GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-9 PRO WITH EXTERIOR DC-FEEDER (POWERPORT 2000)

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-9 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)



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)



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

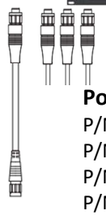
Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-9 generic layout

Martin P3 PowerPort 2000
P/N MAR-90721200



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)	

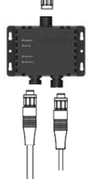


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004



Exterior Dot-9
P/N MAR-90580002

Standard Exterior Dot-9 config.:
LED color: RGBW
Pitch: 400 mm
No. of Dots: 36 pcs.
Lead-in: 2 m



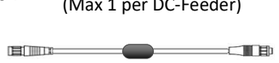
DCE DataSplitterBooster IP
P/N MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

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

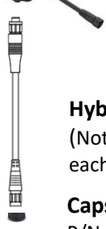


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

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

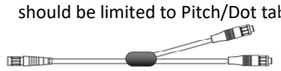


Hybrid Power+Data Cable DCE-DCE
(Not needed if DC-Feeder are mounted next to each other (<35cm))



Caps for Connector DCE Female
P/N MAR-91700110

Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-9 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per DC-Feeder



Exterior Dot-9
P/N MAR-90580002

*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 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-9 per P3 PowerPort 2000
Up to 576 Exterior Dot-9's per P3 PowerPort 2000

Maximum Exterior Dot-9 per output
Up to 144 Exterior Dot-9's per daisy-chain

Examples:
4 strings of 36 Exterior Dot-9's or
5 strings of 28 Exterior Dot-9's or
6 strings of 24 Exterior Dot-9's or ...

Accessories:



Glare Shield Ext. Dot 9, Set of 10
P/N MAR-90580007 (Grey Version)
P/N MAR-90580031 (Black Version)

White Diffuser Dome Ext. Dot-9, Set of 10
P/N MAR-90580013 (Grey Version)
P/N MAR-90580016 (Black Version)

Mounting Bracket Ext. Dot-9, Set of 10
P/N MAR-90580010 (Grey Version)
P/N MAR-90580034 (Black Version)

Mounting Profile Ext. Dot-9, 2m, Alu
P/N MAR-90580019 (Grey Version)
P/N MAR-90580028 (Set of End Caps)

Dot Spacing [mm]	2m Lead-in Cable: Max. Number Of Dots per String/DC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)	5m Lead-in Cable: Max. Number Of Dots per String/DC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)	5m Lead-in Cable + 5m Active Lead-in Cable Extender: Max. Number Of Dots per String/DC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)
175	36 (L.: 8,1m)	36 (L: 11,1m)	36 (L: 16,1m)
200	36 (L: 9,0m)	36 (L: 12,0m)	36 (L: 17,0m)
300	36 (L: 12,5m)	36 (L: 15,5m)	36 (L: 20,5m)
400 std.	36 (L: 16,0m)	36 (L: 19,0m)	36 (L: 24,0m)
500	36 (L: 19,5m)	36 (L: 22,5m)	36 (L: 27,5m)
600	36 (L: 23,0m)	36 (L: 26,0m)	36 (L: 31,0m)
700	36 (L: 26,5m)	36 (L: 29,5m)	34 (L: 33,1m)
800	36 (L: 30,0m)	34 (L: 31,4m)	31 (L: 34,0m)
900	34 (L: 31,7m)	31 (L: 32,0m)	29 (L: 35,2m)
1000	31 (L: 32,0m)	29 (L: 33,0m)	26 (L: 35,0m)
1100	28 (L: 31,7m)	27 (L: 33,6m)	25 (L: 36,4m)
1200	26 (L: 32,0m)	26 (L: 35,0m)	25 (L: 38,8m)
1300	25 (L: 33,2m)	25 (L: 36,2m)	24 (L: 39,9m)
1400	25 (L: 35,6m)	24 (L: 37,2m)	24 (L: 42,2m)
1500	24 (L: 36,5m)	24 (L: 39,5m)	23 (L: 43,0m)
1600	24 (L: 38,8m)	23 (L: 40,2m)	23 (L: 45,2m)
1700	23 (L: 39,4m)	23 (L: 42,4m)	22 (L: 45,7m)
1800	23 (L: 41,6m)	22 (L: 42,8m)	22 (L: 47,8m)
1900	22 (L: 41,9m)	22 (L: 44,9m)	21 (L: 48,0m)
2000	22 (L: 44,0m)	21 (L: 45,0m)	20 (L: 48,0m)

