## FULLY WEATHERIZED FLEXIBLE DIRECT-VIEW LED DOTS

SPEC SHEET



### **HIGHLIGHTS**

- Creative LED Video element for building and stage integration
- Customizable pixel-pitch
- Bright and fully calibrated for optimal consistency

## **OVERVIEW**

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 outside.

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.

## **KEY MESSAGES**

## **FAMILY OF ULTIMATE CREATIVE POSSIBILITIES**

The VC-Dot family consist of three different sizes, which meets the needs of the project. White and smoked diffused domes are available for further creative looks.

#### **EASY INFRASTRUCTURE**

The VC-Dot products 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-Dot also accepts RDM/DMX, enabling even more versatile use.

#### **FLEXIBLE INSTALLATION**

The flexible string solution is fully customizable in terms of pixel pitch, number of VC-Dots, total length of string and lead-in cable. This allows for many creative designs in building or stage elements.

## **CALIBRATED COLOR AND INTENSITY**

Each VC-Dot is calibrated for color and intensity consistency across the entire Martin creative LED range.



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## **FEATURES**

- Flexible string-based direct-view LED lighting
- · Perfect for façade or stage integration
- Individually controllable VC-Dots
- Up to 36 VC-Dots per string
- Customizable VC-Dot pixel pitch and string length
- Calibrated brightness and colors for each VC-Dot
- P3 and RDM/DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- · Efficient and long-lasting
- IP67 rated for permanent outdoor or indoor use
- Simple infrastructure via VC-Feeder and P3 PowerPort
- Great number of mounting options using clips, brackets or profiles

# ORDERING INFORMATION

#### **RELATED ITEMS**

•	Martin VC-Feeder with BBD connector	. P/N	90357041
•	Martin P3 PowerPort 1000 IP Installation	. P/N	90721080
•	Martin P3 PowerPort 1000 IP Rental	. P/N	90721070
•	Martin P3 PowerPort 1500	. P/N	90721040
•	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
•	Martin IP66 Power Supply, 240 W	. P/N	90760330





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## **ORDERING INFORMATION ACCESSORIES**

CABLE ACCESSORIES:	VC-Dot 9 Plastic M     VIII
• VC-Dots ribbon cable extension, 10 m (32.8 ft.) P/N 90357230	White, 1.2 m (4.0 f
Quick splice connectors for VC-Dots ribbon cable extension, set of 15	MOUNTING ACCESSO
VC-Dots ribbon cable termination cap, set of 10 P/N 91611400	VC-Dot 9 Mounting
DOME LOOPERS DIES	<ul> <li>VC-Dot 9 Aluminus Black, 2 m (6.6 ft.)</li> </ul>
DOME ACCESSORIES:	<ul> <li>VC-Dot 9 Mounting</li> </ul>
VC-Dot 9 Diffuser Domes, set of 10	Black, 2 m (6.6 ft.)
VC-Dot 9 Diffuser Domes, Smoked, set of 10 P/N 91610108	<ul> <li>VC-Dot 9 Mounting Black, set of 10</li> </ul>
VC-Dot 9 Diffuser Spheres, set of 10	VC-Dot 9 Mounting Black, set of 10
MOUNTING ACCESSORIES FOR INDOOR USE ONLY:	
VC-Dot 9 Interior Mounting Clips, 10 pcs P/N 90357170	<ul> <li>VC-Dot 9 Aluminus Grey, 2 m (6.6 ft.)</li> </ul>
VC-Dot 9 Truss Clips, set of 10P/N 91611373	<ul> <li>VC-Dot 9 Mounting Grey, 2 m (6.6 ft.)</li> </ul>
VC-Dot 9 Plastic Mounting Profile,     Black, 1.2 m (4.0 ft.)	<ul> <li>VC-Dot 9 Mounting Grey, set of 10</li> </ul>
VC-Dot 9 Plastic Mounting Profile Cover, Black, 1.2 m (4.0 ft.)P/N 91611510	<ul> <li>VC-Dot 9 Mounting</li> </ul>
VC-Dot 9 Plastic Mounting Profile,     VC-Dot 9 Plas	Grey, set of 10

