

VC-Dot 9

VC-Dot 9 is a lightweight string of individually controllable, bright Dots useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Fully customizable and controllable via the award-winning P3 System Controller™ family and/or DMX512, it is a perfect solution for integrating LED video technology into façades, stage designs, ceilings or any other structure, indoors or out.

Mapping video onto VC-Dots goes quickly and intuitively via the P3 System Controller. No need for complex setups and time-consuming addressing. VC-Dot 9 contains nine LEDs and is available in an RGB color mixing version.

How processing works for LED video

Creative LED Video element for building and stage integration

Customizable pixel-pitch

Bright and fully calibrated for optimal consistency

FEATURES

- Can assume any form for creative freedom
- Individually controllable Dots
- Bright at 22.5 cd per Dot (raw mode)
- Maximum 36 Dots per string
- Each Dot features calibrated brightness and colors
- Various Dot spacings available
- Customizable string length
- P3 or DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- Efficient and long-lasting
- IP67 rated for permanent outdoor or indoor use
- Perfect for façade or stage integration
- Supported by integrated power and data processor (P3 PowerPort 1500™) and simple cabling system

TECHNICAL SPECIFICATIONS

Physical

Pixel dimensions: 48 x 40 x 13 mm (1.9 x 1.6 x 0.6 in.)

Pixel dimensions with dome: 48 x 40 x 31 mm (1.9 x 1.6 x 1.3 in.)

Weight: 1.8 kg (4.0 lbs.) for 36 Dots, 400 mm (15.8 in.) spacing, with 2 m (6.6 ft.) lead-in cable and connector

Maximum number of pixels per string: 36

Standard pixel spacing (pitch): 400 mm (15.8 in.)

Minimum pixel spacing (pitch): 70 mm (2.8 in.)

Maximum pixel spacing (pitch): 2000 mm (78.8 in.)

Standard lead-in cable length: 2000 mm (78.8 in.)

Maximum lead-in cable length: 5000 mm (196.9 in.)

One pixel = one Dot:

Control and Programming

Control options: Martin™ P3 System controller and/or DMX

DMX channels: 3 per RGB Dot. string or group



GALLERY



Control modes: Calibrated and raw
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: Dot-level
DMX compliance: USITT DMX512-A
RDM compliance: ANSI/ESTA E1.20

Optics

LED manufacturer: Cree

Minimum LED lifetime: 50 000 hours (to >70% luminous output)*

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

Photometric Data

Light source: Nine RGB LEDs

Luminous intensity, RGB, calibrated mode: 18 cd

Luminous intensity, RGB, raw mode: 22.5 cd

Total output, RGB, calibrated mode: 55.3 lm

Red output, RGB, calibrated mode: 14.8 lm

Green output, RGB, calibrated mode: 36.9 lm

Blue output, RGB, calibrated mode: 3.6 lm

Viewing angle: 120° x 120°

Viewing angle with dome: 180° x 180°

Preliminary data, figures are approximate:

Construction

Dot: Clear polycarbonate, clear silicone filled

Diffuser dome: White translucent polycarbonate

Mounting clip: White polycarbonate

Interconnecting cable: 6 x 20 AWG, black

Minimum cable bend radius: 26 mm (1.1 in.)

Protection rating: IP67

RoHS compliant

Installation

Orientation: Any

Connections

Power & data input to VC-Dot string from VC-Feeder™: Custom 8-pin connector, IP67-rated

Electrical

Operating voltage: 15 VDC

Power and data converter: Martin VC-Feeder™

Peak power consumption (at full intensity, full white): 2.75 W per Dot

Typical power consumption (with typical video content): 0.92 W per Dot

Figures for typical video content are indicative only and will vary:

Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 55° C

Minimum ambient temperature (Ta min.): -20° C

Peak heat dissipation (calculated, at full intensity, full white): 12 BTU/hr.

Typical heat dissipation (calculated, with typical video content): 4 BTU/hr.

Figures for typical video content are indicative only and will vary:

Approvals

EU safety: EN 60950-1

US EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

US safety: ANSI/UL 60950-1

US EMC: FCC Part 15 Class A

Canadian safety: CSA C22.2 No. 60950-1

Canadian EMC: ICES-003 Class A

Australia/NZ: C-TICK N4241

Accessories

VC-Dots ribbon cable extension, 10 m (32.8 ft.): P/N 90357230

Quick splice connectors for VC-Dots ribbon cable extension, set of 15: P/N 90357240

VC-Dots ribbon cable termination cap, set of 10: P/N 91611400

VC-Dot 9™ Diffuser Domes, set of 10: P/N 90357200

VC-Dot 9™ Diffuser Domes, Smoked, set of 10: P/N 91610108

VC-Dot 9™ Diffuser Spheres, set of 10: P/N 91611530

VC-Dot 9™ Mounting Clips, set of 10: P/N 90357170

VC-Dot 9™ Truss Clips, set of 10: P/N 91611373

VC-Dot 9™ Aluminum Mounting Profile, Black, 2 m (6.6 ft.): P/N 91611382

VC-Dot 9™ Mounting Profile Cover, Black, 2 m (6.6 ft.): P/N 91611383

VC-Dot 9™ Mounting Profile End Caps, Black, set of 10: P/N 91611384

VC-Dot 9™ Mounting Profile Cable Entry End Caps, Black, set of 10: P/N 91611385

VC-Dot 9™ Aluminum Mounting Profile, Grey, 2 m (6.6 ft.): P/N 91611394

VC-Dot 9™ Mounting Profile Cover, Grey, 2 m (6.6 ft.): P/N 91611395

VC-Dot 9™ Mounting Profile End Caps, Grey, set of 10: P/N 91611396

VC-Dot 9™ Mounting Profile Cable Entry End Caps, Grey, set of 10: P/N 91611397

VC-Dot 9™ Plastic Mounting Profile, Black, 1.2 m (4.0 ft.): P/N 91611490

VC-Dot 9™ Plastic Mounting Profile Cover, Black, 1.2 m (4.0 ft.): P/N 91611510

VC-Dot 9™ Plastic Mounting Profile, White, 1.2 m (4.0 ft.): P/N 91611500

VC-Dot 9™ Plastic Mounting Profile Cover, White, 1.2 m (4.0 ft.): P/N 91611520

Related Items

Martin P3™ PowerPort 1000 IP Installation: P/N 90721080

Martin P3™ PowerPort 1000 IP Rental: P/N 90721070

Martin VC-Feeder™: P/N 90357040

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 M-PC V3™ Pro (up to 64 DMX universes) incl. Martin USB Duo™: P/N 90732010
Martin RDM 5.5 Splitter™: P/N 90758150

Ordering Information

VC-Dot 9™ RGB, 400 mm (15.8 in.) pitch, 36 pcs., 2 m (6.6 ft.) lead-in: P/N 90357140
Strings with custom Dot pitch and lead-in length can be manufactured to special order:

