

# GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-HP PRO (P3 PowerPort 2000)



## Light Controller

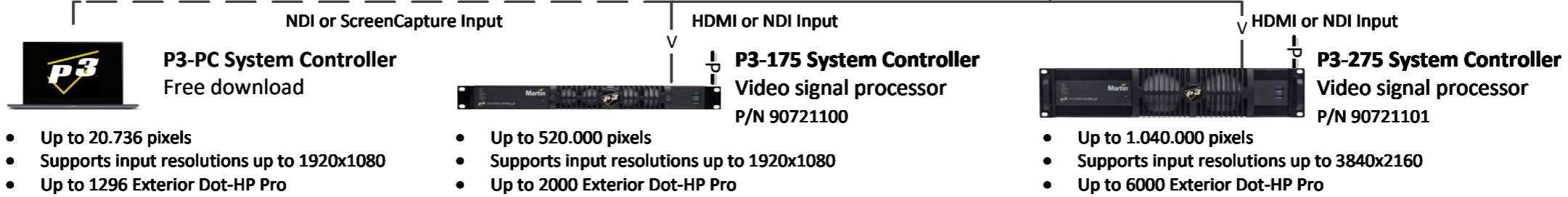


(PROVIDED BY OTHERS)

- Up to 170 Exterior Dot-HP Pro per DMX universe (DMX Mode RGB)