VC-Dot 9 Plastic Mounting Profile Cover, White, 1.2 m [4.0 ft.]P/N 9161	1520
MOUNTING ACCESSORIES FOR OUTDOOR AND INDOOR USE:	
VC-Dot 9 Mounting BracketP/N 91617	1303
VC-Dot 9 Aluminum Mounting Profile, Black, 2 m (6.6 ft.)P/N 91617	1382
VC-Dot 9 Mounting Profile Cover,     Black, 2 m (6.6 ft.)	1383
VC-Dot 9 Mounting Profile End Caps, Black, set of 10	1384
VC-Dot 9 Mounting Profile Cable Entry End Caps, Black, set of 10P/N 91617	1385
VC-Dot 9 Aluminum Mounting Profile, Grey, 2 m (6.6 ft.)P/N 9161	1394
VC-Dot 9 Mounting Profile Cover, Grey, 2 m [6.6 ft.]	1395
VC-Dot 9 Mounting Profile End Caps, Grey, set of 10 P/N 91617	1396
VC-Dot 9 Mounting Profile Cable Entry End Caps, Grey, set of 10	1397

# **MOUNTING OPTIONS**

## **INDOOR AND OUTDOOR USAGE**

White, 1.2 m (4.0 ft.)......P/N 91611500

Aluminum Mounting Bracket	Aluminum Mounting Profile
10000	
Grey Color	Black or Grey Color

### **INDOOR USAGE ONLY**

Plastic Mounting Clip	Plastic Mounting Profile
White Color	Black or White Color



# FULLY WEATHERIZED FLEXIBLE DIRECT-VIEW LED DOTS

## **TECHNICAL SPECIFICATIONS**

### **CONTROL AND PROGRAMMING**

Control options	Martin™ P3 System controller and/or DMX
DMX channels	3 per RGB Dot, string or group
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**

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

## PHOTOMETRIC DATA

Light source	Nine RGB LED
Luminous intensity, RGB, calibrated mode	18 cd
Luminous intensity, RGB, raw mode $\ldots$	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 $\ldots\ldots$	3.6 lm
Viewing angle	127° x 127°
Viewing angle with dome	180° x 180°

### **CONSTRUCTION**

Dot	. Clear polycarbonate, clear silicone filled
Diffuser dome	White or smoked 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 <sup>™</sup>	Custom 8-pin connector, IP67-rated

#### **ELECTRICAL**

Uperating 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 v	ideo content): 0.92 W per Dot
Figures for typical video content are ind	licative only and will vary

#### **THERMAL**

Cooling	. Convection
Maximum ambient temperature (Ta max.)	55° C (131°F)
Minimum ambient temperature (Ta min.)	20° C (14°F)
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 in	dicative only and will vary

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### **APPROVALS**

EU safety	EN 60950-1
EU EMC	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety	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/N7	C-TICK N4241









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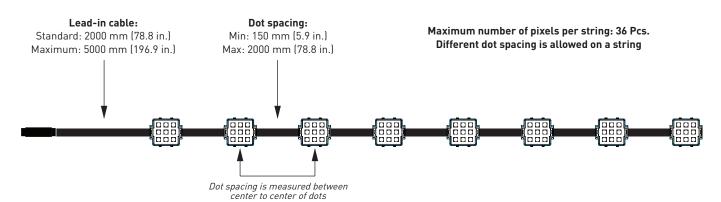
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## **CONFIGURATION**

