

GENERIC SYSTEM DIAGRAM – VDO SCEPTRON XB (P3 PowerPort 2000)



Lighting Console



(PROVIDED BY OTHERS)

- Please find the different DMX modes and channel counts in the User Manual.

P3 System Controllers



P3-PC System Controller
Free download

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 20.736 pixels output
- Up to 207/648 VDO Sceptron XB



P3-175 System Controller
P/N MAR-90721100

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 520.000 pixels output
- Up to 2000 VDO Sceptron XB



P3-275 System Controller
P/N MAR-90721101

- Supports input resolutions up to 3840x2160
- Up to 1024 Art-Net/sACN universes input
- Up to 1.040.000 pixels output
- Up to 6000 VDO Sceptron XB

Media Server (Provided by others)

Art-Net or sACN from Lighting Console directly to P3 PowerPort

P3 from P3 System Controller directly to P3 PowerPort

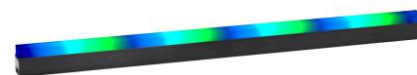
VDO Sceptron XB generic layout



P3 PowerPort 2000
P/N MAR-90721200

Power+Data Extension Cable, Rental, DCE-DCE

P/N MAR-91700100 (1m)	P/N MAR-91700111 (DCE Male-Male)
P/N MAR-91700101 (2,5m)	P/N MAR-91700112 (DCE Female-Female)
P/N MAR-91700102 (5m)	P/N MAR-91700114 (DCE to Ethernet)
P/N MAR-91700103 (10m)	P/N MAR-91700106 (100m LSZH bulk cable)
P/N MAR-91700104 (25m)	P/N MAR-91700107 (DCE Male Connector)
P/N MAR-91700105 (100m bulk cable)	P/N MAR-91700108 (DCE Female Connector)



VDO Sceptron XB

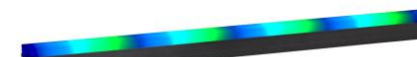
P/N MAR-90357901 – VDO Sceptron XB 320mm
P/N MAR-90357902 – VDO Sceptron XB 1000mm

Hybrid Power+Data Cable DCE-DCE



DCE DataSplitterBooster IP

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



VDO Sceptron XB

Hybrid Power+Data Cable DCE-DCE

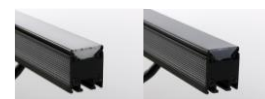


VDO Sceptron XB

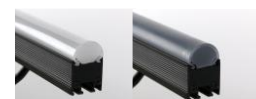
Closing Cap Female
P/N MAR-91700110

Optical

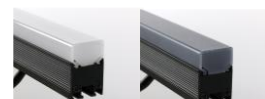
	320mm	1000mm
Flat Diffuser	P/N 91610111	P/N 91610112
Flat Smoked Diffuser	P/N 91610113	P/N 91610114
Round Diffuser	P/N 91610115	P/N 91610116
Round Smoked Diffuser	P/N 91610117	P/N 91610118
Square Diffuser	P/N 91610119	P/N 91610120
Square Smoked Diffuser	P/N 91610121	P/N 91610122
Tube Diffuser	P/N 91611630	P/N 91611640
Tube Smoked Diffuser	P/N 91611650	P/N 91611660
Graze Lens	P/N MAR-91616131	P/N MAR-91616132
Blade Lens	P/N MAR-91616133	P/N MAR-91616134
Glare Shield	P/N MAR-91616137	P/N MAR-91616138



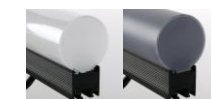
Flat Diffuser/Smoked Diffuser



Round Diffuser/Smoked Diffuser



Square Diffuser/Smoked Diffuser



Tube Diffuser/Smoked Diffuser



Graze Lens / Blade Lens



Glare shield

Max. distance between source (P3 PowerPort 2000) and first VDO Sceptron XB in daisy-chain: **75m***

Install blanking caps on all unused female connectors at end of chains (if outdoor)

* distances can be extended (extra 75m) using the DCE DataSplitterBooster IP

CABLES:

P - POWER CABLE V - VIDEO CABLE (PROVIDED BY OTHERS) N - CAT6E STP CABLE (PROVIDED BY OTHERS)

