

# GENERIC SYSTEM DIAGRAM – VC-DOT 4 WITH P3 CONTROL (PowerPort 1500)

## P3 Controllers



**P3-PC™**  
P/N 90721030

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 500 VC-Dot strings



**Martin P3-050 Controller™**  
Video signal processor  
P/N 90721090

- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI Video input



**Martin P3-150 Controller™**  
Video signal processor  
P/N 90721015

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI Video input



**Martin P3-300 Controller™**  
Video signal processor  
P/N 90721060

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI or 3G-SDI Video input

Maximum 100m Ethernet Cable between any 2 devices (extendable via Gigabit Switch or conversion to fiber)

CAT5E STP CABLES (PROVIDED BY OTHERS)

## VC-Dot 4 generic layout

**Martin P3- PowerPort 1500™**  
P/N 90721040

—To next P3 PowerPort

**4-pin XLR-BBD Adaptor**  
P/N 91616046

**Hybrid Power+Data Cable CMX BBD-BBD**

- P/N 91616055 (1m)
- P/N 91616056 (2,5m)
- P/N 91616057 (5m)
- P/N 91616058 (10m)
- P/N 91616059 (25m)
- P/N 91616060 (100m raw cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)

**Low Smoke Zero Halogen (LSZH) version:**

- P/N 91616012 (1m)
- P/N 91616013 (2,5m)
- P/N 91616014 (5m)
- P/N 91616015 (10m)
- P/N 91616016 (25m)
- P/N 91616017 (100m raw cable)

**VC-Feeder™**  
with BBD Connector  
P/N 90357041

**VC-Dot 4™**  
P/N 90357100

**Standard VC-Dot 4 configuration:**

- LED color: RGB
- Pitch: 200 mm (7.9 in.)
- No. of Dots: 64 pcs.
- Lead-in: 2 m (6.6 ft.)

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not required if VC-Feeders are mounted next to each other (<20cm))

**VC-Feeder™**  
with BBD Connector  
P/N 90357041

**VC-Dot 4™**

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not needed if VC-Feeders are mounted next to each other (<20cm))

Total length from PowerPort to last VC-Feeder should be less than **50m** (not including the VC-Dot string itself)

Up to 4 daisy-chains per Powerport (one per output)

**Maximum VC-Dot 4 per PowerPort**  
Up to 768 VC-Dot 4's per P3 PowerPort

**Maximum VC-Dot 4 per output**  
Up to 192 VC-Dot 4's per daisy-chain

**Examples:**

- 3 strings of 64 VC-Dot 4's or
- 4 strings of 48 VC-Dot 4's or
- 6 strings of 32 VC-Dot 4's or ...

2m Lead-in Cable		5m Lead-in Cable (max)	
Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]	Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]
110	64	110	64
200	64 Std. Ver.	200	64
300	64	300	64
400	64	400	64
500	64	500	64
600	64	600	64
700	64	700	64
800	64	800	62
900	62	900	59
1000	59	1000	56
1100	57	1100	54
1200	54	1200	52
1300	53	1300	50
1400	51	1400	49
1500	49	1500	47
1600	48	1600	46
1700	46	1700	45
1800	45	1800	43
1900	44	1900	42
2000	43	2000	41

**Configuration limitations:**

Maximum number of pixels per string:	64 Pcs.
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.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)

One pixel = one Dot

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

# GENERIC SYSTEM DIAGRAM – VC-DOT 4 WITH P3 CONTROL (PowerPort 1000 IP65)

## P3 Controllers



**P3-PC™**  
P/N 90721030

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 500 VC-Dot strings



**Martin P3-050 Controller™**  
Video signal processor  
P/N 90721090

- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI Video input



**Martin P3-150 Controller™**  
Video signal processor  
P/N 90721015

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI Video input



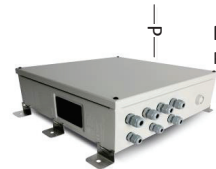
**Martin P3-300 Controller™**  
Video signal processor  
P/N 90721060

