely suitable for integration into stage designs, set elements, creative 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

- 64/16 individually controllable pixels
- 750 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)
- 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

VC-Grid 8x8 60™:

Length: 480 mm (18.9 in.) *

Width: 480 mm (18.9 in.) *

Height: 15 mm (0.6 in.)

Weight: 500 g (1.1 lbs.)

VC-Grid 4x4 60™:

Length: 240 mm (9.5 in.) *

Width: 240 mm (9.5 in.) *

Height: 15 mm (0.6 in.)

Weight: 123 g (0.3 lbs.)

*Including 40 mm (1.6 in.) board-to-board gap :

Control and Programming

DMX channels, 8x8 model: 192 (pixel mode) or 3 (module mode)

DMX channels, 4x4 model: 48 (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 options: Martin P3 System Controller™ via Martin P3 PowerPort 1500™ and/or

DMX

Protocol detection: Automatic

Control modes: pixel and module

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

Luminous intensity, calibrated mode: 750 nit

Viewing angle: 120° x 120°

Preliminary data, figures are approximate:

VC-Grid 8x8 60™ :

Pixels per module: 64

VC-Grid 4x4 60™:

Pixels per module: 16

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): 8x8 models 49%, 4x4 models 53%

Protection rating: IP20

RoHS compliant

Installation

Orientation: Any

Maximum number of VC-Grid™ 8x8 60 modules per daisy-chain: 12

Maximum number of VC-Grid™ 4x4 60 modules per daisy-chain: 45

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): 8x8 model 30 W; 4x4 model 8 W

Typical power consumption (with typical video content): 8x8 model 10 W; 4x4 model 3 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): 8x8 model 105 BTU/hr.; 4x4 model 28 BTU/hr.

Typical heat dissipation (calculated, with typical video content): 8x8 model 35 BTU/hr.; 4x4 model 11 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 15/30/60 Mounting Frames, set of 10: P/N 91611560

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

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 (0.9 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

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 P3-100™ System Controller: P/N 90721010

Martin P3-200™ System Controller: P/N 90721020

Martin P3-PC™ System Controller: P/N 90721030
Martin™ IP66 PSU 240 W external power supply unit: P/N 90760330
Martin P3-300™ System Controller:: P/N 90721060

Ordering Information
VC-Grid™ 8x8 60 RGB: P/N 90357560
VC-Grid™ 4x4 60 RGB: P/N 90357570

