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

### Exterior Dot-HP generic layout

- **Martin P3- PowerPort 1500™**
  - P/N 90721040
  - N → To next P3 PowerPort

#### Hybrid Power+Data Cable CMX BBD-BBD
- 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)
  - P/N 91611750 (BBD Male Connector)
  - P/N 91611751 (BBD Female Connector)

#### 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**
  - 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))

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

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### Total cable length

<table>
<thead>
<tr>
<th>Total cable length</th>
<th>Uncalibrated mode (7 W per dot)</th>
<th>Calibrated mode only (5 W per dot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 45 m (147 ft.)*</td>
<td>44</td>
<td>63</td>
</tr>
<tr>
<td>45 - 70 m (147 - 230 ft.)*</td>
<td>41</td>
<td>58</td>
</tr>
<tr>
<td>70 - 115 m (230 - 377 ft.)*</td>
<td>33</td>
<td>48</td>
</tr>
</tbody>
</table>

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

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### CABLES:
- D - DMX CABLE
- F - FIBER OPTIC CABLE
- H - HYBRID CABLE
- P - POWER CABLE
- V - VIDEO CABLE
- N - CAT6E STP CABLE

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

P3 Controllers
- Internal Video input
- DVI 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
- Maximum 2000 Ext. Dot-HP
- Maximum 1000 Ethernet Cable between any 2 devices (extendable via Gigabit Switch or conversion to fiber)

Media Server (Provided by others)
- DVI Video input
- DVI Video input
- DVI Video input
- Maximum 2000 Ext. Dot-HP

Maximum permitted number of dots per PowerPort 1000 output

<table>
<thead>
<tr>
<th>Total cable length</th>
<th>Uncalibrated mode (7 W per dot)</th>
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CABLES:
- G - 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 - CAT5E STP CABLE (PROVIDED BY OTHERS)

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DMX Source

**GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP WITH DMX CONTROL**

**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

**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)

**Adapter for 3rd party PSU**  
- Martin IP66 PSU 240W  
- P/N 91616048

**Low Smoke Zero Halogen (LSZH) version:**
- 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)

**Ext. Dot-HP, RGB/CW, Clear Front**
- P/N 90357683  
- P/N 90357685  
- P/N 90357686  
- P/N 90357688

**Ext. Dot-HP, RGB/CW, Dome Front**
- P/N 90357687  
- P/N 90357689

**Ext. Dot-HP, RGB/CW, Directional Front**
- P/N 90357688 - Exterior Dot-HP, RGB, Alu, Directional Front (TIR lens)
- P/N 90357689 - Exterior Dot-HP, CW, Alu, Directional Front

**Ext. Dot-HP, RGB/CW, Clear Front**
- P/N 90357683 - Exterior Dot-HP, RGB, Clear Front
- P/N 90357685 - Exterior Dot-HP, RGB, 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, Dome Front
- P/N 90357689 - Exterior Dot-HP, CW, Alu, Directional Front (TIR lens)

**Ext. Dot-HP, RGB/CW, Dome Front**
- P/N 90357687

**Ext. Dot-HP, RGB/CW, Directional Front**
- P/N 90357689

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

**Maximum permitted number of dots per Martin IP66 PSU 240W**

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

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

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

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

Total length from power supply to last Exterior Dot-HP should be less than 115 m (including the cable tails on dots)

The maximum permitted number of dots per Martin IP66 PSU 240W

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

**DMX Source**

(Provided by Others)

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**Exterior Dot-HP generic layout**

- DMX THRU To next DMX PowerPort 375
- DMX PowerPort 375
  - P/N 90721094
- 4-pin XLR-BBD Adaptor
  - P/N 91616046
- Hybrid Power+Data Cable CMX BBD-BBD
  - 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)
  - P/N 9161750 (BBD Male Connector)
  - P/N 9161751 (BBD Female Connector)

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**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)
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- 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

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

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**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 |

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**Maximum permitted number of dots per DMX PowerPort 375**

**240V Input**

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**Maximum permitted number of dots per DMX PowerPort 375**

**120V input**

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**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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