GENERIC SYSTEM DIAGRAM – VC-DOT 9 WITH P3 CONTROL (PowerPort 1500)

Media Server (Provided by others)

P3 Controllers

Internal Video input

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 500 VC-Dot 9

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 9

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 9

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 9

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

VC-Dot 9 generic layout

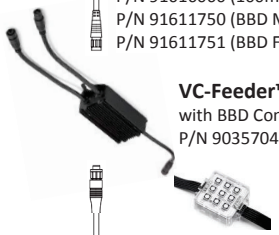
Martin P3- PowerPort 1500™
P/N 90721040

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)



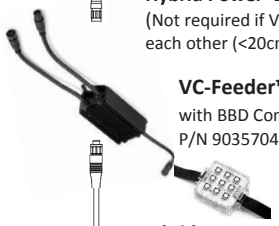
VC-Feeder™
with BBD Connector
P/N 90357041

VC-Dot 9™
P/N 90357140

Standard VC-Dot 9 configuration:
LED color: RGB
Pitch: 400 mm (15.8 in.)
No. of Dots: 36 pcs.
Lead-in: 2 m (6.6 ft.)

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

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 9™

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 9 per PowerPort
Up to 432 VC-Dot 9's per P3 PowerPort

Maximum VC-Dot 9 per output
Up to 108 VC-Dot 9's per daisy-chain

Examples:
3 strings of 36 VC-Dot 9's or
4 strings of 27 VC-Dot 9's or
6 strings of 18 VC-Dot 9'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]
150	36	110	36
200	36	200	36
300	36	300	36
400	36 Std. Ver.	400	36
500	36	500	33
600	35	600	31
700	33	700	29
800	31	800	28
900	30	900	27
1000	29	1000	26
1100	27	1100	25
1200	26	1200	24
1300	26	1300	23
1400	25	1400	23
1500	24	1500	21
1600	23	1600	21
1700	23	1700	21
1800	22	1800	20
1900	22	1900	20
2000	21	2000	20

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (15.8 in.)
Minimum pixel spacing (pitch):	150 mm (5.9 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.

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 - CAT6E STP CABLE (PROVIDED BY OTHERS)

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GENERIC SYSTEM DIAGRAM – VC-DOT 9 WITH P3 CONTROL (PowerPort 1000 IP65)

Media Server (Provided by others)

P3 Controllers

Internal Video input

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 500 VC-Dot 9

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 9

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 9

DVI or 3G-SDI Video input

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

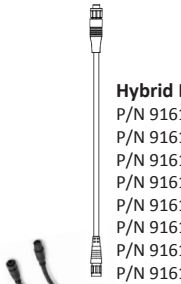
- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 500 VC-Dot 9

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

VC-Dot 9 generic layout

Martin P3- PowerPort 1000 IP65™
P/N 90721080

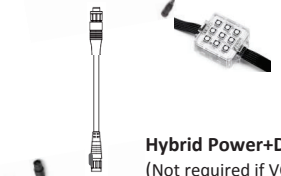
N — To next P3 PowerPort 1000 IP65



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 9™
P/N 90357140

Standard VC-Dot 9 configuration:
LED color: RGB
Pitch: 400 mm (15.8 in.)
No. of Dots: 36 pcs.
Lead-in: 2 m (6.6 ft.)

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

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 9™

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

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

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

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

Maximum VC-Dot 9 per PowerPort
Up to 288 VC-Dot 9's per P3 PowerPort

Maximum VC-Dot 9 per output
Up to 72 VC-Dot 9's per daisy-chain

Examples:
2 strings of 36 VC-Dot 9's or
4 strings of 18 VC-Dot 9's or
8 strings of 9 VC-Dot 9'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]**
150	36	110	36
200	36	200	36
300	36	300	36
400	36 Std. Ver.	400	36
500	36	500	33
600	35	600	31
700	33	700	29
800	31	800	28
900	30	900	27
1000	29	1000	26
1100	27	1100	25
1200	26	1200	24
1300	26	1300	23
1400	25	1400	23
1500	24	1500	21
1600	23	1600	21
1700	23	1700	21
1800	22	1800	20
1900	22	1900	20
2000	21	2000	20

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (15.8 in.)
Minimum pixel spacing (pitch):	150 mm (5.9 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.