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI or 3G-SDI Video input

Maximum 100m Ethernet Cable between any 2 devices (extendable via Gigabit Switch or conversion to fiber)

CAT5E STP CABLES (PROVIDED BY OTHERS)

## VC-Dot 4 generic layout



**Martin P3- PowerPort 1000 IP65™**  
P/N 90721080  
To next P3 PowerPort 1000 IP65

### Hybrid Power+Data Cable CMX BBD-BBD

- P/N 91616055 (1m)
- P/N 91616056(2,5m)
- P/N 91616057 (5m)
- P/N 91616058 (10m)
- P/N 91616059 (25m)
- P/N 91616060 (100m raw cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)

### Low Smoke Zero Halogen (LSZH) version:

- P/N 91616012 (1m)
- P/N 91616013(2,5m)
- P/N 91616014 (5m)
- P/N 91616015 (10m)
- P/N 91616016 (25m)
- P/N 91616017 (100m raw cable)



**VC-Feeder™**  
with BBD Connector  
P/N 90357041



**VC-Dot 4™**  
P/N 90357100

### Standard VC-Dot 4 configuration:

- LED color: RGB
- Pitch: 200 mm (7.9 in.)
- No. of Dots: 64 pcs.
- Lead-in: 2 m (6.6 ft.)

### Hybrid Power+Data Cable CMX BBD-BBD

(Not required if VC-Feeders are mounted next to each other (<20cm))



**VC-Feeder™**  
with BBD Connector  
P/N 90357041



**VC-Dot 4™**

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not needed if VC-Feeders are mounted next to each other (<20cm))

Up to 4 daisy-chains per Powerport  
(one per output)

**Maximum VC-Dot 4 per PowerPort**  
Up to 512 VC-Dot 4's per P3 PowerPort

**Maximum VC-Dot 4 per output**  
Up to 128 VC-Dot 4's per daisy-chain

### Examples:

- 2 strings of 64 VC-Dot 4's or
- 4 strings of 32 VC-Dot 4's or
- 8 strings of 16 VC-Dot 4's or ...

2m Lead-in Cable		5m Lead-in Cable (max)	
Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]	Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]
110	64	110	64
200	64 Std. Ver.	200	64
300	64	300	64
400	64	400	64
500	64	500	64
600	64	600	64
700	64	700	64
800	64	800	62
900	62	900	59
1000	59	1000	56
1100	57	1100	54
1200	54	1200	52
1300	53	1300	50
1400	51	1400	49
1500	49	1500	47
1600	48	1600	46
1700	46	1700	45
1800	45	1800	43
1900	44	1900	42
2000	43	2000	41

### Configuration limitations:

Maximum number of pixels per string:	64 Pcs.
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.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)

