

# 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)

## 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

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

HDMI or NDI Input



**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

Media Server (Provided by others)

Art-Net / sACN

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 2000**  
P/N MAR-90721200

### 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 2000) and first Exterior Dot-HP Pro in daisy-chain: **70m\***

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 2000 output

Total cable length**	Max. permitted number of dots per P3 PowerPort 2000 output	
	Full Power mode	Reduced 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)

Information subject to change without notice. HARMAN Professional Denmark ApS disclaims liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. Rev G - 04-07-2025

# 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: **70m\***

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	Reduced 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)

Information subject to change without notice. HARMAN Professional Denmark ApS disclaims liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. Rev G - 04-07-2025

# 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

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

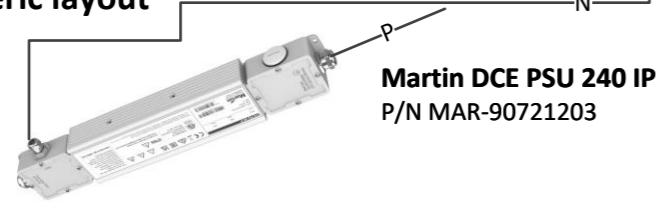
- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Dot-HP Pro

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: **70m\***

### 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\***

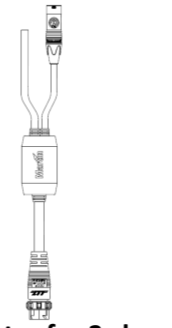
### Hybrid Power+Data Cable DCE-DCE



**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	Reduced 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)

Information subject to change without notice. HARMAN Professional Denmark ApS disclaims liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. Rev G - 04-07-2025