

VC-Grid 15

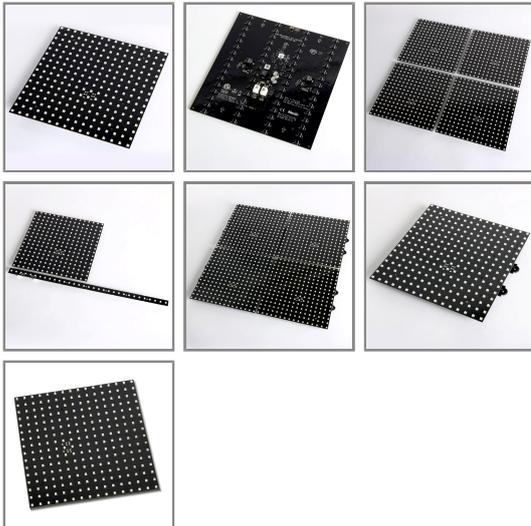
The VC-Grid 15 is a small, 240 x 240 mm LED video module with a 15 mm pixel pitch. Useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort, the VC-Grid's compact size makes it extremely suitable for integration into stage designs, set elements, creative 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

- 256 individually controllable pixels
- 5000 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

Length: 240 mm (9.5 in.) *

Width: 240 mm (9.5 in.) *

Height: 15 mm (0.6 in.)

Weight: 311 g (0.7 lbs.)

*Including 5 mm (0.2 in.) 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: Calibrated and raw, pixel and module

DMX channels: 192 (segment 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: 256
Luminous intensity, calibrated mode: 5000 Nit
Luminous intensity, raw mode: 6000 Nit
Viewing angle: 120° x 120°
Preliminary data, figures are approximate:

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): 0%
Protection rating: IP20
RoHS compliant

Installation
Orientation: Any
Maximum number of VC-Grid™ 16x16 15 modules per daisy-chain: 4
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): 60 W
Typical power consumption (with typical video content): 20 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): 205 BTU/hr.
Typical heat dissipation (calculated, with typical video content): 70 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 (0.9 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 P3-050™ 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™ 16x16 15 RGB: P/N 90357540

