

GENERIC SYSTEM DIAGRAM – VC-DOT 1 WITH P3 CONTROL (PowerPort 1500)



P3 Controllers



Internal Video input

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 500 VC-Dot 1

DVI Video input



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 1

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 1

DVI or 3G-SDI 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 1

Media Server (Provided by others)

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

VC-Dot 1 generic layout

Martin P3- PowerPort 1500™
P/N 90721040



N — 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 1 per PowerPort
Up to 1200 VC-Dot 1's per P3 PowerPort

Maximum VC-Dot 1 per output
Up to 300 VC-Dot 1's per daisy-chain

Examples:

- 3 strings of 100 VC-Dot 1's or
- 4 strings of 75 VC-Dot 1's or
- 5 strings of 60 VC-Dot 1'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 1™
P/N 90357060

Standard VC-Dot 1 configuration:

- LED color: RGB
- Pitch: 100 mm (4.0 in.)
- No. of Dots: 100 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 1™

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]
100	100 Std. Ver.	100	100
200	100	200	100
300	100	300	100
400	100	400	100
500	100	500	100
600	100	600	100
700	100	700	100
800	100	800	96
900	95	900	91
1000	90	1000	87

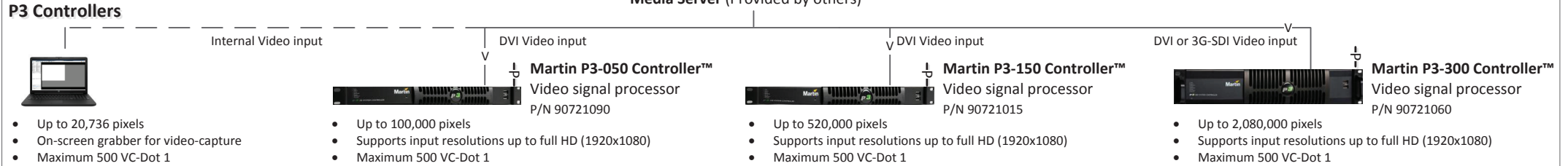
Configuration limitations:

Maximum number of pixels per string: Standard pixel spacing (pitch): Minimum pixel spacing (pitch): Maximum pixel spacing (pitch): Standard lead-in cable length: Maximum lead-in cable length:	100 Pcs. 100 mm (4.0 in.) 100 mm (4.0 in.) 1000 mm (39.4 in.) 2000 mm (78.8 in.) 5000 mm (196.9 in.)
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One pixel = one Dot

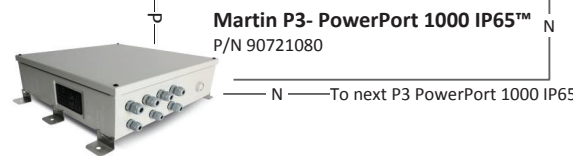
Please contact your local sales person for customized VC-Dot strings.

GENERIC SYSTEM DIAGRAM – VC-DOT 1 WITH P3 CONTROL (PowerPort 1000 IP65)



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

VC-Dot 1 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 1™
P/N 90357060

Standard VC-Dot 1 configuration:

LED color: RGB
Pitch: 100 mm (4.0 in.)
No. of Dots: 100 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 1™

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

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

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

Maximum VC-Dot 1 per PowerPort
Up to 800 VC-Dot 1's per P3 PowerPort

Maximum VC-Dot 1 per output
Up to 200 VC-Dot 1's per daisy-chain

Examples:

2 strings of 100 VC-Dot 1's or
4 strings of 50 VC-Dot 1's or
8 strings of 25 VC-Dot 1'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]
100	100 Std. Ver.	100	100
200	100	200	100
300	100	300	100
400	100	400	100
500	100	500	100
600	100	600	100
700	100	700	100
800	100	800	96
900	95	900	91
1000	90	1000	87

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	100 mm (4.0 in.)
Minimum pixel spacing (pitch):	100 mm (4.0 in.)
Maximum pixel spacing (pitch):	1000 mm (39.4 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 1 WITH DMX CONTROL

