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

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

### Exterior Dot-HP generic layout
- Martin P3- PowerPort 1500™
  - P/N 90721040
- 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 91616060 (100m raw cable)
    - P/N 91611750 (BBD Male Connector)
    - P/N 91611751 (BBD Female Connector)
- 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

### Maximum permitted number of dots per PowerPort 1500 output

<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.

### 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 - CAT5E STP CABLE (PROVIDED BY OTHERS)

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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)

**Media Server (Provided by others)**
- DVI Video input
- DVI or 3G-SDI Video input

**Exterior Dot-HP**
- 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 (BBB Male Connector)
  - P/N 91611751 (BBB Female Connector)

**Hybrid Power+Data Cable CMX BBD-BBD**
- 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)

**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>
<th>Calibrated mode only (5 W per dot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 45 m (147 ft.)*</td>
<td>30</td>
<td>45</td>
</tr>
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<td>45 - 70 m (147 - 230 ft.)*</td>
<td>29</td>
<td>42</td>
</tr>
<tr>
<td>70 - 115 m (230 - 377 ft.)*</td>
<td>25</td>
<td>37</td>
</tr>
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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.

**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 - CAT5E STP CABLE (PROVIDED BY OTHERS)

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

**DMX Source**

![Diagram of DMX source]

**Exterior Dot-HP generic layout**

- **5-pin XLR+PSU-BBD Adaptor**
  - P/N 91616050
- **Low Smoke Zero Halogen (LSZH) version:**
  - P/N 91616015 (10m)
- **Hybrid Power+Data Cable CMX BBD-BBD**
  - P/N 91616052 (Set of 10 Caps for Connector BBD Female)
- **Ext. Dot-HP, RGB/CW, Clear Front**
- **Ext. Dot-HP, RGB/CW, Dome Front**
- **Ext. Dot-HP, RGB/CW, Directional Front**

**Adapter for 3rd party PSU**

- **P/N 91616048**

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

<table>
<thead>
<tr>
<th>Total cable length</th>
<th>Uncalibrated mode (7 W per dot)</th>
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<td>36</td>
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- **Adapted for Martin IP66 PSU 240W**
  - P/N 90760330

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

- **Total length from PowerPort to last Exterior Dot-HP should be less than 115 m (including 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.**

- **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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