GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR DC-FEEDER (P3 POWERPORT 2000)

Martin

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

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 2000 Exterior Feeders

HDMI or NDI Input (V) (D)



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 Feeders

HDMI or NDI Input (V) (D)



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 Feeders

Art-Net / sACN | P3

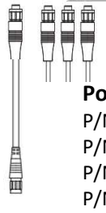
Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout

Martin P3 PowerPort 2000
P/N MAR-90721200



(D) (N) To next P3 PowerPort 2000



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)	

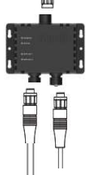


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004



Exterior Dot-1
P/N MAR-90580000

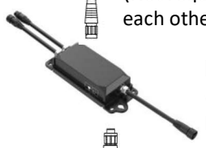
Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m



DCE DataSplitterBooster IP
P/N MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

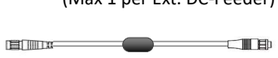
*Max. distance between source (P3 PowerPort 2000) and last Ext DC-Feeder in daisy-chain: Please consult **Limitation Page: Number of Exterior Dot Pro's vs. Cable length***
Maximum 16 DC-feeders in a daisy-chain

Hybrid Power+Data Cable DCE-DCE
(Not required if Exterior DC-Feeder are mounted next to each other (<35cm))

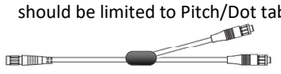


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. DC-Feeder)



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)

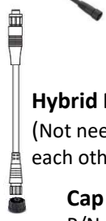


Max 1 Double String Cable Adapter per Exterior DC-Feeder



Exterior Dot-1
P/N MAR-90580000

Hybrid Power+Data Cable DCE-DCE
(Not needed if Exterior DC-Feeder are mounted next to each other (<35cm))



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

Cap for Connector DCE Female
P/N MAR-91700110

Numbers based on max. 28m from P3 PowerPort 2000 to last Ext. DC-Feeder (for other configurations see *Limitation Page: Number of Exterior Dot Pro's vs. Cable length)*

Up to 4 daisy-chains per P3 Powerport 2000 (one per output)

Maximum Exterior Dot-1 per P3 PowerPort 2000
Up to 1600 Exterior Dot-1's per P3 PowerPort 2000

Maximum Exterior Dot-1 per output
Up to 400 Exterior Dot-1's per daisy-chain

Examples:
4 strings of 100 Exterior Dot-1's or
5 strings of 80 Exterior Dot-1's or
6 strings of 66 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005(Grey Version)
P/N MAR-90580029(Black Version)



White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)



Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)



Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L:125,2m)
1700	75 (L: 127,8m)	73 (L:127,4m)	71 (L: 129,0m)
1800	72 (L:129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**
One pixel = one Dot	
** *Can be extended 5m by using Active Lead-in Cable Extender*	

Please contact your local sales person for customized Exterior Dot-1 strings. Minimum order qty. for customized strings: 800 dots.

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-1 PRO WITH EXTERIOR DC-FEEDER (P3 POWERPORT 500 IP)

Martin

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

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 2000 Exterior Feeders

HDMI or NDI Input (V / D)



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 Feeders

HDMI or NDI Input (V / D)



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 Feeders

Art-Net / sACN | P3

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

Exterior Dot-1 generic layout

Martin P3 PowerPort 500 IP
P/N MAR-90721202



P — N — To next P3 PowerPort 500 IP

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 DC-Feeder
with DCE Connector
P/N MAR-90580004



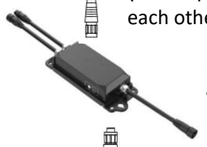
Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m



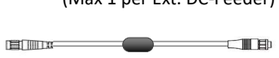
DCE DataSplitterBooster IP
P/N MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

Hybrid Power+Data Cable DCE-DCE
(Not required if Exterior DC-Feeder are mounted next to each other (<35cm))



Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

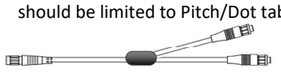
Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. DC-Feeder)



Hybrid Power+Data Cable DCE-DCE
(Not needed if Exterior DC-Feeder are mounted next to each other (<35cm))