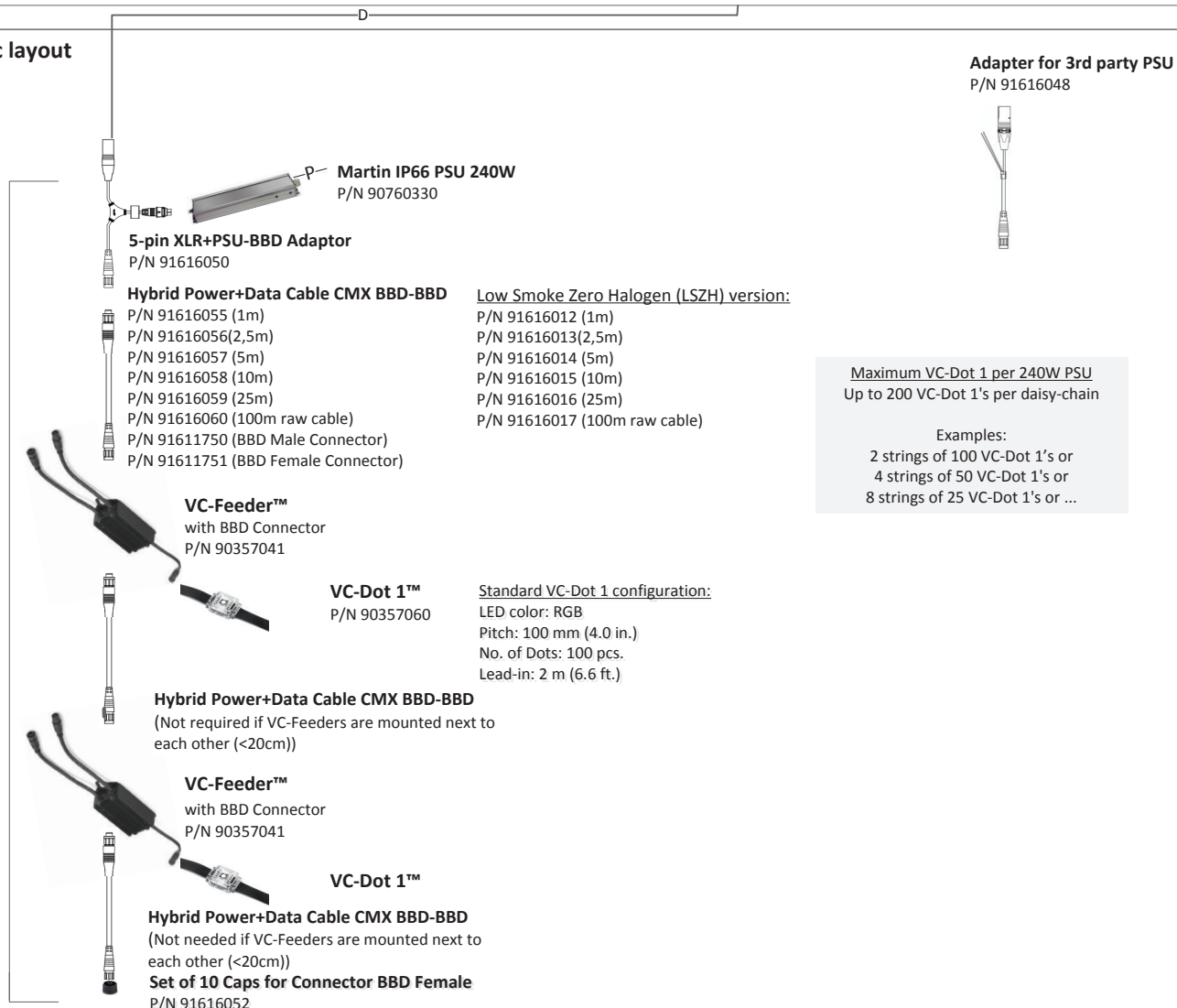


(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)

VC-Dot 1: 170 dots

VC-Dot 1 generic layout



Maximum VC-Dot 1 per 240W PSU
Up to 200 VC-Dot 1's per daisy-chain

Examples:
2 strings of 100 VC-Dot 1's or
4 strings of 50 VC-Dot 1's or
8 strings of 25 VC-Dot 1'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]
100	100 Std. Ver.	100	100
200	100	200	100
300	100	300	100
400	100	400	100
500	100	500	100
600	100	600	100
700	100	700	100
800	100	800	96
900	95	900	91
1000	90	1000	87

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	100 mm (4.0 in.)
Minimum pixel spacing (pitch):	100 mm (4.0 in.)
Maximum pixel spacing (pitch):	1000 mm (39.4 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.

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

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DMX Source

GENERIC SYSTEM DIAGRAM – VC-DOT 1 WITH DMX CONTROL (DMX PowerPort 375)



(PROVIDED BY OTHERS)

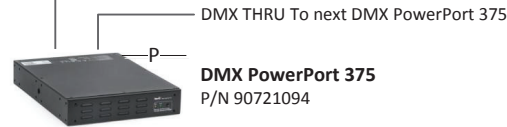


(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)

VC-Dot 1: 170 dots

VC-Dot 1 generic layout



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:

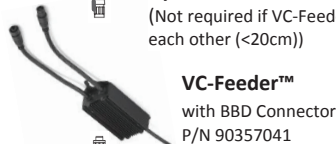
- P/N 91616012 (1m)
- P/N 91616013(2,5m)
- P/N 91616014 (5m)
- P/N 91616015 (10m)
- P/N 91616016 (25m)
- P/N 91616017 (100m raw cable)



VC-Dot 1™
P/N 90357060

Standard VC-Dot 1 configuration:

LED color: RGB
Pitch: 100 mm (4.0 in.)
No. of Dots: 100 pcs.
Lead-in: 2 m (6.6 ft.)



VC-Dot 1™

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

Total lenght 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

Maximum VC-Dot 1 per DMX PowerPort 375 (240V input)

Up to 300 VC-Dot 1's per daisy-chain

Examples:

- 3 strings of 100 VC-Dot 1's or
- 4 strings of 75 VC-Dot 1's or
- 5 strings of 60 VC-Dot 1's or ...

Maximum VC-Dot 1 per DMX PowerPort 375 (120V input)

Up to 200 VC-Dot 1's per daisy-chain

Examples:

- 2 strings of 100 VC-Dot 1's or
- 4 strings of 50 VC-Dot 1's or
- 8 strings of 25 VC-Dot 1'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]
100	100 Std. Ver.	100	100
200	100	200	100
300	100	300	100
400	100	400	100
500	100	500	100
600	100	600	100
700	100	700	100
800	100	800	96
900	95	900	91
1000	90	1000	87

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	100 mm (4.0 in.)
Minimum pixel spacing (pitch):	100 mm (4.0 in.)
Maximum pixel spacing (pitch):	1000 mm (39.4 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.