### 2m LEAD-IN CABLE

## 5m LEAD-IN CABLE (MAX)

Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]	Total String Length	Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]	Total String Length
150	36	7.25 m (23.8 ft.)	150	36	10.25 m (33.6 ft.)
200	36	14.6 m (47.9 ft.)	200	36	12.0 m (39.4 ft.)
300	36	12.5 m (41.0 ft.)	300	36	15.5 m (50.9 ft.)
400	36 Std. Ver.	16.0 m (52.5 ft.)	400	36	19.0 m (62.3 ft.)
500	36	19.5 m (64.0 ft.)	500	33	21.0 m (68.9 ft.)
600	35	22.4 m (73.5 ft.)	600	31	23.0 m (75.5 ft.)
700	33	24.4 m (80.1 ft.)	700	29	24.6 m (80.7 ft.)
800	31	26.0 m (85.3 ft.)	800	28	26.6 m (87.3 ft.)
900	30	28.1 m (92.2 ft.)	900	27	28.4 m (93.2 ft.)
1000	29	30.0 m (98.4 ft.)	1000	26	30.0 m (98.4 ft.)
1100	27	30.6 m (100.4 ft.)	1100	25	31.4 m (103.0 ft.)
1200	26	32.0 m (105.0 ft.)	1200	24	32.6 m (107.0 ft.)
1300	26	34.5 m (113.2 ft.)	1300	23	33.6 m (110.2 ft.)
1400	25	35.6 m (116.8 ft.)	1400	23	35.8 m (117.5 ft.)
1500	24	36.5 m (119.8 ft.)	1500	21	35.0 m (114.8 ft.)
1600	23	37.2 m (122.0 ft.)	1600	21	37.0 m (121.4 ft.)
1700	23	39.4 m (129.3 ft.)	1700	21	39.0 m (128.0 ft.)
1800	22	39.8 m (130.6 ft.)	1800	20	39.2 m (128.6 ft.)
1900	22	41.9 m (137.5 ft.)	1900	20	41.1 m (134.8 ft.)
2000	21	42.0 m (137.8 ft.)	2000	20	43.0 m (141.1 ft.)



Please contact your local sales person for customized VC-Dot strings.

Refer to system diagrams for detailed system configuration



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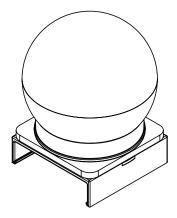
SPEC SHEET

## **DIMENSIONS**

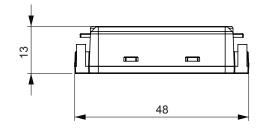
### **PHYSICAL**

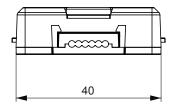
Maximum lead-in cable length ......5000 mm (196.9 in.)

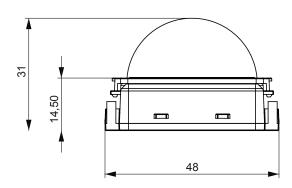
One pixel = one Dot

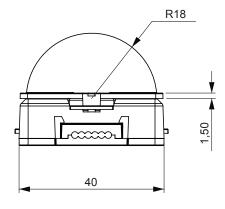


Diffuser Sphere - Indoor only









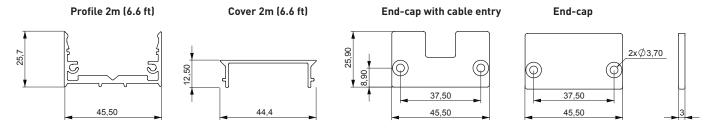
All dimensions are in mm



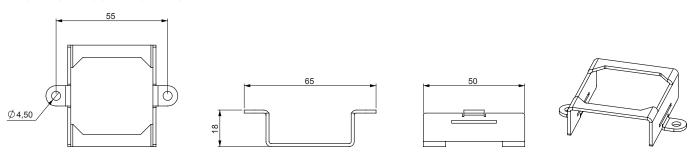
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## **INDOOR AND OUTDOOR USAGE**

### **ALUMINUM MOUNTING PROFILE**

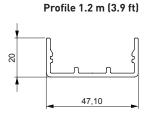


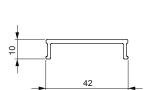
## **ALUMINUM MOUNTING BRACKET**



## **INDOOR USAGE ONLY**

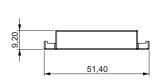
## **PLASTIC MOUNTING PROFILE**

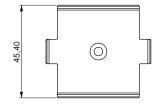


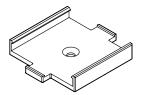


Cover 1.2 m (3.9 ft)

## **PLASTIC MOUNTING CLIP**







All dimensions are in mm