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (32.0 in.)
Minimum pixel spacing (pitch):	175 mm (5.9 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-9 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-9 WITH EXTERIOR DC-FEEDER (POWERPORT 500 IP)

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-9 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)



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)



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-9 generic layout

Martin P3 PowerPort 500 IP
P/N MAR-90721202

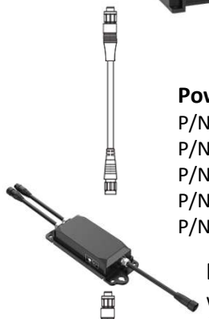


N

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)	

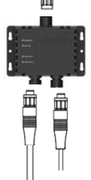


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004



Exterior Dot-9
P/N MAR-90580002

Standard Exterior Dot-9 config.:
LED color: RGBW
Pitch: 400 mm
No. of Dots: 36 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))

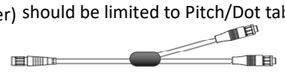


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

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



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-9 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior DC-Feeder

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



Exterior Dot-9
P/N MAR-90580002

Caps for Connector DCE Female
P/N MAR-91700110

*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 Exterior 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-9 per output
Up to 144 Exterior Dot-9's per daisy-chain

Examples:
4 strings of 36 Exterior Dot-9's or
5 strings of 28 Exterior Dot-9's or
6 strings of 24 Exterior Dot-9's or ...

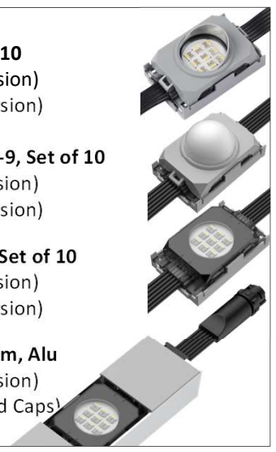
Accessories:

Glare Shield Ext. Dot 9, Set of 10
P/N MAR-90580007 (Grey Version)
P/N MAR-90580031 (Black Version)

White Diffuser Dome Ext. Dot-9, Set of 10
P/N MAR-90580013 (Grey Version)
P/N MAR-90580016 (Black Version)

Mounting Bracket Ext. Dot-9, Set of 10
P/N MAR-90580010 (Grey Version)
P/N MAR-90580034 (Black Version)

Mounting Profile Ext. Dot-9, 2m, Alu
P/N MAR-90580019 (Grey Version)
P/N MAR-90580028 (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-9 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-9 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-9 string)
175	36 (L.: 8,1m)	36 (L: 11,1m)	36 (L: 16,1m)
200	36 (L: 9,0m)	36 (L: 12,0m)	36 (L: 17,0m)
300	36 (L: 12,5m)	36 (L: 15,5m)	36 (L: 20,5m)
400 std.	36 (L: 16,0m)	36 (L: 19,0m)	36 (L: 24,0m)
500	36 (L: 19,5m)	36 (L: 22,5m)	36 (L: 27,5m)
600	36 (L: 23,0m)	36 (L: 26,0m)	36 (L: 31,0m)
700	36 (L: 26,5m)	36 (L: 29,5m)	34 (L: 33,1m)
800	36 (L: 30,0m)	34 (L: 31,4m)	31 (L: 34,0m)
900	34 (L: 31,7m)	31 (L: 32,0m)	29 (L: 35,2m)
1000	31 (L: 32,0m)	29 (L: 33,0m)	26 (L: 35,0m)
1100	28 (L: 31,7m)	27 (L: 33,6m)	25 (L: 36,4m)
1200	26 (L: 32,0m)	26 (L: 35,0m)	25 (L: 38,8m)
1300	25 (L: 33,2m)	25 (L: 36,2m)	24 (L: 39,9m)
1400	25 (L: 35,6m)	24 (L: 37,2m)	24 (L: 42,2m)
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1700	23 (L: 39,4m)	23 (L: 42,4m)	22 (L: 45,7m)
1800	23 (L: 41,6m)	22 (L: 42,8m)	22 (L: 47,8m)
1900	22 (L: 41,9m)	22 (L: 44,9m)	21 (L: 48,0m)
2000	22 (L: 44,0m)	21 (L: 45,0m)	20 (L: 48,0m)

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (32.0 in.)
Minimum pixel spacing (pitch):	175 mm (5.9 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-9 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-9 WITH EXTERIOR DC-FEEDER (MARTIN IP66 PSU)

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-9 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

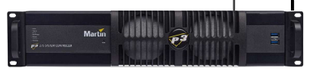
HDMI or NDI Input (V)



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)



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-9 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)



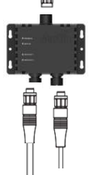
Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

*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-9
P/N MAR-90580002

Standard Exterior Dot-9 config.:
LED color: RGBW
Pitch: 400 mm
No. of Dots: 36 pcs.
Lead-in: 2 m



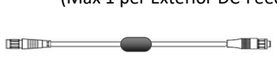
DCE DataSplitterBooster IP
P/N MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

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

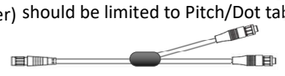


Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

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



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-9 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior DC-Feeder.