Maximum total length of chain (fixtures + cables)	Maximum total length of fixtures in chain Full Power mode	Maximum total length of fixtures in chain Half Power mode
Up to 25m (82ft.)**	12m of fixtures	21m of fixtures
25 - 50m (82 - 164ft.)**	11m of fixtures	18m of fixtures
50 - 75m (164 - 246ft.)**	9m of fixtures	15m of fixtures
75 - 100m (246 - 328ft.)**	7m of fixtures	11m of fixtures
100 - 125m (328 - 410ft.)**	5m of fixtures	9m of fixtures
125 - 150m (410 - 492ft.)**	4m of fixtures	7m of fixtures
150 - 175m (492 - 574ft.)**	3m of fixtures	6m of fixtures
175 - 200m (574 - 656ft.)**	3m of fixtures	5m of fixtures

** If the total cable length is not given in the table, respect the maximum total number of meters given for the next highest length.

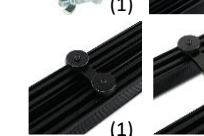
Accessories:



VDO Sceptron/Fatron Sliding Brackets, set of 10: P/N 91610123



Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018 (1)
Low Profile VDO Sceptron™/Fatron™ Half Coupler: P/N 91611790 (2)



VDO Sceptron Parallel Couplers, 30/40/50 mm, set of 10: P/N 91610125 (1)
VDO Sceptron Parallel Couplers, 60/70/80 mm, set of 10: P/N 91610138 (2)



VDO Sceptron Linear Aligners, set of 10: P/N 91610124 (1)
VDO Sceptron/Fatron™ Linear Coupler: P/N 91611843 (2)



VDO Sceptron Hinge Coupler: P/N MAR-91616140



VDO Sceptron Pivot Coupler: P/N 91611793



VDO Sceptron/Fatron Floorstands, set of two: P/N 91611792



VDO Sceptron Spigot Adapter, 28 mm: P/N 91611791

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black: P/N 91604006

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver: P/N 91604007

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GENERIC SYSTEM DIAGRAM – VDO SCEPTRON XB (P3 PowerPort 500 IP Rental)



Lighting Console



(PROVIDED BY OTHERS)

- Please find the different DMX modes and channel counts in the User Manual.

P3 System Controllers



P3-PC System Controller
Free download

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 20.736 pixels output
- Up to 207/648 VDO Sceptron XB

NDI or ScreenCapture Input



P3-175 System Controller
P/N MAR-90721100

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 520.000 pixels output
- Up to 2000 VDO Sceptron XB

HDMI or NDI Input



P3-275 System Controller
P/N MAR-90721101

- Supports input resolutions up to 3840x2160
- Up to 1024 Art-Net/sACN universes input
- Up to 1.040.000 pixels output
- Up to 6000 VDO Sceptron XB

HDMI or NDI Input

Media Server (Provided by others)

Art-Net or sACN from Lighting Console directly to P3 PowerPort

P3 from P3 System Controller directly to P3 PowerPort

VDO Sceptron XB generic layout

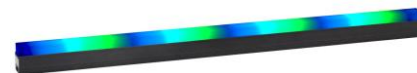


P3 PowerPort 500 IP Rental
P/N MAR-90721201

Power+Data Extension Cable, Rental, DCE-DCE

P/N MAR-91700100 (1m)	P/N MAR-91700111 (DCE Male-Male)
P/N MAR-91700101 (2,5m)	P/N MAR-91700112 (DCE Female-Female)
P/N MAR-91700102 (5m)	P/N MAR-91700114 (DCE to Ethernet)
P/N MAR-91700103 (10m)	P/N MAR-91700106 (100m LSZH bulk cable)
P/N MAR-91700104 (25m)	P/N MAR-91700107 (DCE Male Connector)
P/N MAR-91700105 (100m bulk cable)	P/N MAR-91700108 (DCE Female Connector)

Maximum 100m Ethernet Cable between Controller and P3 PowerPort (extendable via Gigabit Switch or conversion to fiber)



VDO Sceptron XB

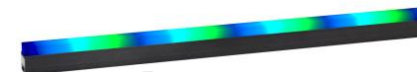
P/N MAR-90357901 – VDO Sceptron XB 320mm
P/N MAR-90357902 – VDO Sceptron XB 1000mm

