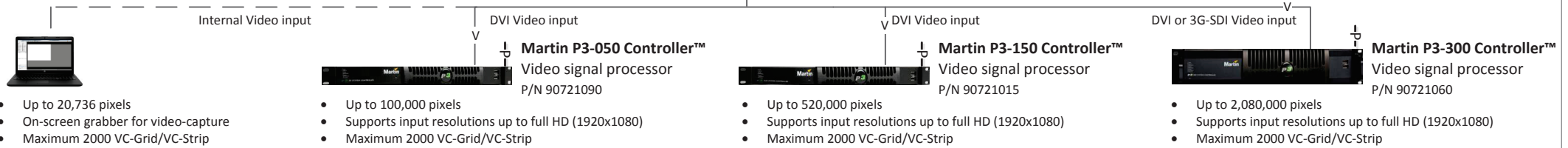


GENERIC SYSTEM DIAGRAM – EXTERIOR Dot-HP WITH P3 CONTROL (PowerPort 1500)



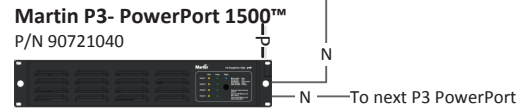
P3 Controllers

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



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 VC-Grid/VC-Strip

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 VC-Grid/VC-Strip

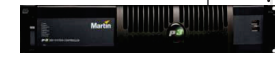
DVI Video input



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 VC-Grid/VC-Strip

DVI or 3G-SDI Video input



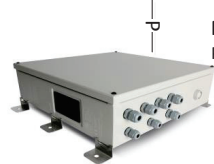
Martin P3-300 Controller™
Video signal processor
P/N 90721060

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 VC-Grid/VC-Strip

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.

DMX Source

GENERIC SYSTEM DIAGRAM – EXTERIOR Dot-HP WITH DMX CONTROL



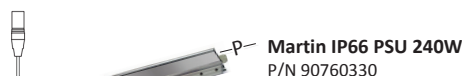
(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)

Exterior Dot-HP, RGB (RGB Mode):	170 pcs
Exterior Dot-HP, RGB (Basic Mode):	50 pcs
Exterior Dot-HP, CW (Intensity Mode):	512 pcs

Exterior Dot-HP generic layout

Adapter for 3rd party PSU
P/N 91616048



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)

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 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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