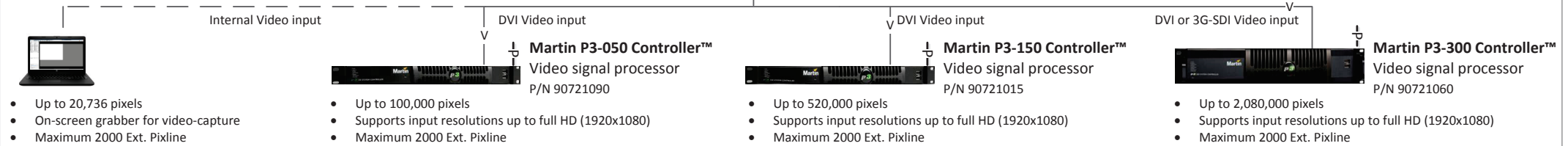


# GENERIC SYSTEM DIAGRAM – EXTERIOR PIXLINE WITH P3 CONTROL (PowerPort 1500)



## P3 Controllers

Media Server (Provided by others)



- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 2000 Ext. Pixline

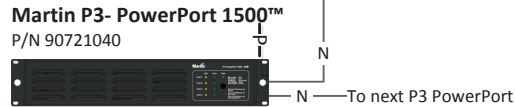
- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline

Maximum 100m Ethernet Cable between any 2 devices (extendable via Gigabit Switch or conversion to fiber)

## Ext. PixLine generic layout



**4-pin XLR-BBD Adaptor**  
P/N 91616046

**Hybrid Power+Data Cable CMX BBD-BBD**  
P/N 91616055 (1m)  
P/N 91616056 (2,5m)  
P/N 91616057 (5m)  
P/N 91616058 (10m)  
P/N 91616059 (25m)  
P/N 91616060 (100m raw cable)  
P/N 91611750 (BBD Male Connector)  
P/N 91611751 (BBD Female Connector)

**Low Smoke Zero Halogen (LSZH) version:**  
P/N 91616012 (1m)  
P/N 91616013 (2,5m)  
P/N 91616014 (5m)  
P/N 91616015 (10m)  
P/N 91616016 (25m)  
P/N 91616017 (100m raw cable)

### Exterior PixLine

Maximum length (including fixtures and cable) of a linked chain of Exterior PixLine fixtures is **50m**

Ext. Pixline 10	Ext. Pixline 20	Ext. Pixline 40	Length	Diffuser
P/N 90356895	P/N 90356835	P/N 90356775	310/320mm*	Clear Front
P/N 90356890	P/N 90356830	P/N 90356770	1270/1280mm*	Clear Front
P/N 90356885	P/N 90356825	P/N 90356765	310/320mm*	Diffuser Front
P/N 90356880	P/N 90356820	P/N 90356760	1270/1280mm*	Diffuser Front
P/N 90356875	P/N 90356815	P/N 90356755	310/320mm*	Round Diffuser
P/N 90356870	P/N 90356810	P/N 90356750	1270/1280mm*	Round Diffuser
P/N 90356865	P/N 90356805	P/N 90356745	310/320mm*	Square Diffuser
P/N 90356860	P/N 90356800	P/N 90356740	1270/1280mm*	Square Diffuser
P/N 90356855	P/N 90356795	P/N 90356735	310/320mm*	Graze, Left
P/N 90356850	P/N 90356790	P/N 90356730	1270/1280mm*	Graze, Left
P/N 90356845	P/N 90356785	P/N 90356725	310/320mm*	Graze, Right
P/N 90356840	P/N 90356780	P/N 90356720	1270/1280mm*	Graze, Right

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not required if Exterior Pixline are mounted next to each other (<50cm))

\* Exterior PixLine 10 come in the length 320mm and 1280mm



### Exterior PixLine

- Ext. PixLine, Round Diffuser
- Ext. PixLine, Square Diffuser
- Ext. PixLine, Diffuser Front
- Ext. PixLine, Clear Front

**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

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

## Maximum permitted length Ext. PixLine per PowerPort 1500 output

Fixture type	Maximum total length of fixtures in chain	Maximum total length of chain (fixtures and cables)
Exterior PixLine 10	10m*	50m
Exterior PixLine 20	20m*	50m
Exterior PixLine 40	40m*	50m

\* Each output of a P3 PowerPort 1500 can drive a maximum of 63 fixtures regardless of the length of the fixtures.