Caps for Connector DCE Female
P/N MAR-91700110

Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior DC-Feeder



Exterior Dot-1
P/N MAR-90580000

*Max. distance between source (P3 PowerPort) and last Ext DC-Feeder in daisy-chain: Please consult **Limitation Page: Number of Exterior Dot Pro's vs. Cable length***
Maximum 16 DC-feeders in a daisy-chain

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

Numbers based on max. 28m from P3 PowerPort to last Ext. DC-Feeder (for other configurations see ***Limitation Page: Number of Exterior Dot Pro's vs. Cable length)***

1 daisy-chains per P3 Powerport 500 IP

Maximum Exterior Dot-1 per output
Up to 400 Exterior Dot-1's per daisy-chain

Examples:
4 strings of 100 Exterior Dot-1's or
5 strings of 80 Exterior Dot-1's or
6 strings of 66 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005(Grey Version)
P/N MAR-90580029(Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender: Max. Number Of Dots per String/Ext-DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
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1700	75 (L: 127,8m)	73 (L:127,4m)	71 (L: 129,0m)
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1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**
One pixel = one Dot	
** *Can be extended 5m by using Active Lead-in Cable Extender*	

Please contact your local sales person for customized Exterior Dot-1 strings. Minimum order qty. for customized strings: 800 dots.

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-1 PRO WITH EXTERIOR DC-FEEDER (MARTIN IP66 PSU)

Martin

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

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 2000 Exterior Feeders

HDMI or NDI Input (V / D)



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 Feeders

HDMI or NDI Input (V / D)



P3-275 Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

Art-Net / sACN | P3

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

Exterior Dot-1 generic layout

N



P

Martin DCE PSU 240 IP
P/N MAR-90721203



Adapter for 3rd party PSU
P/N MAR-9170011

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

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



Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

Max. distance between Martin DCE PSU and last Ext. DC-Feeder in daisy-chain: Please consult ***Limitation Page: Number of Exterior Dot Pro's vs. Cable length***
Maximum 16 DC-feeders in a daisy-chain



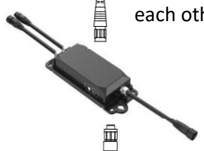
Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m



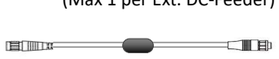
DCE DataSplitterBooster IP
MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

Hybrid Power+Data Cable DCE-DCE
(Not required if Exterior DC-Feeder are mounted next to each other (<35cm))



Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. DC-Feeder)

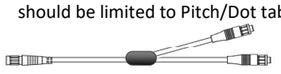


Hybrid Power+Data Cable DCE-DCE
(Not needed if Exterior DC-Feeder are mounted next to each other (<35cm))

Caps for Connector DCE Female
P/N MAR-91700110

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

Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior DC-Feeder



Exterior Dot-1
P/N MAR-90580000

Numbers based on max. 60m from Martin IP66 PSU to last Ext. DC-Feeder (for other configurations see ***Limitation Page: Number of Exterior Dot Pro's vs. Cable length)***

1 daisy-chains per Martin IP66 PSU 240W

Maximum Exterior Dot-1 per output
Up to 200 Exterior Dot-1's per daisy-chain

Examples:
2 strings of 100 Exterior Dot-1's or
3 strings of 66 Exterior Dot-1's or
4 strings of 50 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005(Grey Version)
P/N MAR-90580029(Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L:125,2m)
1700	75 (L: 127,8m)	73 (L:127,4m)	71 (L: 129,0m)
1800	72 (L:129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**
One pixel = one Dot	
** *Can be extended 5m by using Active Lead-in Cable Extender*	

Please contact your local sales person for customized Exterior Dot-1 strings. Minimum order qty. for customized strings: 800 dots.