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



Exterior Dot-9
P/N MAR-90580002

Caps for Connector DCE Female
P/N MAR-91700110

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

Numbers based on max. 60m from Martin IP66 PSU to last Exterior 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-9 per output
Up to 72 Exterior Dot-9's per daisy-chain

Examples:
2 strings of 36 Exterior Dot-9's or
4 strings of 18 Exterior Dot-9's or
6 strings of 12 Exterior Dot-9's or ...

Accessories:

Glare Shield Ext. Dot 9, Set of 10
P/N MAR-90580007 (Grey Version)
P/N MAR-90580031 (Black Version)

White Diffuser Dome Ext. Dot-9, Set of 10
P/N MAR-90580013 (Grey Version)
P/N MAR-90580016 (Black Version)

Mounting Bracket Ext. Dot-9, Set of 10
P/N MAR-90580010 (Grey Version)
P/N MAR-90580034 (Black Version)

Mounting Profile Ext. Dot-9, 2m, Alu
P/N MAR-90580019 (Grey Version)
P/N MAR-90580028 (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-9 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-9 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-9 string)
175	36 (L.: 8,1m)	36 (L: 11,1m)	36 (L: 16,1m)
200	36 (L: 9,0m)	36 (L: 12,0m)	36 (L: 17,0m)
300	36 (L: 12,5m)	36 (L: 15,5m)	36 (L: 20,5m)
400 std.	36 (L: 16,0m)	36 (L: 19,0m)	36 (L: 24,0m)
500	36 (L: 19,5m)	36 (L: 22,5m)	36 (L: 27,5m)
600	36 (L: 23,0m)	36 (L: 26,0m)	36 (L: 31,0m)
700	36 (L: 26,5m)	36 (L: 29,5m)	34 (L: 33,1m)
800	36 (L: 30,0m)	34 (L: 31,4m)	31 (L: 34,0m)
900	34 (L: 31,7m)	31 (L: 32,0m)	29 (L: 35,2m)
1000	31 (L: 32,0m)	29 (L: 33,0m)	26 (L: 35,0m)
1100	28 (L: 31,7m)	27 (L: 33,6m)	25 (L: 36,4m)
1200	26 (L: 32,0m)	26 (L: 35,0m)	25 (L: 38,8m)
1300	25 (L: 33,2m)	25 (L: 36,2m)	24 (L: 39,9m)
1400	25 (L: 35,6m)	24 (L: 37,2m)	24 (L: 42,2m)
1500	24 (L: 36,5m)	24 (L: 39,5m)	23 (L: 43,0m)
1600	24 (L: 38,8m)	23 (L: 40,2m)	23 (L: 45,2m)
1700	23 (L: 39,4m)	23 (L: 42,4m)	22 (L: 45,7m)
1800	23 (L: 41,6m)	22 (L: 42,8m)	22 (L: 47,8m)
1900	22 (L: 41,9m)	22 (L: 44,9m)	21 (L: 48,0m)
2000	22 (L: 44,0m)	21 (L: 45,0m)	20 (L: 48,0m)

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (32.0 in.)
Minimum pixel spacing (pitch):	175 mm (5.9 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-9 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-9 WITH EXTERIOR AC-FEEDER

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-9 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)



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)



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-9 generic layout

N

P

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



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



Exterior Dot-9
P/N MAR-90580002

Standard Exterior Dot-9 config.:
LED color: RGBW
Pitch: 400 mm
No. of Dots: 36 pcs.
Lead-in: 2 m

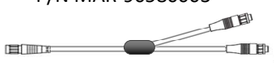
*Max. distance between source (Light Controller/P3 Controller/Network Switch) and first Exterior AC-Feeder in daisy-chain or distance between two daisy-chained Exterior AC-feeder: **70m****

N

P



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



Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-9 strings, should be limited to Pitch/Dot table)
(Max 1 per Exterior AC-Feeder)