# GENERIC SYSTEM DIAGRAM – EXTERIOR PIXLINE WITH P3 CONTROL (PowerPort 1000)



## P3 Controllers



Internal Video input

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 2000 Ext. Pixline



**Martin P3-050 Controller™**  
Video signal processor  
P/N 90721090

- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline



**Martin P3-150 Controller™**  
Video signal processor  
P/N 90721015

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline



**Martin P3-300 Controller™**  
Video signal processor  
P/N 90721060

- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 Ext. Pixline

Media Server (Provided by others)

Maximum 100m Ethernet Cable between any 2 devices (extendable via Gigabit Switch or conversion to fiber)

## Ext. PixLine generic layout



**Martin P3- PowerPort 1000 IP65™**  
P/N 90721080  
N — To next P3 PowerPort 1000 IP65

### Hybrid Power+Data Cable CMX BBD-BBD

- P/N 91616055 (1m)
- P/N 91616056 (2,5m)
- P/N 91616057 (5m)
- P/N 91616058 (10m)
- P/N 91616059 (25m)
- P/N 91616060 (100m raw cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)

### Low Smoke Zero Halogen (LSZH) version:

- P/N 91616012 (1m)
- P/N 91616013 (2,5m)
- P/N 91616014 (5m)
- P/N 91616015 (10m)
- P/N 91616016 (25m)
- P/N 91616017 (100m raw cable)

### Exterior PixLine

Maximum length (including fixtures and cable) of a linked chain of Exterior PixLine fixtures is **50m**

Ext. Pixline 10	Ext. Pixline 20	Ext. Pixline 40	Length	Diffuser
P/N 90356895	P/N 90356835	P/N 90356775	310/320mm*	Clear Front
P/N 90356890	P/N 90356830	P/N 90356770	1270/1280mm*	Clear Front
P/N 90356885	P/N 90356825	P/N 90356765	310/320mm*	Diffuser Front
P/N 90356880	P/N 90356820	P/N 90356760	1270/1280mm*	Diffuser Front
P/N 90356875	P/N 90356815	P/N 90356755	310/320mm*	Round Diffuser
P/N 90356870	P/N 90356810	P/N 90356750	1270/1280mm*	Round Diffuser
P/N 90356865	P/N 90356805	P/N 90356745	310/320mm*	Square Diffuser
P/N 90356860	P/N 90356800	P/N 90356740	1270/1280mm*	Square Diffuser
P/N 90356855	P/N 90356795	P/N 90356735	310/320mm*	Graze, Left
P/N 90356850	P/N 90356790	P/N 90356730	1270/1280mm*	Graze, Left
P/N 90356845	P/N 90356785	P/N 90356725	310/320mm*	Graze, Right
P/N 90356840	P/N 90356780	P/N 90356720	1270/1280mm*	Graze, Right

### Hybrid Power+Data Cable CMX BBD-BBD

(Not required if Exterior Pixline are mounted next to each other (<50cm))



### Exterior PixLine

- Ext. PixLine, Round Diffuser
- Ext. PixLine, Square Diffuser
- Ext. PixLine, Diffuser Front
- Ext. PixLine, Clear Front



**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

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

## Maximum permitted length Ext. PixLine per PowerPort 1000 output

Fixture type	Maximum total length of fixtures in chain	Maximum total length of chain (fixtures and cables)
Exterior PixLine 10	7m*	50m
Exterior PixLine 20	14m*	50m
Exterior PixLine 40	27m*	50m

\* Each output of a P3 PowerPort 1000 can drive a maximum of 63 fixtures regardless of the length of the fixtures.

