

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP WITH P3 CONTROL (PowerPort 1500)



P3 Controllers

Media Server (Provided by others)



Internal Video input

DVI Video input

DVI Video input

DVI or 3G-SDI Video input



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



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



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

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 2000 Ext. Dot-HP

- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Dot-HP

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Dot-HP

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Dot-HP

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

Exterior Dot-HP generic layout

Martin P3- PowerPort 1500™
P/N 90721040



N
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)

The maximum permitted length of a lead-in cable is **100 m**

Total length from PowerPort to last Exterior Dot-HP should be less than **115m** (include the cable tails on dots)



Exterior Dot HP
P/N 90357683 - Exterior Dot-HP RGB, Alu, Clear Front
P/N 90357685 - Exterior Dot-HP RGB, Alu, Dome Front
P/N 90357686 - Exterior Dot-HP RGB, Alu, Directional Front (TIR lens)
P/N 90357688 - Exterior Dot-HP CW, Alu, Clear Front
P/N 90357687 - Exterior Dot-HP CW, Alu, Dome Front
P/N 90357689 - Exterior Dot-HP CW, Alu, Directional Front (TIR lens)



Hybrid Power+Data Cable CMX BBD-BBD
(Not required if Exterior Dot-HP are mounted next to each other (<50cm))



Ext. Dot-HP, RGB/CW, Clear Front Ext. Dot-HP, RGB/CW, Dome Front Ext. Dot-HP, RGB/CW, Directional Front

The maximum permitted length of cable between two Exterior Dot-HP dots is **20m**

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



Hybrid Power+Data Cable CMX BBD-BBD
(Not required if Exterior Dot-HP are mounted next to each other (<50cm))

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

Maximum permitted number of dots per PowerPort 1500 output

Total cable length	Maximum permitted number of dots per PowerPort 1500 output	
	Uncalibrated mode (7 W per dot)	Calibrated mode only (5 W per dot)
Up to 45 m (147 ft.)*	44	63
45 - 70 m (147 - 230 ft.)*	41	58
70 - 115 m (230 - 377 ft.)*	33	48

* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP WITH P3 CONTROL (PowerPort 1000)



P3 Controllers



Internal Video input

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 2000 Ext. Dot-HP

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 2000 Ext. Dot-HP

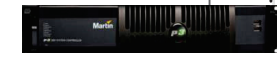
DVI Video input



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

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Dot-HP

DVI or 3G-SDI Video input



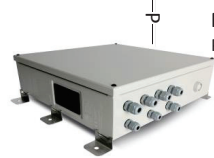
Martin P3-300 Controller™
Video signal processor
P/N 90721060

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Dot-HP

Media Server (Provided by others)

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

Exterior Dot-HP 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)

The maximum permitted length of a lead-in cable is **100 m**

Total length from PowerPort to last Exterior Dot-HP should be less than **115m** (include the cable tails on dots)



Exterior Dot HP

- P/N 90357683 - Exterior Dot-HP RGB, Alu, Clear Front
- P/N 90357685 - Exterior Dot-HP RGB, Alu, Dome Front
- P/N 90357686 - Exterior Dot-HP RGB, Alu, Directional Front (TIR lens)
- P/N 90357688 - Exterior Dot-HP CW, Alu, Clear Front
- P/N 90357687 - Exterior Dot-HP CW, Alu, Dome Front
- P/N 90357689 - Exterior Dot-HP CW, Alu, Directional Front (TIR lens)



Hybrid Power+Data Cable CMX BBD-BBD

(Not required if Exterior Dot-HP are mounted next to each other (<50cm))



Ext. Dot-HP, RGB/CW, Clear Front



Ext. Dot-HP, RGB/CW, Dome Front



Ext. Dot-HP, RGB/CW, Directional Front

The maximum permitted length of cable between two Exterior Dot-HP dots is **20m**

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



Hybrid Power+Data Cable CMX BBD-BBD

(Not required if Exterior Dot-HP are mounted next to each other (<50cm))



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

Maximum permitted number of dots per PowerPort 1000 output

Total cable length	Maximum permitted number of dots per PowerPort 1000 output	
	Uncalibrated mode (7 W per dot)	Calibrated mode only (5 W per dot)
Up to 45 m (147 ft.)*	30	45
45 - 70 m (147 - 230 ft.)*	29	42
70 - 115 m (230 - 377 ft.)*	25	37

* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP WITH DMX CONTROL



DMX Source

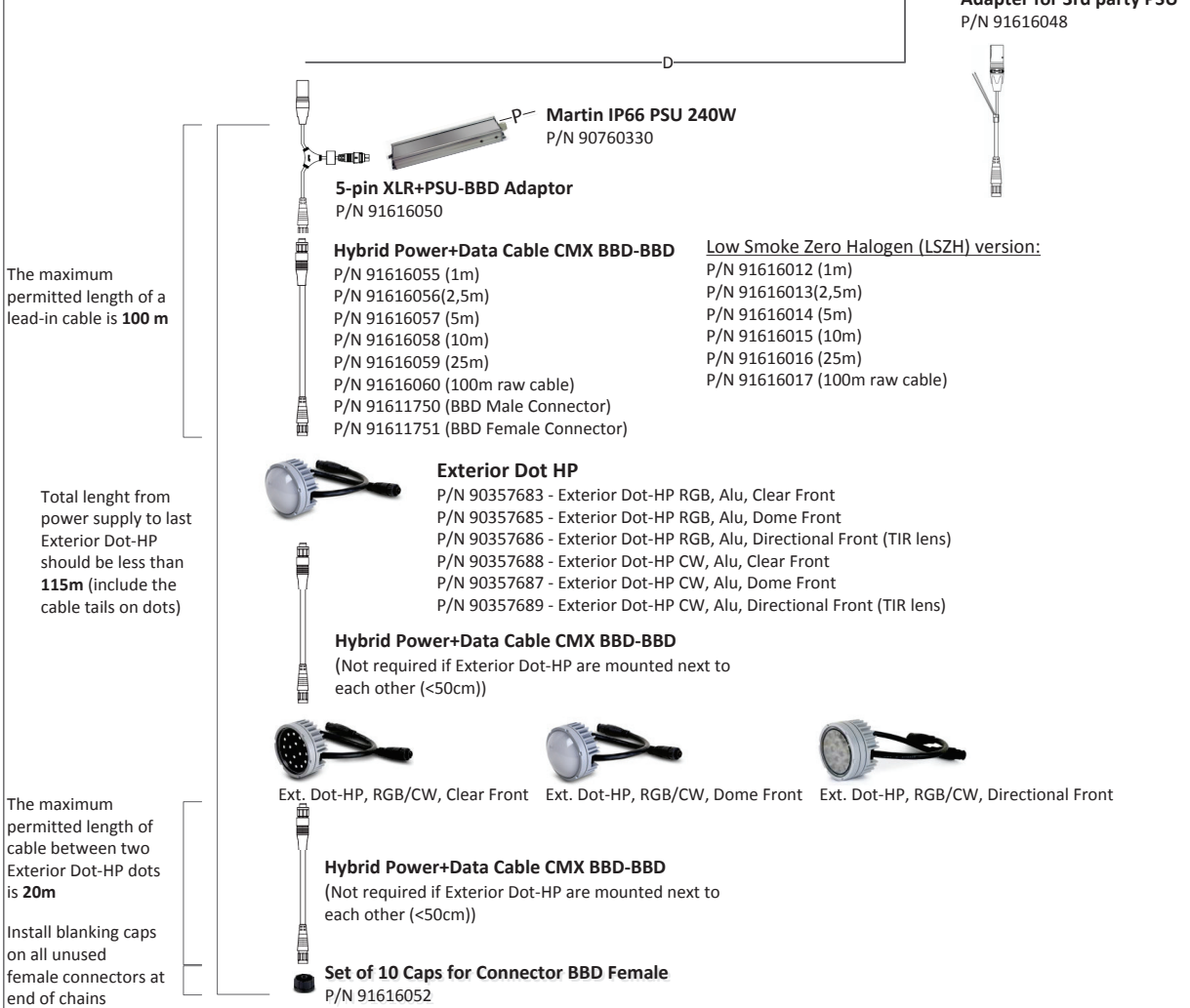


(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)

Exterior Dot-HP, RGB (RGB Mode):	170 pcs
Exterior Dot-HP, RGB (Basic Mode):	51 pcs
Exterior Dot-HP, CW (Intensity Mode):	512 pcs

Exterior Dot-HP generic layout



Maximum permitted number of dots per Martin IP66 PSU 240W

Total cable length	Maximum permitted number of dots per Martin IP66 PSU 240W	
	Uncalibrated mode (7 W per dot)	Calibrated mode only (5 W per dot)
Up to 45 m (147 ft.)*	29	42
45 - 70 m (147 - 230 ft.)*	28	40
70 - 115 m (230 - 377 ft.)*	24	36

* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.

