

# GENERIC SYSTEM DIAGRAM – VDO FATRON WITH P3 CONTROL (PowerPort 1500)



## P3 Controllers



- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 128 Art-Net universes
- Maximum 103/324 VDO Fatron

Internal Video input, Art-Net, sACN



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

- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 128 Art-Net universes
- Maximum 500/1562 VDO Fatron

V/N



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

- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 128 Art-Net universes
- Maximum 2000 VDO Fatron

V/N



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

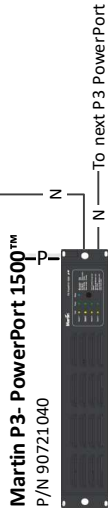
- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 64 Art-Net universes
- Maximum 2000 VDO Fatron

V/N

DVI or 3G-SDI Video input, DMX, Art-Net, sACN

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

## VDO Fatron generic layout



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

**Hybrid Power+Data Cable Rental BBD-BBD**

- P/N 91616041 (1m)
- P/N 91616024 (2.5m)
- P/N 91616042 (5m)
- P/N 91616043 (10m)
- P/N 91616044 (25m)
- P/N 91616045 (100m bulk cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)

## VDO Sceptrotron

- P/N 90357691 - VDO Fatron 20™, 320 mm, in cardboard box (Square Diffuser)
- P/N 90357692 - VDO Fatron 20™, 1000 mm, in cardboard box (Square Diffuser)

**Hybrid Power+Data Cable Rental BBD-BBD**

(Not required if VDO Fatron are mounted next to each other (<50cm))

Optical	320mm	1000mm
Flat Diffuser	P/N 91611809	P/N 91611810
Flat Smoked Diffuser	P/N 91611811	P/N 91611812
Round Diffuser	P/N 91611813	P/N 91611814
Round Smoked Diffuser	P/N 91611815	P/N 91611816
Square Diffuser	P/N 91611817	P/N 91611818
Square Smoked Diffuser	P/N 91611819	P/N 91611820
NoBlend Diffuser	P/N 91611825	P/N 91611826
NoBlend Smoked Diffuser	P/N 91611827	P/N 91611828
Lens Array Narrow	P/N 91611831	P/N 91611832



Flat Diffuser/Smoked Diffuser  
Round Diffuser/Smoked Diffuser  
Square Diffuser/Smoked Diffuser  
NoBlend Diffuser/Smoked Diffuser  
Lens Array

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

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

Fixture type	Maximum total number of fixtures in chain	Maximum permitted length VDO Fatron per PowerPort 1500 output	Maximum total length of chain (fixtures and cables)
VDO Fatron 20, 320mm	15		50m
VDO Fatron 20, 1000mm	5		50m

## Accessories:



- VDO Sceptrotron™/Fatron™ Sliding Brackets, set of 10: P/N 91610123
- VDO Dotron™ to VDO Sceptrotron™/Fatron™ Coupler: P/N 91616071
- Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018 (1)
- Low Profile VDO Sceptrotron™/Fatron™ Half Coupler: P/N 91611790 (2)

VDO Fatron™ Curving Coupler: P/N 91610164

VDO Sceptrotron™/Fatron™ Linear Coupler: P/N 91611843

VDO Dotron™ to VDO Sceptrotron™/Fatron™ Pivot Coupler: P/N 91616072

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

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

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

**CABLES:**  
D - DIMX CABLE F - FIBER OPTIC CABLE (PROVIDED BY OTHERS) H - HYBRID CABLE (PROVIDED BY MARTIN) P - POWER CABLE V - VIDEO CABLE (PROVIDED BY OTHERS) N - CAT6 STP CABLE (PROVIDED BY OTHERS)

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# GENERIC SYSTEM DIAGRAM – VDO FATRON WITH P3 CONTROL (PowerPort 1000)



## P3 Controllers



- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 128 Art-Net universes
- Maximum 103/324 VDO Fatron

Internal Video input, Art-Net, sACN



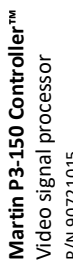
- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 128 Art-Net universes
- Maximum 500/1562 VDO Fatron

DVI Video input, DMX, Art-Net, sACN



- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 128 Art-Net universes
- Maximum 2000 VDO Fatron

DVI or 3G-SDI Video input, DMX, Art-Net, sACN



- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 64 Art-Net universes
- Maximum 2000 VDO Fatron

V/N



- Up to 2,080,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 64 Art-Net universes
- Maximum 2000 VDO Fatron

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

## VDO Fatron generic layout

**Martin P3 - PowerPort 1000™**  
Rental Model  
P/N 90721070



## Hybrid Power+Data Cable Rental BBD-BBD

- P/N 91616041 (1m)
- P/N 91616024(2.5m)
- P/N 91616042 (5m)
- P/N 91616043 (10m)
- P/N 91616044 (25m)
- P/N 91616045 (100m bulk cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)



## VDO Sceptro™

- P/N 90357691 - VDO Fatron 20™, 320 mm, in cardboard box (Square Diffuser)
- P/N 90357692 - VDO Fatron 20™, 1000 mm, in cardboard box (Square Diffuser)



Maximum length (including fixtures and cable) of a linked chain of VDO Fatron fixtures is 50 m

## Hybrid Power+Data Cable Rental BBD-BBD

(Not required if VDO Fatron are mounted next to each other (<50cm))