One pixel = one Dot

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

DMX Source

# GENERIC SYSTEM DIAGRAM – VC-DOT 4 WITH DMX CONTROL

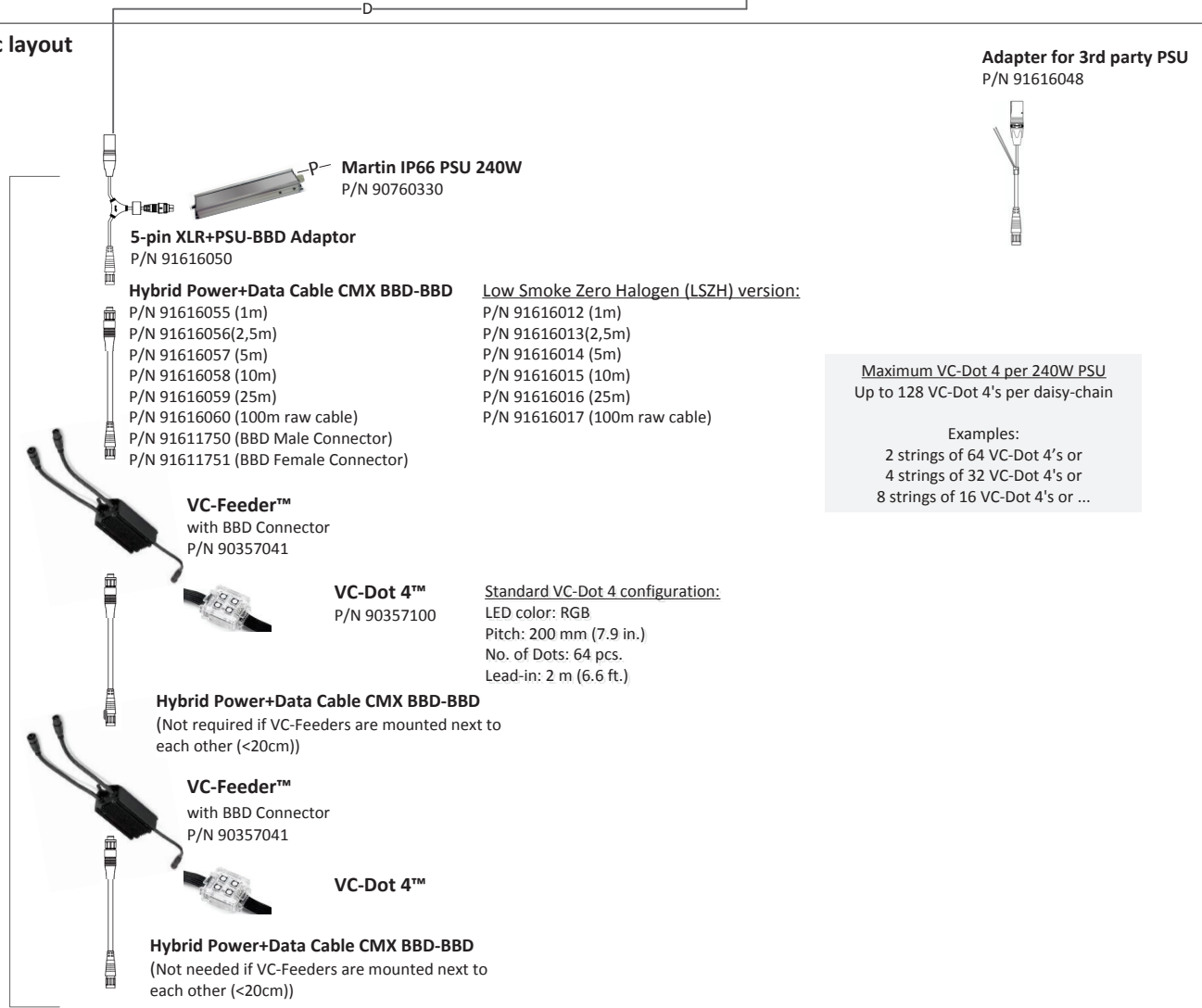


(PROVIDED BY OTHERS)

### DMX limitations with Pixel-level control (1 universe)

VC-Dot 4:	170 dots
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### VC-Dot 4 generic layout



Total length from PowerPort to last VC-Feeder should be less than **50m** (not including the VC-Dot string itself)

2m Lead-in Cable		5m Lead-in Cable (max)	
Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]	Dot Spacing [mm]	Max. Number Of Dots per String/ VC-Feeder [Pcs]
110	64	110	64
200	64 Std. Ver.	200	64
300	64	300	64
400	64	400	64
500	64	500	64
600	64	600	64
700	64	700	64
800	64	800	62
900	62	900	59
1000	59	1000	56
1100	57	1100	54
1200	54	1200	52
1300	53	1300	50
1400	51	1400	49
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Configuration limitations:	
Maximum number of pixels per string:	64 Pcs.
Standard pixel spacing (pitch):	200 mm (7.9 in.)
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Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)
One pixel = one Dot	

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

**CABLES:**  
D - DMX CABLE F - FIBER OPTIC CABLE (PROVIDED BY OTHERS) H - HYBRID CABLE (PROVIDED BY MARTIN) P - POWER CABLE V - DVI VIDEO (PROVIDED BY OTHERS) N - CAT6 STP CABLE (PROVIDED BY OTHERS)

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