DMX Source



(PROVIDED BY OTHERS)

# GENERIC SYSTEM DIAGRAM – EXTERIOR PIXLINE WITH DMX CONTROL



DMX limitations with Pixel-level control (1 universe)	
Exterior PixLine 10 (RGB Mode):	1,7m
Exterior PixLine 20 (RGB Mode):	3,4m
Exterior Pixline 40 (RGB Mode):	6,8m
DMX limitations with segment-level control (1 universe)	
Exterior PixLine 10, 20, 40 (Segment Mode*):	20,5m

\* In segment mode each fixture is divided into segments of 160mm

## Ext. PixLine generic layout

Adapter for 3rd party PSU  
P/N 91616048



- Hybrid Power+Data Cable CMX BBD-BBD**
- |                                     |   |
|-------------------------------------|---|
| P/N 91616055 (1m)                   | <b>Low Smoke Zero Halogen (LSZH) version:</b> |
| P/N 91616056(2,5m)                  | P/N 91616012 (1m)                             |
| P/N 91616057 (5m)                   | P/N 91616013(2,5m)                            |
| P/N 91616058 (10m)                  | P/N 91616014 (5m)                             |
| P/N 91616059 (25m)                  | P/N 91616015 (10m)                            |
| P/N 91616060 (100m raw cable)       | P/N 91616016 (25m)                            |
| P/N 91611750 (BBD Male Connector)   | P/N 91616017 (100m raw cable)                 |
| P/N 91611751 (BBD Female Connector) |   |

### Exterior PixLine

Maximum length (including fixtures and cable) of a linked chain of Exterior PixLine fixtures is **50 m**

Ext. Pixline 10	Ext. Pixline 20	Ext. Pixline 40	Length	Diffuser
P/N 90356895	P/N 90356835	P/N 90356775	310/320mm*	Clear Front
P/N 90356890	P/N 90356830	P/N 90356770	1270/1280mm*	Clear Front
P/N 90356885	P/N 90356825	P/N 90356765	310/320mm*	Diffuser Front
P/N 90356880	P/N 90356820	P/N 90356760	1270/1280mm*	Diffuser Front
P/N 90356875	P/N 90356815	P/N 90356755	310/320mm*	Round Diffuser
P/N 90356870	P/N 90356810	P/N 90356750	1270/1280mm*	Round Diffuser
P/N 90356865	P/N 90356805	P/N 90356745	310/320mm*	Square Diffuser
P/N 90356860	P/N 90356800	P/N 90356740	1270/1280mm*	Square Diffuser
P/N 90356855	P/N 90356795	P/N 90356735	310/320mm*	Graze, Left
P/N 90356850	P/N 90356790	P/N 90356730	1270/1280mm*	Graze, Left
P/N 90356845	P/N 90356785	P/N 90356725	310/320mm*	Graze, Right
P/N 90356840	P/N 90356780	P/N 90356720	1270/1280mm*	Graze, Right

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not required if Exterior Pixline are mounted next to each other (<50cm))

\* Exterior PixLine 10 come in the length 320mm and 1280mm



### Exterior PixLine

- Ext. PixLine, Round Diffuser
- Ext. PixLine, Square Diffuser
- Ext. PixLine, Diffuser Front
- Ext. PixLine, Clear Front

**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

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

## Maximum permitted length Ext. PixLine per Martin IP66 PSU 240W

Fixture type	Maximum total length of fixtures in chain	Maximum total length of chain (fixtures and cables)
Exterior PixLine 10	7m	50m
Exterior PixLine 20	14m	50m
Exterior PixLine 40	27m	50m