Optical	320mm	1000mm
Flat Diffuser	P/N 91611809	P/N 91611810
Flat Smoked Diffuser	P/N 91611811	P/N 91611812
Round Diffuser	P/N 91611813	P/N 91611814
Round Smoked Diffuser	P/N 91611815	P/N 91611816
Square Diffuser	P/N 91611817	P/N 91611818
Square Smoked Diffuser	P/N 91611819	P/N 91611820
NoBlend Diffuser	P/N 91611825	P/N 91611826
NoBlend Smoked Diffuser	P/N 91611827	P/N 91611828
Lens Array Narrow	P/N 91611831	P/N 91611832



Flat Diffuser/Smoked Diffuser  
Round Diffuser/Smoked Diffuser  
Square Diffuser/Smoked Diffuser  
NoBlend Diffuser/Smoked Diffuser  
Lens Array

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

Fixture type	Maximum total number of fixtures in chain	Maximum permitted length VDO Fatron per PowerPort 1000 output	Maximum total length of chain (fixtures and cables)
VDO Fatron 20, 320mm	10		50m
VDO Fatron 20, 1000mm	3		50m

## Accessories:



- VDO Sceptro™/Fatron™ Sliding Brackets, set of 10: P/N 91610123
- VDO Dotron™ to VDO Sceptro™/Fatron™ Coupler: P/N 91616071
- Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018 (1)
- Low Profile VDO Sceptro™/Fatron™ Half Coupler: P/N 91611790 (2)
- VDO Fatron™ Curving Coupler: P/N 91610164
- VDO Sceptro™/Fatron™ Linear Coupler: P/N 91611843
- VDO Dotron™ to VDO Sceptro™/Fatron™ Pivot Coupler: P/N 91616072
- VDO Sceptro™/Fatron™ Floorstands, set of two: P/N 91611792
- VDO Sceptro™/Fatron™ Floorstands, set of two: P/N 91611792
- 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

**CABLES:**  
D - DIMX CABLE F - FIBER OPTIC CABLE (PROVIDED BY OTHERS) H - HYBRID CABLE (PROVIDED BY MARTIN) P - POWER CABLE V - VIDEO CABLE (PROVIDED BY OTHERS) N - CAT6 STP CABLE (PROVIDED BY OTHERS)

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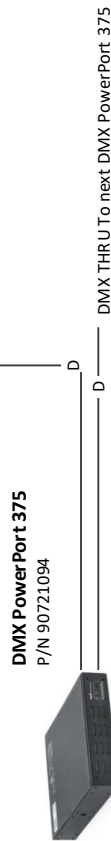
# GENERIC SYSTEM DIAGRAM – VDO FATRON WITH DMX CONTROL (DMX PowerPort 375)



(PROVIDED BY OTHERS)

Fixture type	DMX control channels			DMX channels per fixture, Pixel mode
	DMX channels per fixture, RGB mode	DMX channels per fixture, Basic mode	DMX channels per fixture, Segment mode	
VDO Fatron 20, 320mm	3	10	19	55
VDO Fatron 20, 1000mm	3	10	37	157

## VDO Fatron generic layout



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

**Hybrid Power+Data Cable Rental BBD-BBD**

- P/N 91616041 (1m)
- P/N 91616024(2.5m)
- P/N 91616042 (5m)
- P/N 91616043 (10m)
- P/N 91616044 (25m)
- P/N 91616045 (100m bulk cable)
- P/N 91611750 (BBD Male Connector)
- P/N 91611751 (BBD Female Connector)

### VDO Sceptron

- P/N 90357691 - VDO Fatron 20™, 320 mm, in cardboard box (Square Diffuser)
- P/N 90357692 - VDO Fatron 20™, 1000 mm, in cardboard box (Square Diffuser)

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

(Not required if VDO Fatron are mounted next to each other (<50cm))

Optical	320mm	1000mm
Flat Diffuser	P/N 91611809	P/N 91611810
Flat Smoked Diffuser	P/N 91611811	P/N 91611812
Round Diffuser	P/N 91611813	P/N 91611814
Round Smoked Diffuser	P/N 91611815	P/N 91611816
Square Diffuser	P/N 91611817	P/N 91611818
Square Smoked Diffuser	P/N 91611819	P/N 91611820
NoBlend Diffuser	P/N 91611825	P/N 91611826
NoBlend Smoked Diffuser	P/N 91611827	P/N 91611828
Lens Array Narrow	P/N 91611831	P/N 91611832



Flat Diffuser/Smoked Diffuser  
Round Diffuser/Smoked Diffuser  
Square Diffuser/Smoked Diffuser  
NoBlend Diffuser/Smoked Diffuser  
Lens Array

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

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

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

Fixture type	Maximum permitted length VDO Fatron per DMX PowerPort 375	
	Maximum total number of fixtures in chain	Maximum total length of chain (fixtures and cables)
VDO Fatron 20, 320mm	15	50m
VDO Fatron 20, 1000mm	5	50m

### Accessories:



- VDO Sceptron™/Fatron™ Sliding Brackets, set of 10: P/N 91610123
- VDO Dotron™ to VDO Sceptron™/Fatron™ Coupler: P/N 91616071
- Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018 (1)
- Low Profile VDO Sceptron™/Fatron™ Half Coupler: P/N 91611790 (2)

VDO Fatron™ Curving Coupler: P/N 91610164

VDO Sceptron™/Fatron™ Linear Coupler: P/N 91611843

VDO Dotron™ to VDO Sceptron™/Fatron™ Pivot Coupler: P/N 91616072

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

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

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

**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 - CAT6 STP CABLE (PROVIDED BY OTHERS)

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