

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

NDI or ScreenCapture Input



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)

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	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: **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	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



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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

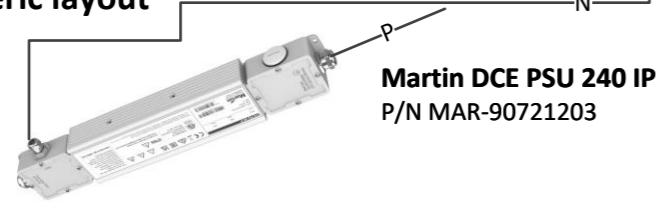
HDMI or NDI Input

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



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***

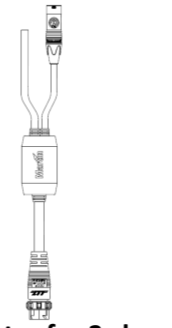
Hybrid Power+Data Cable DCE-DCE



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	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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