Art-Net / sACN

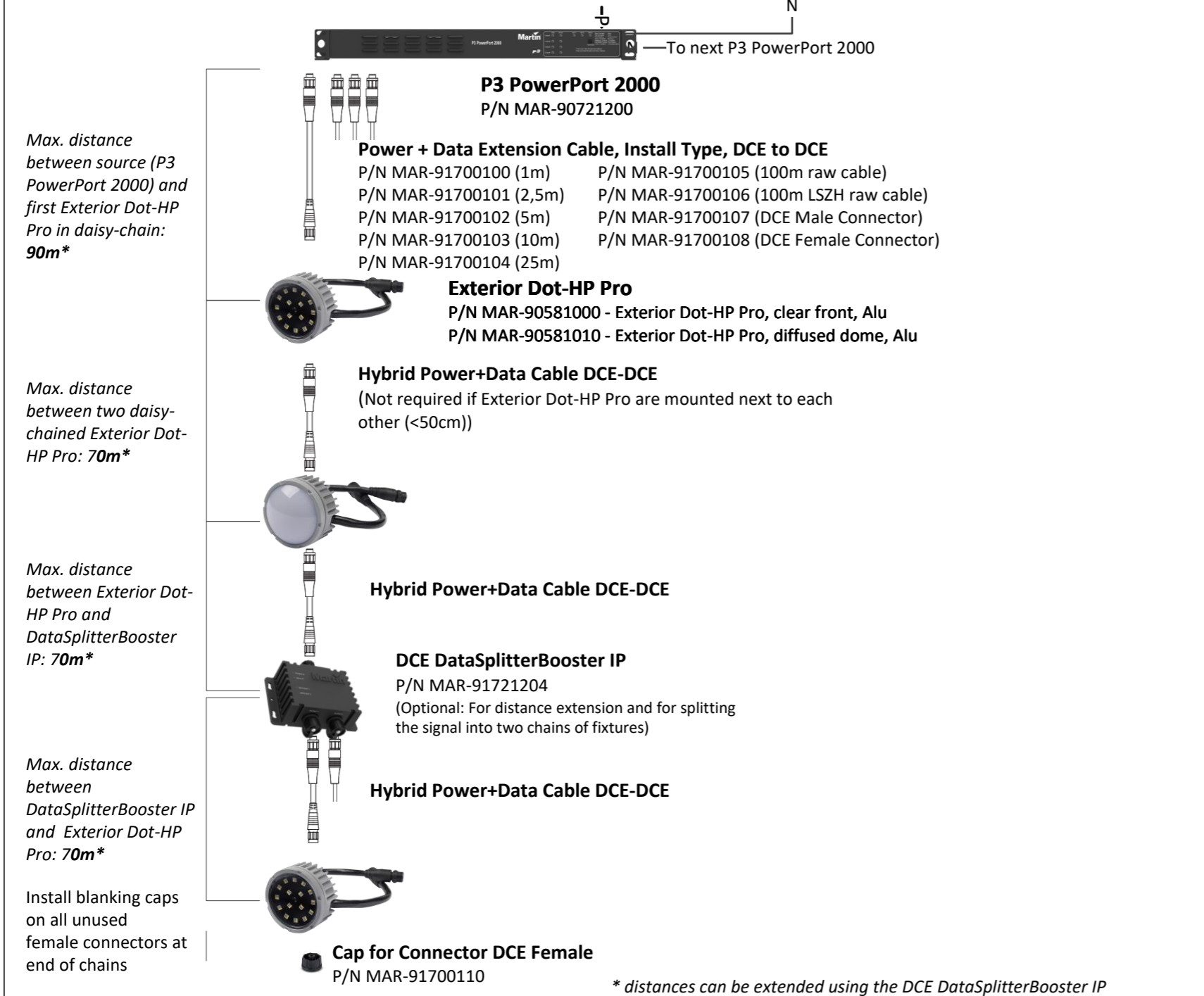
## P3 System Controllers



P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

## Exterior Dot-HP Pro generic layout



## Max. permitted number of dots per P3 PowerPort 2000 output

| Total cable length**       | Max. permitted number of dots per P3 PowerPort 2000 output |                 |
|----------------------------|--|-----------------|
|                            | Full Power mode  | Half Power mode |
| Up to 50m (164ft.)*        | 68 pcs   | 125 pcs         |
| 50 - 100m (164 - 328ft.)*  | 41 pcs   | 88 pcs          |
| 100 - 150m (328 - 492ft.)* | 27 pcs   | 56 pcs          |
| 150 - 200m (492 - 656ft.)* | 21 pcs   | 41 pcs          |

\* If the total cable length is not given in the table, respect the maximum total number of dots given for the next highest length.  
When using a DCE DataSplitterBooster IP the total cable length is the sum of input cable + both outputs of the DCE DataSplitterBooster IP.

\*\* Including cable tails on Dots (2 x 25 cm or 2 x 10 inch. per Ext Dot-HP Pro)

### Accessories:

**Dot-HP Pro Flange Bracket, 10 pcs:**  
P/N MAR-90581012

**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 PRO (P3 PowerPort 500 IP Install)



## Light Controller



(PROVIDED BY OTHERS)

- Up to 170 Exterior Dot-HP Pro per DMX universe (DMX Mode RGB)

Art-Net / sACN

## P3 System Controllers



**P3-PC System Controller**  
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 1296 Exterior Dot-HP Pro

NDI or ScreenCapture Input

HDMI or NDI Input



**P3-175 System Controller**  
Video signal processor  
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Dot-HP Pro



**P3-275 System Controller**  
Video signal processor  
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Dot-HP Pro

HDMI or NDI Input

Media Server (Provided by others)

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

## Exterior Dot-HP Pro generic layout



**P3 PowerPort 500 IP Install**  
P/N MAR-90721202

### Power + Data Extension Cable, Install Type, DCE to DCE

- P/N MAR-91700100 (1m) P/N MAR-91700105 (100m raw cable)
- P/N MAR-91700101 (2,5m) P/N MAR-91700106 (100m LSZH raw cable)
- P/N MAR-91700102 (5m) P/N MAR-91700107 (DCE Male Connector)
- P/N MAR-91700103 (10m) P/N MAR-91700108 (DCE Female Connector)
- P/N MAR-91700104 (25m)



### Exterior Dot-HP Pro

- P/N MAR-90581000 - Exterior Dot-HP Pro, clear front, Alu
- P/N MAR-90581010 - Exterior Dot-HP Pro, diffused dome, Alu



### Hybrid Power+Data Cable DCE-DCE

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



### Hybrid Power+Data Cable DCE-DCE

### DCE DataSplitterBooster IP

P/N MAR-91721204  
(Optional: For distance extension and for splitting the signal into two chains of fixtures)



### Hybrid Power+Data Cable DCE-DCE



**Cap for Connector DCE Female**  
P/N MAR-91700110

\* distances can be extended using the DCE DataSplitterBooster IP

Max. distance between source (P3 PowerPort 500 IP Install) and first Exterior Dot-HP Pro in daisy-chain: **90m\***

Max. distance between two daisy-chained Exterior Dot-HP Pro: **70m\***

Max. distance between Exterior Dot-HP Pro and DataSplitterBooster IP: **70m\***

Max. distance between DataSplitterBooster IP and Exterior Dot-HP Pro: **70m\***

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

## Max. permitted number of dots per P3 PowerPort 500IP Install

| Total cable length**       | Max. permitted number of dots per P3 PowerPort 500IP Install |                 |
|----------------------------|--|-----------------|
|                            | Full Power mode  | Half Power mode |
| Up to 50m (164ft.)*        | 68 pcs   | 125 pcs         |
| 50 - 100m (164 - 328ft.)*  | 41 pcs   | 88 pcs          |
| 100 - 150m (328 - 492ft.)* | 27 pcs   | 56 pcs          |
| 150 - 200m (492 - 656ft.)* | 21 pcs   | 41 pcs          |

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

When using a DCE DataSplitterBooster IP the total cable length is the sum of input cable + both outputs of the DCE DataSplitterBooster IP.

