#### 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 4 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 4 contains four 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 diffussed 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.



## FULLY WEATHERIZED FLEXIBLE DIRECT-VIEW LED DOTS

SPEC SHEET

## **FEATURES**

- Flexible string-based direct-view LED lighting
- · Perfect for façade or stage integration
- Individually controllable VC-Dots
- Up to 64 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







## FULLY WEATHERIZED FLEXIBLE DIRECT-VIEW LED DOTS

SPEC SHEET

## **ORDERING INFORMATION ACCESSORIES**

CABLE 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		
•	VC-Dots ribbon cable termination cap, set of 10 P/N 91611400 $$		
DO	DME ACCESSORIES:		
•	VC-Dot 4 Diffuser Domes, set of 10		
•	VC-Dot 4 Diffuser Domes, Smoked, set of 10 P/N 91610109		
MOUNTING ACCESSORIES FOR INDOOR USE ONLY:			
•	VC-Dot 4 Interior Mounting Clips, 10 pcsP/N 90357220		
•	VC-Dot 4 Truss Clips, set of 10		
•	VC-Dot 4 Plastic Mounting Profile, Black, 1.2 m (4.0 ft.)		

VC-Dot 4 Plastic Mounting Profile Cover, White, 1.2 m (4.0 ft.)	P/N 91611480
MOUNTING ACCESSORIES FOR OUTDOOR AND INI	DOOR USE:
VC-Dot 4 Mounting Bracket	P/N 91611302
VC-Dot 4 Aluminum Mounting Profile, Black, 2 m (6.6 ft.)	P/N 91611378
VC-Dot 4 Mounting Profile Cover, Black, 2 m (6.6 ft.)	P/N 91611379
VC-Dot 4 Mounting Profile End Caps, Black, set of 10	P/N 91611380
VC-Dot 4 Mounting Profile Cable Entry End Cap Black, set of 10	
VC-Dot 4 Aluminum Mounting Profile, Grey, 2 m (6.6 ft.)	P/N 91611390
VC-Dot 4 Mounting Profile Cover, Grey, 2 m (6.6 ft.)	P/N 91611391
VC-Dot 4 Mounting Profile End Caps, Grey, set of 10	P/N 91611392
VC-Dot 4 Mounting Profile Cable Entry End Cap Grov. set of 10.	ps, D/N 01411303

## **MOUNTING OPTIONS**

• VC-Dot 4 Plastic Mounting Profile Cover,

VC-Dot 4 Plastic Mounting Profile,

#### **INDOOR AND OUTDOOR USAGE**

Aluminum Mounting Bracket	Aluminum Mounting Profile
	169
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

SPEC SHEET

## **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	Four RGB LED
Luminous intensity, RGB, calibrated mode	6 cd
Luminous intensity, RGB, raw mode $\dots$	7.5 cd
Total output, RGB, calibrated mode	18.8 lm
Red output, RGB, calibrated mode	5.2 lm
Green output, RGB, calibrated mode	12.3 lm
Blue output, RGB, calibrated mode	1.4 lm
Viewing angle	127° x 127°
Viewing angle with dome	180° x 180°

#### **CONSTRUCTION**

Clear polycarbonate, clear silicone filled
White or smoked translucent polycarbonate
White polycarbonate
6 x 20 AWG, black
26 mm (1.1 in.)
IP67

#### **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)	1.50 W per Dot
Typical power consumption (with typical v	ideo content): 0.50 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)	. 6.5 BTU/hr.
Typical heat dissipation (calculated, with typical video content)	. 2.5 BTU/hr.
Figures for typical video content are in	disative only and will yary

