

**P3 Controllers**

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



**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)

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 ...

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

**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))  
**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

Install blanking caps on all unused female connectors at end of chains

| 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.

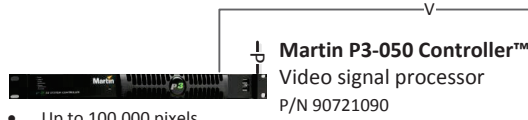
**P3 Controllers**

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

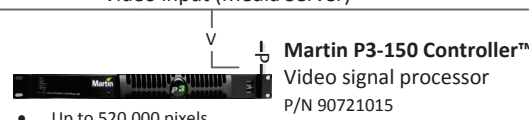


**P3-PC™**  
P/N 90721030

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



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



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

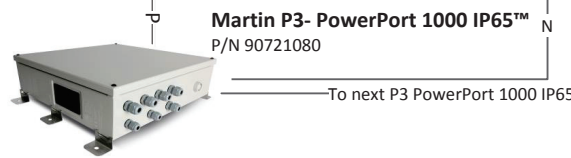


- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot strings
- DVI or 3G-SDI Video input

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



**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))

**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

Install blanking caps on all unused female connectors at end of chains

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  |
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| 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

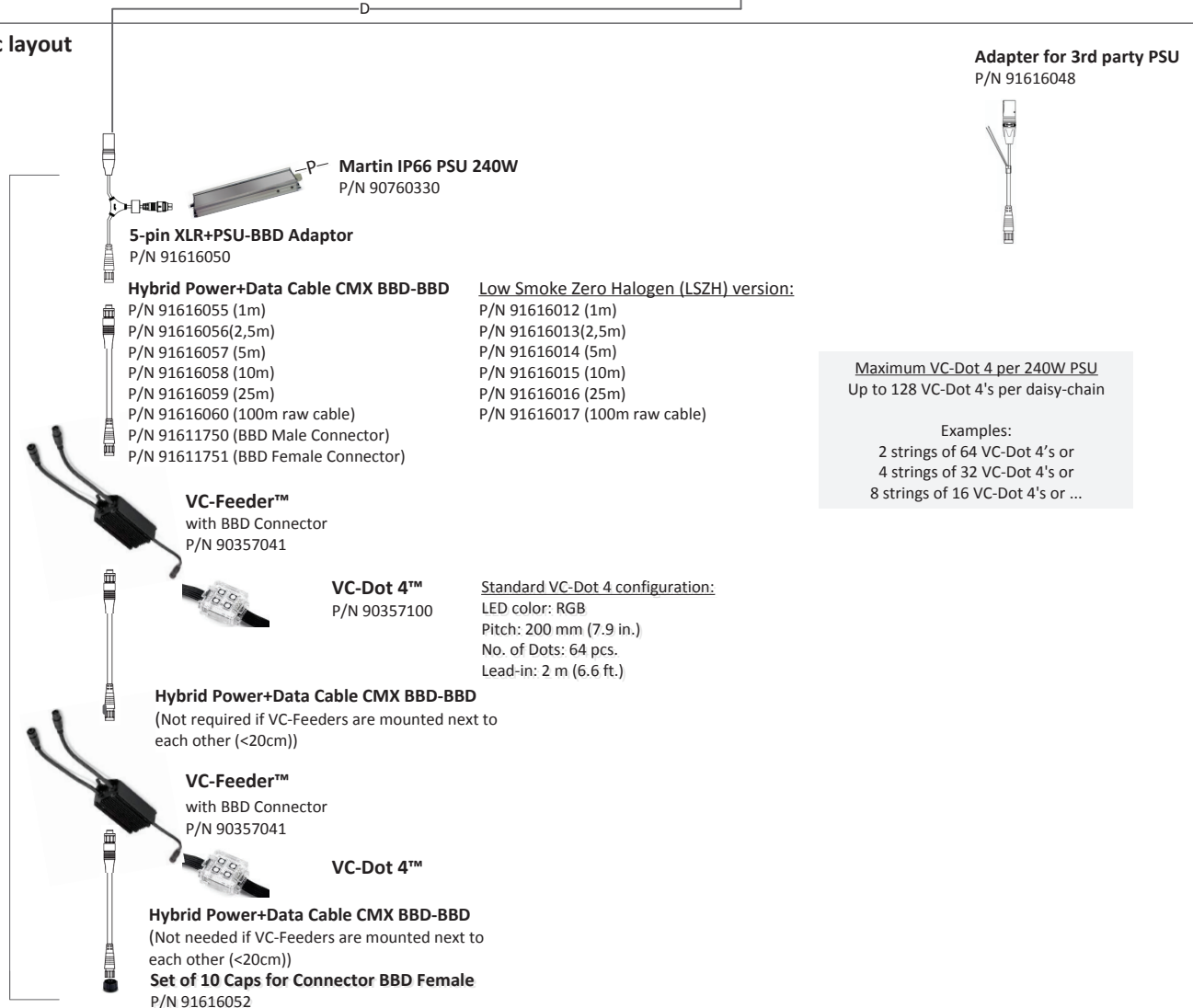
# GENERIC SYSTEM DIAGRAM – VC-DOT 4 WITH DMX CONTROL



(PROVIDED BY OTHERS)

| DMX limitations with Pixel-level control (1 universe) |          |
|---|----------|
| VC-Dot 4:   | 170 dots |

## 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)

Install blanking caps on all unused female connectors at end of chains

| 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  |
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| Configuration limitations:           |                     |
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| 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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