\*\* Including cable tails on Dots (2 x 25 cm or 2 x 10 inch. per Ext Dot-HP Pro)

### Accessories:

**Dot-HP Pro Flange Bracket, 10 pcs:**  
P/N MAR-90581012

**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 PRO (DCE PSU 240 IP)



## Light Controller



(PROVIDED BY OTHERS)

- Up to 170 Exterior Dot-HP Pro per DMX universe (DMX Mode RGB)

Art-Net / sACN

## P3 System Controllers



**P3-PC System Controller**  
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 1296 Exterior Dot-HP Pro

NDI or ScreenCapture Input

HDMI or NDI Input



**P3-175 System Controller**  
Video signal processor  
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- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Dot-HP Pro



**P3-275 System Controller**  
Video signal processor  
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Dot-HP Pro

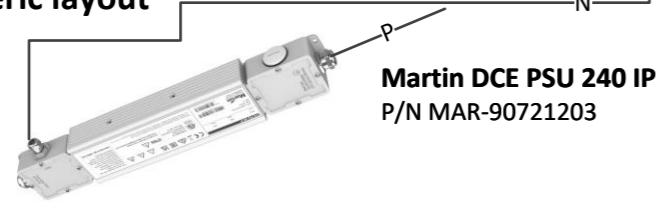
HDMI or NDI Input

Media Server (Provided by others)

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

## Exterior Dot-HP Pro generic layout



**Martin DCE PSU 240 IP**  
P/N MAR-90721203

Max. distance between source (DCE PSU 240 IP) and first Exterior Dot-HP Pro in daisy-chain: **90m\***

### Power + Data Extension Cable, Install Type, DCE to DCE

- |                         |   |
|-------------------------|---|
| P/N MAR-91700100 (1m)   | P/N MAR-91700105 (100m raw cable)       |
| P/N MAR-91700101 (2,5m) | P/N MAR-91700106 (100m LSZH raw cable)  |
| P/N MAR-91700102 (5m)   | P/N MAR-91700107 (DCE Male Connector)   |
| P/N MAR-91700103 (10m)  | P/N MAR-91700108 (DCE Female Connector) |
| P/N MAR-91700104 (25m)  |   |



### Exterior Dot-HP Pro

P/N MAR-90581000 - Exterior Dot-HP Pro, clear front, Alu  
P/N MAR-90581010 - Exterior Dot-HP Pro, diffused dome, Alu

Max. distance between two daisy-chained Exterior Dot-HP Pro: **70m\***

### Hybrid Power+Data Cable DCE-DCE

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



### Hybrid Power+Data Cable DCE-DCE

Max. distance between Exterior Dot-HP Pro and DataSplitterBooster IP: **70m\***

### DCE DataSplitterBooster IP

P/N MAR-91721204  
(Optional: For distance extension and for splitting the signal into two chains of fixtures)

Max. distance between DataSplitterBooster IP and Exterior Dot-HP Pro: **70m\***

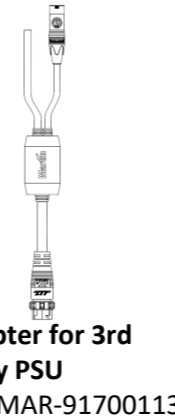
### Hybrid Power+Data Cable DCE-DCE



**Cap for Connector DCE Female**  
P/N MAR-91700110

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

\* distances can be extended using the DCE DataSplitterBooster IP



**Adapter for 3rd party PSU**  
P/N MAR-91700113

## Maximum permitted number of dots per DCE PSU 240 IP

| Total cable length**       | Maximum permitted number of dots per DCE PSU 240 IP |                 |
|----------------------------|---|-----------------|
|                            | Full Power mode                                     | Half Power mode |
| Up to 50m (164ft.)*        | 35 pcs  | 68 pcs          |
| 50 - 100m (164 - 328ft.)*  | 31 pcs  | 61 pcs          |
| 100 - 150m (328 - 492ft.)* | 26 pcs  | 52 pcs          |
| 150 - 200m (492 - 656ft.)* | 21 pcs  | 40 pcs          |

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

When using a DCE DataSplitterBooster IP the total cable length is the sum of input cable + both outputs of the DCE DataSplitterBooster IP.

\*\* Including cable tails on Dots (2 x 25 cm or 2 x 10 inch. per Ext Dot-HP Pro)

### Accessories:

**Dot-HP Pro Flange Bracket, 10 pcs:**  
P/N MAR-90581012

**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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