Figures for typical video content are indicative only and will vary

#### **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/NZ	C-TICK N4241









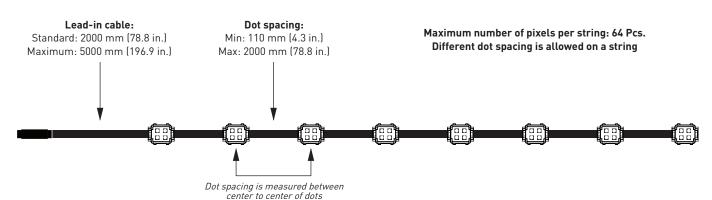
SPEC SHEET

## **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
110	64	8.93 m (29.3 ft.)	110	64	11.93 m (39.1 ft.)
200	64 Std. Ver.	14.6 m (47.9 ft.)	200	64	17.6 m (57.7 ft.)
300	64	20.9 m (68.6 ft.)	300	64	23.9 m (78.4 ft.)
400	64	27.2 m (89.2 ft.)	400	64	30.2 m (99.1 ft.)
500	64	33.5 m (109.9 ft.)	500	64	36.5 m (119.8 ft.)
600	64	39.8 m (130.6 ft.)	600	64	42.8 m (140.4 ft.)
700	64	46.1 m (151.2 ft.)	700	64	49.1 m (161.1 ft.)
800	64	52.4 m (171.9 ft.)	800	62	53.8 m (176.5 ft.)
900	62	56.9 m (186.7 ft.)	900	59	57.2 m (187.7 ft.)
1000	59	60.0 m (196.9 ft.)	1000	56	60.0 m (196.9 ft.)
1100	57	63.6 m (208.7 ft.)	1100	54	63.3 m (207.7 ft.)
1200	54	65.6 m (215.2 ft.)	1200	52	66.2 m (217.2 ft.)
1300	53	69.6 m (228.3 ft.)	1300	50	68.7 m (225.4 ft.)
1400	51	72.0 m (236.2 ft.)	1400	49	72.2 m (236.9 ft.)
1500	49	74.0 m (242.8 ft.)	1500	47	74.0 m (242.8 ft.)
1600	48	77.2 m (253.3 ft.)	1600	46	77.0 m (252.6 ft.)
1700	46	78.5 m (257.5 ft.)	1700	45	79.8 m (261.8 ft.)
1800	45	81.2 m (266.4 ft.)	1800	43	80.6 m (264.4 ft.)
1900	44	83.7 m (274.6 ft.)	1900	42	82.9 m (272.0 ft.)
2000	43	86.0 m (282.2 ft.)	2000	41	85.0 m (278.9 ft.)



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

Refer to system diagrams for detailed system configuration



## FULLY WEATHERIZED FLEXIBLE DIRECT-VIEW LED DOTS

SPEC SHEET

## **DIMENSIONS**

#### **PHYSICAL**

 Pixel dimensions
 36 x 30 x 13 mm {1.5 x 1.2 x 0.6 in.}

 Pixel dimensions with dome
 36 mm x 30 mm x 27 mm {1.5 x 1.2 x 1.1 in.}

 Weight
 1.8 kg [4.0 lbs.] for 64 Dots, 200 mm [7.9 in.] spacing, with 2 m [6.6 ft.] lead-in cable and connector

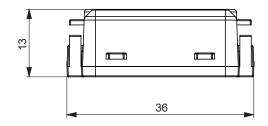
 Maximum number of pixels per string
 64

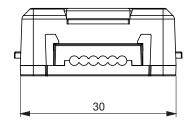
 Standard pixel spacing (pitch)
 200 mm [7.9 in.]

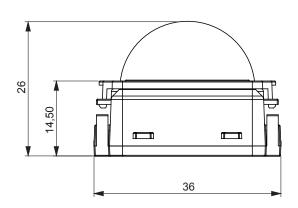
 Minimum pixel spacing (pitch)
 110 mm [4.3 in.]

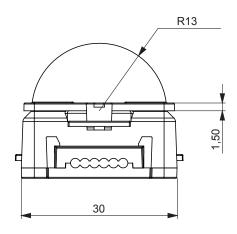
 Maximum pixel spacing (pitch)
 2000 mm [78.8 in.]

One pixel = one Dot









All dimensions are in mm



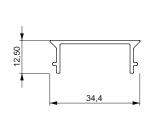
SPEC SHEET

## **INDOOR AND OUTDOOR USAGE**

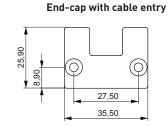
#### **ALUMINUM MOUNTING PROFILE**

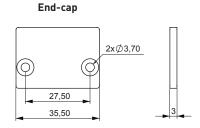
Profile 2m (6.6 ft)

35,50

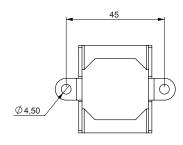


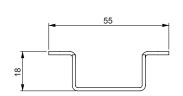
Cover 2m (6.6 ft)

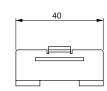




#### **ALUMINUM MOUNTING BRACKET**





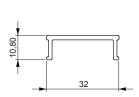




## **INDOOR USAGE ONLY**

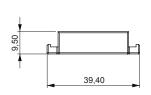
#### **PLASTIC MOUNTING PROFILE**

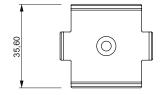
Profile 1.2 m (3.9 ft)

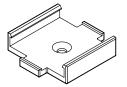


Cover 1.2 m (3.9 ft)

#### **PLASTIC MOUNTING CLIP**







All dimensions are in mm