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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DMX Source

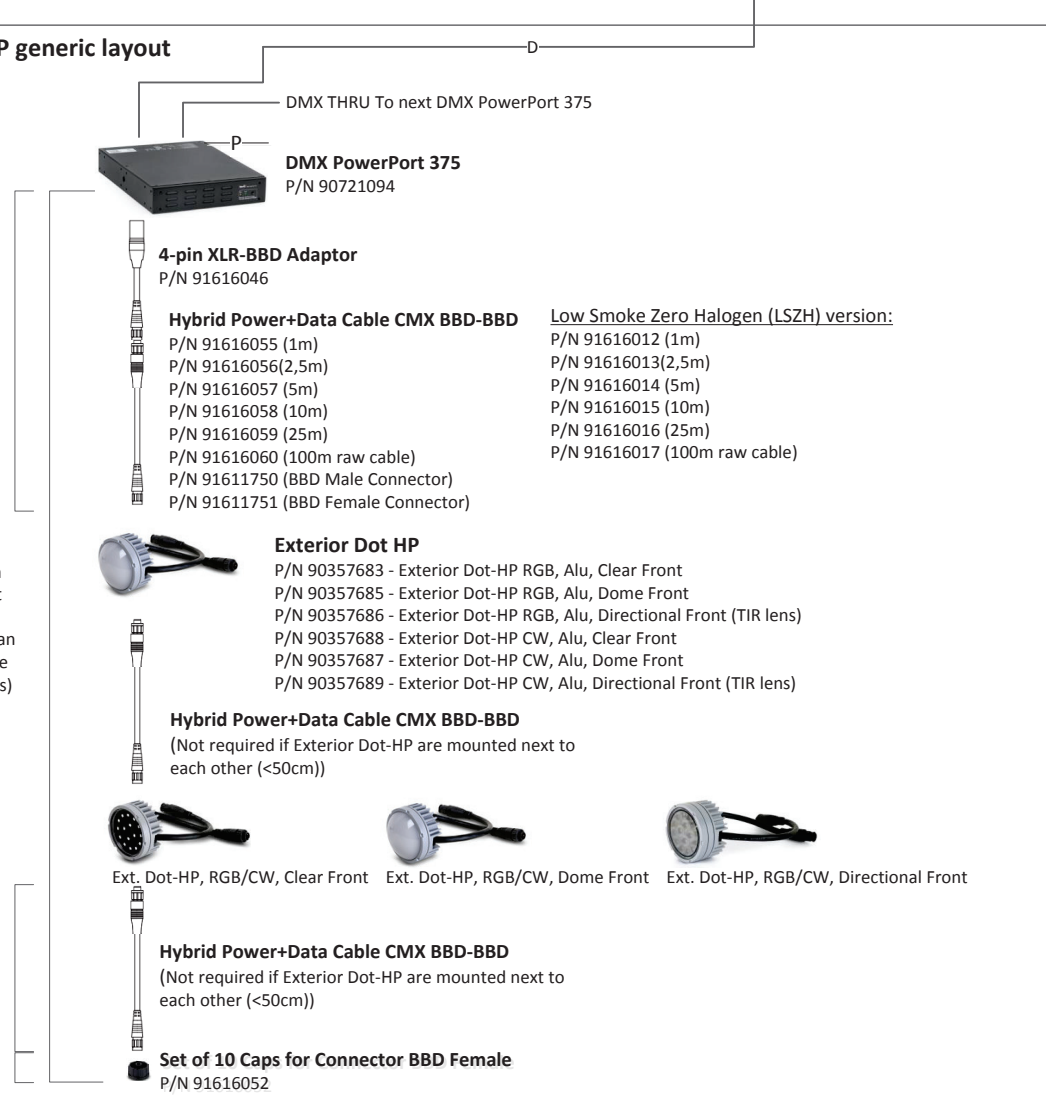
GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP WITH DMX CONTROL (DMX PowerPort 375)



(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)	
Exterior Dot-HP, RGB (RGB Mode):	170 pcs
Exterior Dot-HP, RGB (Basic Mode):	51 pcs
Exterior Dot-HP, CW (Intensity Mode):	512 pcs

Exterior Dot-HP generic layout



The maximum permitted length of a lead-in cable is **100m**

Total length from PowerPort to last Exterior Dot-HP should be less than **115m** (include the cable tails on dots)

The maximum permitted length of cable between two Exterior Dot-HP dots is **20m**

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

Total cable length	Maximum permitted number of dots per DMX PowerPort 375 240V Input	
	Uncalibrated mode (7 W per dot)	Calibrated mode only (5 W per dot)
Up to 45 m (147 ft.)*	44	63
45 - 70 m (147 - 230 ft.)*	41	58
70 - 115 m (230 - 377 ft.)*	33	48

* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.

Total cable length	Maximum permitted number of dots per DMX PowerPort 375 120V input	
	Uncalibrated mode (7 W per dot)	Calibrated mode only (5 W per dot)
Up to 45 m (147 ft.)*	29	42
45 - 70 m (147 - 230 ft.)*	28	40
70 - 115 m (230 - 377 ft.)*	24	36

* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.

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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