Hybrid Power+Data Cable DCE-DCE



DCE DataSplitterBooster IP

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



VDO Sceptron XB

Hybrid Power+Data Cable DCE-DCE

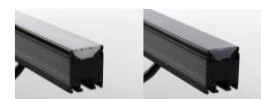


VDO Sceptron XB

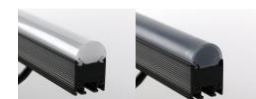
Closing Cap Female
P/N MAR-91700110

Optical

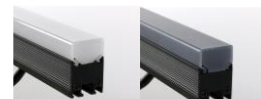
	320mm	1000mm
Flat Diffuser	P/N 91610111	P/N 91610112
Flat Smoked Diffuser	P/N 91610113	P/N 91610114
Round Diffuser	P/N 91610115	P/N 91610116
Round Smoked Diffuser	P/N 91610117	P/N 91610118
Square Diffuser	P/N 91610119	P/N 91610120
Square Smoked Diffuser	P/N 91610121	P/N 91610122
Tube Diffuser	P/N 91611630	P/N 91611640
Tube Smoked Diffuser	P/N 91611650	P/N 91611660
Graze Lens	P/N MAR-91616131	P/N MAR-91616132
Blade Lens	P/N MAR-91616133	P/N MAR-91616134
Glare Shield	P/N MAR-91616137	P/N MAR-91616138



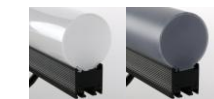
Flat Diffuser/Smoked Diffuser



Round Diffuser/Smoked Diffuser



Square Diffuser/Smoked Diffuser



Tube Diffuser/Smoked Diffuser



Graze Lens / Blade Lens



Glare shield

Max. distance between source (P3 PowerPort 500 IP Rental) and first VDO Sceptron XB in daisy-chain: **75m***

Install blanking caps on all unused female connectors at end of chains (if outdoor)

* distances can be extended (extra 75m) using the DCE DataSplitterBooster IP

CABLES:

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175 - 200m (574 - 656ft.)**	3m of fixtures	5m of fixtures

** If the total cable length is not given in the table, respect the maximum total number of meters given for the next highest length.

Accessories:



VDO Sceptron/Fatron Sliding Brackets, set of 10: P/N 91610123

Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018 (1)
Low Profile VDO Sceptron™/Fatron™ Half Coupler: P/N 91611790 (2)

VDO Sceptron Parallel Couplers, 30/40/50 mm, set of 10: P/N 91610125 (1)
VDO Sceptron Parallel Couplers, 60/70/80 mm, set of 10: P/N 91610138 (2)

VDO Sceptron Linear Aligners, set of 10: P/N 91610124 (1)
VDO Sceptron/Fatron™ Linear Coupler: P/N 91611843 (2)

VDO Sceptron Hinge Coupler: P/N MAR-91616140

VDO Sceptron Pivot Coupler: P/N 91611793

VDO Sceptron/Fatron Floorstands, set of two: P/N 91611792

VDO Sceptron Spigot Adapter, 28 mm: P/N 91611791

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black: P/N 91604006
Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver: P/N 91604007

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GENERIC SYSTEM DIAGRAM – VDO SCEPTRON XB (DCE PSU 240 IP)



Lighting Console



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- Please find the different DMX modes and channel counts in the User Manual.

P3 System Controllers



P3-PC System Controller
Free download

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 20.736 pixels output
- Up to 207/648 VDO Sceptron XB

NDI or ScreenCapture Input

HDMI or NDI Input



P3-175 System Controller
P/N MAR-90721100

- Supports input resolutions up to 1920x1080
- Up to 256 Art-Net/sACN universes input
- Up to 520.000 pixels output
- Up to 2000 VDO Sceptron XB



P3-275 System Controller
P/N MAR-90721101

- Supports input resolutions up to 3840x2160
- Up to 1024 Art-Net/sACN universes input
- Up to 1.040.000 pixels output
- Up to 6000 VDO Sceptron XB