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-1 PRO WITH EXTERIOR AC-FEEDER

Martin

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers

Media Server (Provided by others)

NDI or ScreenCapture Input

P3-PC System Controller
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders

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 Feeders

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 Feeders

Art-Net / sACN | P3

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

Exterior Dot-1 generic layout



Exterior AC-Feeder
with no Connector
P/N MAR-90580003

AC mains power at 100 - 277 V nominal, 50/60 Hz
Maximum Ext. AC-Feeders in chain:
16 fully loadedExt. AC-Feeders at 230V
8 fully loaded Ext. AC-Feeders at 110V



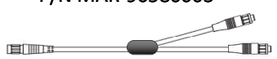
Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m

*Max. distance between source (Light Controller/P3 Controller/Network Switch) and first Ext. AC-Feeder in daisy-chain or distance between two daisy-chained Ext. AC-Feeder: **90m****



Exterior AC-Feeder
with no Connector
P/N MAR-90580003



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-4 strings, should be limited to Pitch/Dot table)
(Max 1 per Ext. AC-Feeder)



Exterior Dot-1
P/N MAR-90580000

*Max. distance between two daisy-chained Ext. AC-Feeder: **90m****

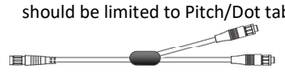


Exterior AC-Feeder
with no Connector
P/N MAR-90580003



Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. AC-Feeder)

Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Ext. AC-Feeder



Exterior Dot-1
P/N MAR-90580000

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005(Grey Version)
P/N MAR-90580029(Black Version)



White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)



Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)



Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



** distances can be extended via Gigabit Switch or conversion to fiber*

Maximum Exterior Dot-1 per Ext. AC-Feeder
Up to 100 Exterior Dot-1's

2 strings summing up to maximum 100 Exterior Dot-1's can be applied by using Double String Cable Adapter

Dot Spacing [mm]	2m Lead-in Cable Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L:125,2m)
1700	75 (L: 127,8m)	73 (L:127,4m)	71 (L: 129,0m)
1800	72 (L:129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**
One pixel = one Dot	
** *Can be extended 5m by using Active Lead-in Cable Extender*	

Please contact your local sales person for customized Exterior Dot-1 strings. Minimum order qty. for customized strings: 800 dots.

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-1 PRO WITH EXTERIOR AC-FEEDER (HYBRID CABLE)

Martin

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

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 2000 Exterior Feeders

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 Feeders

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 Feeders

Art-Net / sACN | P3

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

Exterior Dot-1 generic layout



Active Junction Box Power-DMX-Ethernet to PDE
P/N MAR-91700002

P — N

AC mains power at 100 - 277 V nominal, 50/60 Hz
Maximum Ext. AC-Feeders in chain:
16 fully loaded Ext. AC-Feeders at 230V
8 fully loaded Ext. AC-Feeders at 110V

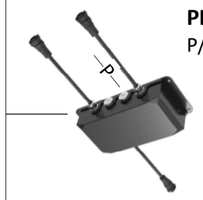
N — To next Active Junction Box

*Max. distance between source (Active Junction Box) and first Ext. AC-Feeder in daisy-chain or distance between two daisy-chained Ext. AC-Feeder: 9**0m***



Hybrid Power+Data Cable PDE-PDE

P/N 91616001 (1m)	P/N MAR-91616005 (25m)
P/N 91616002 (2,5m)	P/N MAR-91616006 (100m raw cable)
P/N 91616003 (5m)	P/N MAR-91611701 (PDE Male Connector)
P/N 91616004 (10m)	P/N MAR-91611702 (PDE Female Connector)



PDE Cable Set for AC-Feeder
P/N MAR-90580025

Exterior AC-Feeder
with no Connector
P/N MAR-90580003



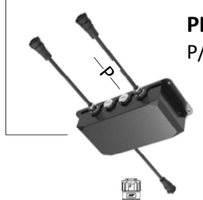
Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m



Hybrid Power+Data Cable PDE-PDE

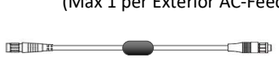
*Max. distance between two daisy-chained Ext. AC-Feeder: 9**0m***



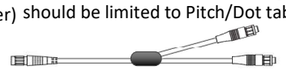
PDE Cable Set for AC-Feeder
P/N MAR-90580025

AC-Feeder
with no Connector
P/N MAR-90580003

Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Exterior AC-Feeder)



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior AC-Feeder



Exterior Dot-1
P/N MAR-90580000



Hybrid Power+Data Cable PDE-PDE

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



Caps for Connector PDE Female
P/N MAR-91700110

Maximum Exterior Dot-1 per Ext. AC-Feeder
Up to 100 Exterior Dot-1's

2 strings summing up to maximum 100 Exterior Dot-1's can be applied by using Double String Cable Adapter

Alternative to Active Junction Box:



Passive Junction Box Power-DMX-Ethernet to PDE
P/N 91610001



BreakIn Cable Power-DMX-Ethernet to PDE
P/N MAR-91700000

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005(Grey Version)
P/N MAR-90580029(Black Version)



White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)



Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)



Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L:125,2m)
1700	75 (L: 127,8m)	73 (L:127,4m)	71 (L: 129,0m)
1800	72 (L:129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** *Can be extended 5m by using Active Lead-in Cable Extender*

Please contact your local sales person for customized Exterior Dot-1 strings. Minimum order qty. for customized strings: 800 dots.

