

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

P3 Controllers



P3-PC™
P/N 90721030

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



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 Dot-HP's
- 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 Dot-HP's
- 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 2000 Dot-HP's
- 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)

Exterior Dot-HP 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)

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

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

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

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



P3-PC™
P/N 90721030

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



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 Dot-HP's
- 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 Dot-HP's
- 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 2000 Dot-HP's
- 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)

Exterior Dot-HP generic layout



Martin P3- PowerPort 1000 IP65™
P/N 90721080

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

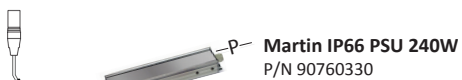


(PROVIDED BY OTHERS)

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) | Low Smoke Zero Halogen (LSZH) version: |
| P/N 91616056(2,5m) | P/N 91616012 (1m) |
| P/N 91616057 (5m) | P/N 91616013(2,5m) |
| P/N 91616058 (10m) | P/N 91616014 (5m) |
| P/N 91616059 (25m) | P/N 91616015 (10m) |
| P/N 91616060 (100m raw cable) | P/N 91616016 (25m) |
| P/N 91611750 (BBD Male Connector) | P/N 91616017 (100m raw cable) |
| P/N 91611751 (BBD Female Connector) | |

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



- 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)

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



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**

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

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

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 - DVI VIDEO (PROVIDED BY OTHERS) N - CAT6E STP CABLE (PROVIDED BY OTHERS)

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