DMX Source

# GENERIC SYSTEM DIAGRAM – EXTERIOR PIXLINE WITH DMX CONTROL (DMX PowerPort 375) **Martin**<sup>®</sup> by HARMAN

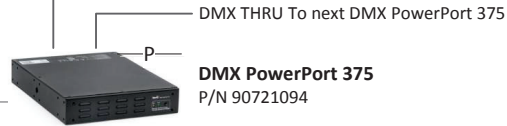


(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)	
Exterior PixLine 10 (RGB Mode):	1,7m
Exterior PixLine 20 (RGB Mode):	3,4m
Exterior Pixline 40 (RGB Mode):	6,8m
DMX limitations with segment-level control (1 universe)	
Exterior PixLine 10, 20, 40 (Segment Mode*):	20,5m

\* In segment mode each fixture is divided into segments of 160mm

## Ext. PixLine generic layout



**4-pin XLR-BBD Adaptor**  
P/N 91616046

**Hybrid Power+Data Cable CMX BBD-BBD** Low Smoke Zero Halogen (LSZH) version:  
 P/N 91616055 (1m) P/N 91616012 (1m)  
 P/N 91616056(2,5m) P/N 91616013(2,5m)  
 P/N 91616057 (5m) P/N 91616014 (5m)  
 P/N 91616058 (10m) P/N 91616015 (10m)  
 P/N 91616059 (25m) P/N 91616016 (25m)  
 P/N 91616060 (100m raw cable) P/N 91616017 (100m raw cable)  
 P/N 91611750 (BBD Male Connector)  
 P/N 91611751 (BBD Female Connector)

### Exterior PixLine

Maximum length (including fixtures and cable) of a linked chain of Exterior PixLine fixtures is **50 m**

Ext. Pixline 10	Ext. Pixline 20	Ext. Pixline 40	Length	Diffuser
P/N 90356895	P/N 90356835	P/N 90356775	310/320mm*	Clear Front
P/N 90356890	P/N 90356830	P/N 90356770	1270/1280mm*	Clear Front
P/N 90356885	P/N 90356825	P/N 90356765	310/320mm*	Diffuser Front
P/N 90356880	P/N 90356820	P/N 90356760	1270/1280mm*	Diffuser Front
P/N 90356875	P/N 90356815	P/N 90356755	310/320mm*	Round Diffuser
P/N 90356870	P/N 90356810	P/N 90356750	1270/1280mm*	Round Diffuser
P/N 90356865	P/N 90356805	P/N 90356745	310/320mm*	Square Diffuser
P/N 90356860	P/N 90356800	P/N 90356740	1270/1280mm*	Square Diffuser
P/N 90356855	P/N 90356795	P/N 90356735	310/320mm*	Graze, Left
P/N 90356850	P/N 90356790	P/N 90356730	1270/1280mm*	Graze, Left
P/N 90356845	P/N 90356785	P/N 90356725	310/320mm*	Graze, Right
P/N 90356840	P/N 90356780	P/N 90356720	1270/1280mm*	Graze, Right

\* Exterior PixLine 10 come in the length 320mm and 1280mm

**Hybrid Power+Data Cable CMX BBD-BBD**  
(Not required if Exterior Pixline are mounted next to each other (<50cm))



### Exterior PixLine

Ext. PixLine, Round Diffuser  
 Ext. PixLine, Square Diffuser  
 Ext. PixLine, Diffuser Front  
 Ext. PixLine, Clear Front

**Set of 10 Caps for Connector BBD Female**  
P/N 91616052

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

## Maximum permitted length Ext. PixLine per DMX PowerPort 375 240V input

Fixture type	Maximum total length of fixtures in chain	Maximum total length of chain (fixtures and cables)
Exterior PixLine 10	10m	50m
Exterior PixLine 20	20m	50m
Exterior PixLine 40	40m	50m

## Maximum permitted length Ext. PixLine per DMX PowerPort 375 120V input

Fixture type	Maximum total length of fixtures in chain	Maximum total length of chain (fixtures and cables)
Exterior PixLine 10	7m	50m
Exterior PixLine 20	14m	50m
Exterior PixLine 40	27m	50m

**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 - CAT6E STP CABLE (PROVIDED BY OTHERS)

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