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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Limitation Page: Number of Exterior Dot Pro's vs. Cable length

Full Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for P3 PowerPort 2000 and P3 PowerPort 500 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]*	**Exterior Dot-1 Pro**	**Exterior Dot-4 Pro**	**Exterior Dot-9 Pro**
	Max. Number Of Dots per P3 PowerPort output [Pcs]	**Max. Number Of Dots per P3 PowerPort output [Pcs]**	**Max. Number Of Dots per P3 PowerPort output [Pcs]**
28	400	256	144
30	392	252	142
40	372	236	133
50	351	222	125
60	328	208	117
70	295	187	105
80	260	165	93
90	232	147	83
100	210	133	75
110	194	123	69
120	178	112	63
130	163	104	58
140	150	96	54
150	140	86	50
160	130	80	47
170	120	74	44
180	113	71	42
190	105	66	40
200	100	62	38

Half Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for P3 PowerPort 2000 and P3 PowerPort 500 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]*	**Exterior Dot-1 Pro**	**Exterior Dot-4 Pro**	**Exterior Dot-9 Pro**
	Max. Number Of Dots per P3 PowerPort output [Pcs]	**Max. Number Of Dots per P3 PowerPort output [Pcs]**	**Max. Number Of Dots per P3 PowerPort output [Pcs]**
15	800	512	288
20	780	501	285
28	762	478	272
30	740	475	270
40	694	448	255
50	662	427	243
60	616	398	228
70	550	352	203
80	490	316	180
90	436	280	160
100	400	256	144
110	360	232	130
120	320	211	119
130	300	192	108
140	280	187	101
150	270	170	95
160	240	157	88
170	230	147	82
180	220	140	79
190	210	132	75
200	200	128	72

Max. distance between source (P3 PowerPort) and first Ext DC-Feeder in daisy-chain: **90m. Use DCE DataSplitterBooster IP to be able to extend the 90m.*
Maximum 16 DC-feeders in a daisy-chain

Full Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for Martin DCE PSU 240 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]**	**Exterior Dot-1 Pro**	**Exterior Dot-4 Pro**	**Exterior Dot-9 Pro**
	Max. Number Of Dots per P3 PowerPort output [Pcs]	**Max. Number Of Dots per P3 PowerPort output [Pcs]**	**Max. Number Of Dots per P3 PowerPort output [Pcs]**
50	200	128	72
60	200	128	72
70	198	125	70
80	193	121	68
90	187	118	67
100	182	115	65
110	172	111	63
120	165	108	61
130	159	104	59
140	153	100	57
150	145	93	54
160	132	86	50
170	125	82	47
180	117	77	44
190	110	72	42
200	100	68	40

Half Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for Martin DCE PSU 240 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]**	**Exterior Dot-1 Pro**	**Exterior Dot-4 Pro**	**Exterior Dot-9 Pro**
	Max. Number Of Dots per P3 PowerPort output [Pcs]	**Max. Number Of Dots per P3 PowerPort output [Pcs]**	**Max. Number Of Dots per P3 PowerPort output [Pcs]**
40	400	256	144
45	398	256	144
50	390	253	144
60	380	240	136
70	370	234	133
80	358	228	129
90	348	221	126
100	338	215	122
110	325	209	119
120	315	203	116
130	305	197	112
140	300	192	108
150	280	175	99
160	260	163	94
170	245	154	88
180	225	145	83
190	215	137	78
200	200	128	72

***Max. distance between source (Martin DCE PSU 240 IP) and first Ext DC-Feeder in daisy-chain: **90m**. Use DCE DataSplitterBooster IP to be able to extend the 90m.*
Maximum 16 DC-feeders in a daisy-chain