Exterior Dot-9
P/N MAR-90580002

*Max. distance between two daisy-chained Exterior AC-Feeder: **70m****

N

P

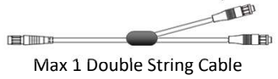


Exterior AC-Feeder
with no Connector
P/N MAR-90580003



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-9 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior AC-Feeder



Exterior Dot-9
P/N MAR-90580002

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

Accessories:

Glare Shield Ext. Dot 9, Set of 10
P/N MAR-90580007 (Grey Version)
P/N MAR-90580031 (Black Version)

White Diffuser Dome Ext. Dot-9, Set of 10
P/N MAR-90580013 (Grey Version)
P/N MAR-90580016 (Black Version)

Mounting Bracket Ext. Dot-9, Set of 10
P/N MAR-90580010 (Grey Version)
P/N MAR-90580034 (Black Version)

Mounting Profile Ext. Dot-9, 2m, Alu
P/N MAR-90580019 (Grey Version)
P/N MAR-90580028 (Set of End Caps)



Maximum Exterior Dot-9 per Exterior AC-Feeder
Up to 36 Exterior Dot-9's

2 strings summing up to maximum 36 Exterior Dot-9's can be applied by using Double String Cable Adapter

	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
Dot Spacing [mm]	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-9 string)
175	36 (L.: 8,1m)	36 (L: 11,1m)	36 (L: 16,1m)
200	36 (L: 9,0m)	36 (L: 12,0m)	36 (L: 17,0m)
300	36 (L: 12,5m)	36 (L: 15,5m)	36 (L: 20,5m)
400 std.	36 (L: 16,0m)	36 (L: 19,0m)	36 (L: 24,0m)
500	36 (L: 19,5m)	36 (L: 22,5m)	36 (L: 27,5m)
600	36 (L: 23,0m)	36 (L: 26,0m)	36 (L: 31,0m)
700	36 (L: 26,5m)	36 (L: 29,5m)	34 (L: 33,1m)
800	36 (L: 30,0m)	34 (L: 31,4m)	31 (L: 34,0m)
900	34 (L: 31,7m)	31 (L: 32,0m)	29 (L: 35,2m)
1000	31 (L: 32,0m)	29 (L: 33,0m)	26 (L: 35,0m)
1100	28 (L: 31,7m)	27 (L: 33,6m)	25 (L: 36,4m)
1200	26 (L: 32,0m)	26 (L: 35,0m)	25 (L: 38,8m)
1300	25 (L: 33,2m)	25 (L: 36,2m)	24 (L: 39,9m)
1400	25 (L: 35,6m)	24 (L: 37,2m)	24 (L: 42,2m)
1500	24 (L: 36,5m)	24 (L: 39,5m)	23 (L: 43,0m)
1600	24 (L: 38,8m)	23 (L: 40,2m)	23 (L: 45,2m)
1700	23 (L: 39,4m)	23 (L: 42,4m)	22 (L: 45,7m)
1800	23 (L: 41,6m)	22 (L: 42,8m)	22 (L: 47,8m)
1900	22 (L: 41,9m)	22 (L: 44,9m)	21 (L: 48,0m)
2000	22 (L: 44,0m)	21 (L: 45,0m)	20 (L: 48,0m)

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (31.5 in.)
Minimum pixel spacing (pitch):	175 mm (5.9 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-9 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-9 WITH EXTERIOR AC-FEEDER (HYBRID CABLE)

Media Server (Provided by others)

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-9 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-9 generic layout



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

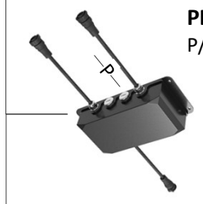
AC mains power at 100 - 277 V nominal, 50/60 Hz
Maximum Ext. AC-Feeders in chain:
16 fully loaded Ext. AC-Feeders at 230V
8 fully loaded Ext. AC-Feeders at 110V

N — To next Active Junction Box

Max. distance between source (Active Junction Box) and first Exterior AC-Feeder in daisy-chain or distance between two daisy-chained Exterior AC-Feeder: ***70m***



Hybrid Power+Data Cable PDE-PDE
P/N 91616001 (1m)
P/N 91616002 (2,5m)
P/N 91616003 (5m)
P/N 91616004 (10m)
P/N MAR-91616005 (25m)
P/N MAR-91616006 (100m raw cable)
P/N MAR-91611701 (PDE Male Connector)
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-9
P/N MAR-90580002

Standard Exterior Dot-9 config.:
LED color: RGBW
Pitch: 400 mm
No. of Dots: 36 pcs.
Lead-in: 2 m