HDMI or NDI Input

Art-Net or sACN from Lighting Console directly to DCE PSU

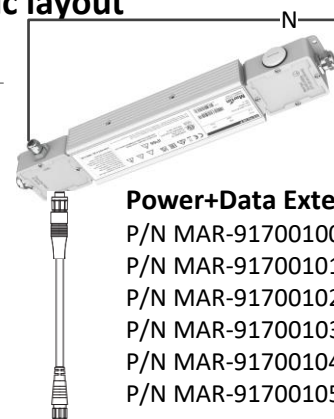
P3 from P3 System Controller directly to DCE PSU

N (Art-Net/sACN)

OR (Art-Net/sACN from Lighting Console to P3 System Controller, and then P3 from P3 System Controller to DCE PSU)

N (P3)

VDO Sceptron XB generic layout

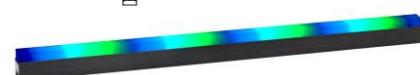


DCE PSU 240 IP
P/N MAR-90721203

Power+Data Extension Cable, Rental, DCE-DCE

- | | |
|------------------------------------|---|
| P/N MAR-91700100 (1m) | P/N MAR-91700111 (DCE Male-Male) |
| P/N MAR-91700101 (2,5m) | P/N MAR-91700112 (DCE Female-Female) |
| P/N MAR-91700102 (5m) | P/N MAR-91700114 (DCE to Ethernet) |
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Maximum 100m Ethernet Cable between Controller and DCE PSU (extendable via Gigabit Switch or conversion to fiber)



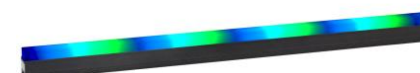
VDO Sceptron XB
P/N MAR-90357901 – VDO Sceptron XB 320mm
P/N MAR-90357902 – VDO Sceptron XB 1000mm

Hybrid Power+Data Cable DCE-DCE



DCE DataSplitterBooster IP

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



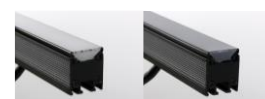
Hybrid Power+Data Cable DCE-DCE



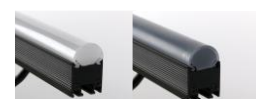
Closing Cap Female
P/N MAR-91700110

Optical

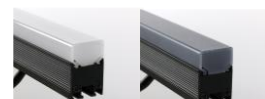
- | | 320mm | 1000mm |
|------------------------|------------------|------------------|
| Flat Diffuser | P/N 91610111 | P/N 91610112 |
| Flat Smoked Diffuser | P/N 91610113 | P/N 91610114 |
| Round Diffuser | P/N 91610115 | P/N 91610116 |
| Round Smoked Diffuser | P/N 91610117 | P/N 91610118 |
| Square Diffuser | P/N 91610119 | P/N 91610120 |
| Square Smoked Diffuser | P/N 91610121 | P/N 91610122 |
| Tube Diffuser | P/N 91611630 | P/N 91611640 |
| Tube Smoked Diffuser | P/N 91611650 | P/N 91611660 |
| Graze Lens | P/N MAR-91616131 | P/N MAR-91616132 |
| Blade Lens | P/N MAR-91616133 | P/N MAR-91616134 |
| Glare Shield | P/N MAR-91616137 | P/N MAR-91616138 |



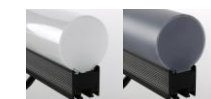
Flat Diffuser/Smoked Diffuser



Round Diffuser/Smoked Diffuser



Square Diffuser/Smoked Diffuser



Tube Diffuser/Smoked Diffuser



Graze Lens / Blade Lens



Glare shield

Max. distance between source (DCE PSU 240 IP) and first VDO Sceptron XB in daisy-chain: **75m***

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VDO Sceptron Parallel Couplers, 60/70/80 mm, set of 10: P/N 91610138 (2)



VDO Sceptron Linear Aligners, set of 10: P/N 91610124 (1)

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VDO Sceptron Hinge Coupler: P/N MAR-91616140



VDO Sceptron Pivot Coupler: P/N 91611793



VDO Sceptron/Fatron Floorstands, set of two: P/N 91611792



VDO Sceptron Spigot Adapter, 28 mm: P/N 91611791



Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black: P/N 91604006

Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver: P/N 91604007

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