GENERIC SYSTEM DIAGRAM – VC-GRID/VC-STRIP WITH P3 CONTROL

Martin by HARMAN

Media Server (Provided by others)

P3 Controllers

Internal Video input | DVI Video input | DVI Video input | DVI or 3G-SDI Video input

P3-PC™
P/N 90721030

- Up to 20,736 pixels
- On-screen grabber for video-capture
- Maximum 2000 VC-Grid/VC-Strip

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 VC-Grid/VC-Strip

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 VC-Grid/VC-Strip

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 VC-Grid/VC-Strip

VC-Grid generic layout

Martin P3- PowerPort 1500™
P/N 90721040

N — To next P3 PowerPort

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Grid™

P/N 90357540 – 16x16 15 RGB
P/N 90357010 - 8x8 25 RGB
P/N 90357550 – 8x8 30 RGB
P/N 90357560 – 8x8 60 RGB
P/N 90357570 – 4x4 60 RGB

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

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

Maximum VC-Grids per PowerPort
VC-Grid 16x16 15	16 pcs
VC-Grid 8x8 25	48 pcs
VC-Grid 8x8 30	48 pcs
VC-Grid 8x8 60	48 pcs
VC-Grid 4x4 60	180 pcs
(Or a combination of above)

Maximum VC-Grids per output
VC-Grid 16x16 15	4 pcs
VC-Grid 8x8 25	12 pcs
VC-Grid 8x8 30	12 pcs
VC-Grid 8x8 60	12 pcs
VC-Grid 4x4 60	45 pcs
(Or a combination of above)

Total lenght from PowerPort to last VC-Grid should be less than **50m** (not including the VC-Grid itself)

VC-Grid 8x8 60 | VC-Grid 4x4 60 | VC-Grid 8x8 30 | VC-Grid 8 x8 25 | VC-Grid 16x16 15

PCB-PCB Link Cable to next VC-Grid/VC-Strip

VC-Strip generic layout

Martin P3- PowerPort 1500™
P/N 90721040

N — To next P3 PowerPort

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Strip™

P/N 90357440 – 32x1 15 RGB
P/N 90357450 – 16x1 15 RGB
P/N 90357290 – 16x1 25 RGB
P/N 90357320 – 8x1 25 RGB
P/N 90357460 – 16x1 30 RGB
P/N 90357470 – 8x1 30 RGB
P/N 90357480 – 8x1 60 RGB
P/N 90357490 – 4x1 60 RGB

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

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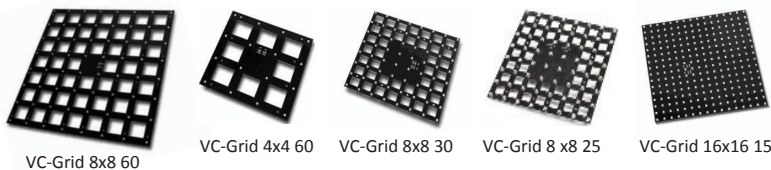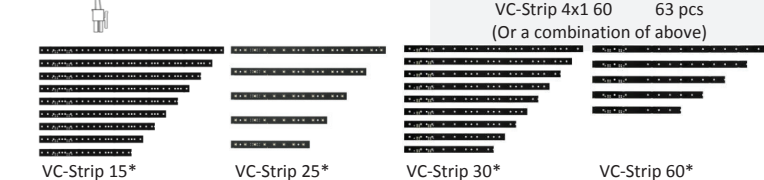(one per output)

Maximum VC-strips per PowerPort
VC-Strip 32x1 15	128 pcs
VC-Strip 16x1 15	252 pcs
VC-Strip 16x1 25	180 pcs
VC-Strip 8x1 25	252 pcs
VC-Strip 16x1 30	180 pcs
VC-Strip 8x1 30	252 pcs
VC-Strip 8x1 60	252 pcs
VC-Strip 4x1 60	252 pcs
(Or a combination of above)

Maximum VC-strips per output
VC-Strip 32x1 15	32 pcs
VC-Strip 16x1 15	63 pcs
VC-Strip 16x1 25	45 pcs
VC-Strip 8x1 25	63 pcs
VC-Strip 16x1 30	45 pcs
VC-Strip 8x1 30	63 pcs
VC-Strip 8x1 60	63 pcs
VC-Strip 4x1 60	63 pcs
(Or a combination of above)