Hybrid Power+Data Cable PDE-PDE

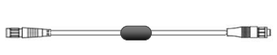
Max. distance between two daisy-chained Exterior AC-Feeder: ***70m***



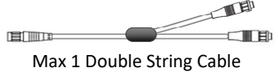
PDE Cable Set for AC-Feeder
P/N MAR-90580025

Exterior 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-9 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior AC-Feeder



Hybrid Power+Data Cable PDE-PDE

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

Caps for Connector DCE Female
P/N MAR-91700110



Exterior Dot-9
P/N MAR-90580002

Maximum Exterior Dot-9 per Exterior AC-Feeder
Up to 36 Exterior Dot-9's

2 strings summing up to maximum 36 Exterior Dot-9'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 9, Set of 10
P/N MAR-90580007 (Grey Version)
P/N MAR-90580031 (Black Version)

White Diffuser Dome Ext. Dot-9, Set of 10
P/N MAR-90580013 (Grey Version)
P/N MAR-90580016 (Black Version)

Mounting Bracket Ext. Dot-9, Set of 10
P/N MAR-90580010 (Grey Version)
P/N MAR-90580034 (Black Version)

Mounting Profile Ext. Dot-9, 2m, Alu
P/N MAR-90580019 (Grey Version)
P/N MAR-90580028 (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-9 string)	5m Lead-in Cable: Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-9 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-9 string)
175	36 (L.: 8,1m)	36 (L: 11,1m)	36 (L: 16,1m)
200	36 (L: 9,0m)	36 (L: 12,0m)	36 (L: 17,0m)
300	36 (L: 12,5m)	36 (L: 15,5m)	36 (L: 20,5m)
400 std.	36 (L: 16,0m)	36 (L: 19,0m)	36 (L: 24,0m)
500	36 (L: 19,5m)	36 (L: 22,5m)	36 (L: 27,5m)
600	36 (L: 23,0m)	36 (L: 26,0m)	36 (L: 31,0m)
700	36 (L: 26,5m)	36 (L: 29,5m)	34 (L: 33,1m)
800	36 (L: 30,0m)	34 (L: 31,4m)	31 (L: 34,0m)
900	34 (L: 31,7m)	31 (L: 32,0m)	29 (L: 35,2m)
1000	31 (L: 32,0m)	29 (L: 33,0m)	26 (L: 35,0m)
1100	28 (L: 31,7m)	27 (L: 33,6m)	25 (L: 36,4m)
1200	26 (L: 32,0m)	26 (L: 35,0m)	25 (L: 38,8m)
1300	25 (L: 33,2m)	25 (L: 36,2m)	24 (L: 39,9m)
1400	25 (L: 35,6m)	24 (L: 37,2m)	24 (L: 42,2m)
1500	24 (L: 36,5m)	24 (L: 39,5m)	23 (L: 43,0m)
1600	24 (L: 38,8m)	23 (L: 40,2m)	23 (L: 45,2m)
1700	23 (L: 39,4m)	23 (L: 42,4m)	22 (L: 45,7m)
1800	23 (L: 41,6m)	22 (L: 42,8m)	22 (L: 47,8m)
1900	22 (L: 41,9m)	22 (L: 44,9m)	21 (L: 48,0m)
2000	22 (L: 44,0m)	21 (L: 45,0m)	20 (L: 48,0m)

Configuration limitations:

Maximum number of pixels per string:	36 Pcs.
Standard pixel spacing (pitch):	400 mm (31.5 in.)
Minimum pixel spacing (pitch):	175 mm (2.4 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-9 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	347	220	124
60	318	203	117
70	275	177	98
80	243	157	85
90	217	137	76
100	193	124	69
110	179	114	63
120	162	104	57
130	150	97	54
140	138	90	50
150	128	83	47
160	119	78	43
170	112	73	40
180	106	68	38
190	100	64	36
200	94	61	34

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	658	423	243
60	610	398	228
70	525	334	197
80	454	302	170
90	400	266	151
100	355	240	136
110	322	218	126
120	290	197	114
130	263	181	106
140	240	166	98
150	220	153	90
160	202	140	84
170	184	130	78
180	172	122	74
190	160	113	69
200	144	105	65

Max. distance between source (P3 PowerPort) and first Ext DC-Feeder in daisy-chain: 70m**. Use DCE DataSplitterBooster IP to be able to extend the 70m.*
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	196	125	70
80	190	121	68
90	184	118	66
100	178	115	64
110	172	111	62
120	165	108	60
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	295	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: 7**0m**. Use DCE DataSplitterBooster IP to be able to extend the 70m.*
Maximum 16 DC-feeders in a daisy-chain