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 - CAT6E STP CABLE (PROVIDED BY OTHERS)

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GENERIC SYSTEM DIAGRAM – VC-DOT 9 WITH DMX CONTROL

DMX Source

(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)	
VC-Dot 9:	170 dots

VC-Dot 9 generic layout

D

Martin IP66 PSU 240W
P/N 90760330

5-pin XLR+PSU-BBD Adaptor
P/N 91616050

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)

Adapter for 3rd party PSU
P/N 91616048

Maximum VC-Dot 9 per 240W PSU
Up to 72 VC-Dot 9's per daisy-chain

Examples:
2 strings of 36 VC-Dot 9's or
4 strings of 18 VC-Dot 9's or
8 strings of 9 VC-Dot 9's or ...

VC-Feeder™
with BBD Connector
P/N 90357041

VC-Dot 9™
P/N 90357140

Standard VC-Dot 9 configuration:
LED color: RGB
Pitch: 400 mm (15.8 in.)
No. of Dots: 36 pcs.
Lead-in: 2 m (6.6 ft.)

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

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 9™

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

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

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

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]**
150	36	110	36
200	36	200	36
300	36	300	36
400	36 Std. Ver.	400	36
500	36	500	33
600	35	600	31
700	33	700	29
800	31	800	28
900	30	900	27
1000	29	1000	26
1100	27	1100	25
1200	26	1200	24
1300	26	1300	23
1400	25	1400	23
1500	24	1500	21
1600	23	1600	21
1700	23	1700	21
1800	22	1800	20
1900	22	1900	20
2000	21	2000	20

Configuration limitations:	
Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (15.8 in.)
Minimum pixel spacing (pitch):	150 mm (5.9 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.

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 - CAT6E STP CABLE (PROVIDED BY OTHERS)

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GENERIC SYSTEM DIAGRAM – VC-DOT 9 WITH DMX CONTROL (DMX PowerPort 375)

DMX Source

(PROVIDED BY OTHERS)

(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)	
VC-Dot 9:	170 dots

VC-Dot 9 generic layout

D

DMX THRU To next DMX PowerPort 375

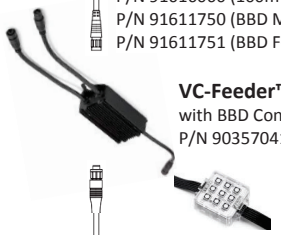
P

DMX PowerPort 375
P/N 90721094

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 9™
P/N 90357140

Standard VC-Dot 9 configuration:
LED color: RGB
Pitch: 400 mm (15.8 in.)
No. of Dots: 36 pcs.
Lead-in: 2 m (6.6 ft.)

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

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 9™

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

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

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

Maximum VC-Dot 9 per DMX PowerPort 375
(240V input)
Up to 108 VC-Dot 9's per daisy-chain

Examples:
3 strings of 36 VC-Dot 9's or
4 strings of 27 VC-Dot 9's or
6 strings of 18 VC-Dot 9's or ...

Maximum VC-Dot 9 per DMX PowerPort 375
(120V input)
Up to 72 VC-Dot 9's per daisy-chain

Examples:
2 strings of 36 VC-Dot 9's or
4 strings of 18 VC-Dot 9's or
8 strings of 9 VC-Dot 9'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]**
150	36	110	36
200	36	200	36
300	36	300	36
400	36 Std. Ver.	400	36
500	36	500	33
600	35	600	31
700	33	700	29
800	31	800	28
900	30	900	27
1000	29	1000	26
1100	27	1100	25
1200	26	1200	24
1300	26	1300	23
1400	25	1400	23
1500	24	1500	21
1600	23	1600	21
1700	23	1700	21
1800	22	1800	20
1900	22	1900	20
2000	21	2000	20

Configuration limitations:	
Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (15.8 in.)
Minimum pixel spacing (pitch):	150 mm (5.9 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.

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 - CAT6E STP CABLE (PROVIDED BY OTHERS)

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