Total lenght from PowerPort to last VC-Strip should be less than **50m** (not including the VC-Strip itself)

VC-Strip 15* | VC-Strip 25* | VC-Strip 30* | VC-Strip 60*

PCB-PCB Link Cable to next VC-Grid/VC-Strip

* 2 standard lengths. Can be cut down in custom length (see user manual)

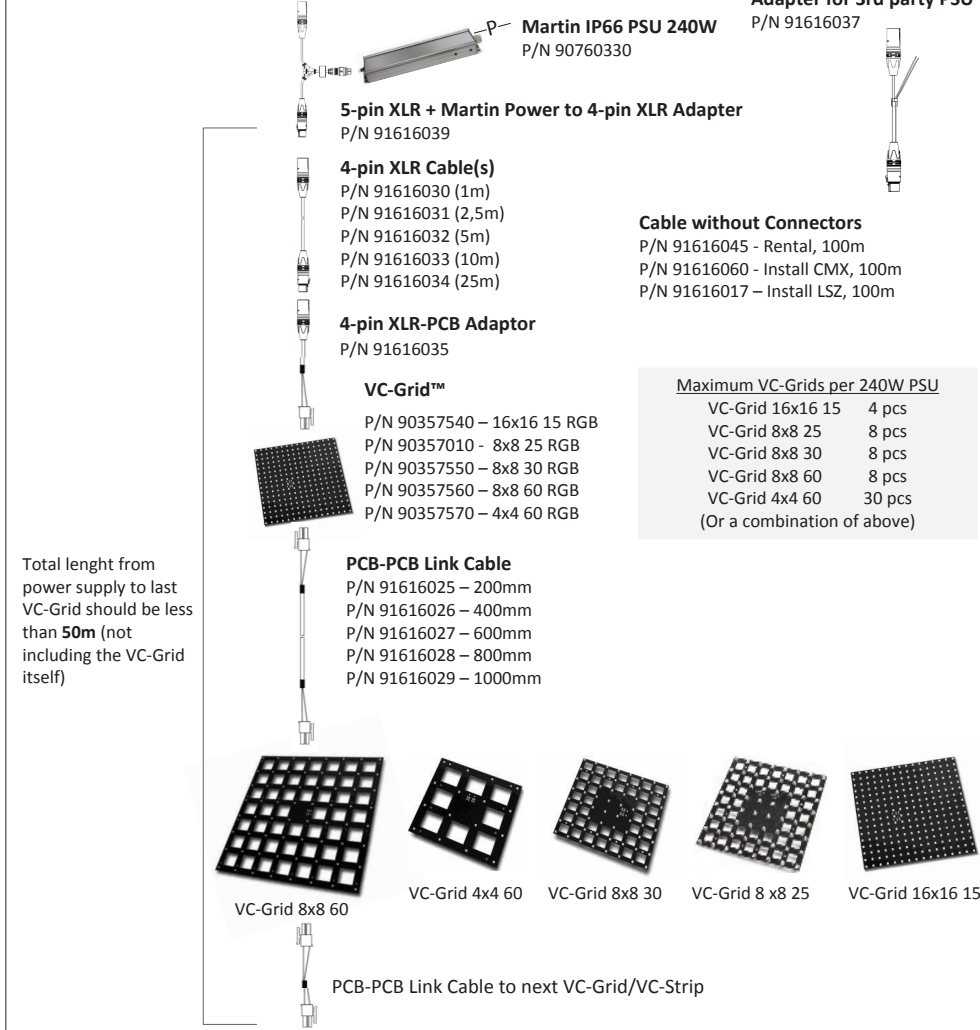# GENERIC SYSTEM DIAGRAM – VC-GRID/VC-STRIP WITH DMX CONTROL

DMX Source

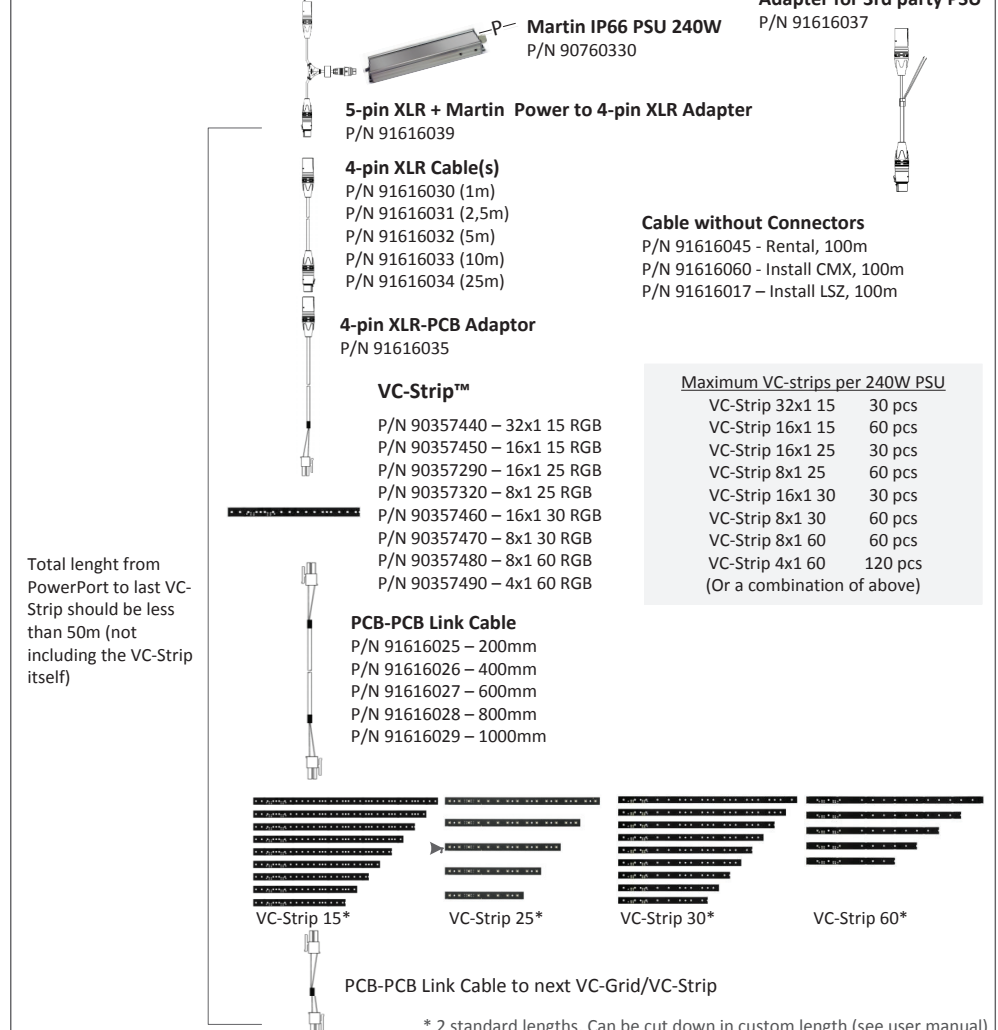**(PROVIDED BY OTHERS)**

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DMX limitations with Pixel-level control (1 universe)

VC-Grid 16x16 15	2 pcs	VC-Strip 32x1 15	5 pcs
VC-Grid 8x8 25	2 pcs	VC-Strip 16x1 15	10 pcs
VC-Grid 8x8 30	2 pcs	VC-Strip 16x1 25	10 pcs
VC-Grid 8x8 60	2 pcs	VC-Strip 8x1 25	21 pcs
VC-Grid 4x4 60	10 pcs	VC-Strip 16x1 30	10 pcs
(Or a combination of above)		VC-Strip 8x1 30	21 pcs
		VC-Strip 8x1 60	21 pcs
		VC-Strip 4x1 60	42 pcs
		(Or a combination of above)	

VC-Grid generic layout

Martin IP66 PSU 240W
P/N 90760330

Adapter for 3rd party PSU
P/N 91616037

5-pin XLR + Martin Power to 4-pin XLR Adapter
P/N 91616039

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Grid™

P/N 90357540 – 16x16 15 RGB
P/N 90357010 - 8x8 25 RGB
P/N 90357550 – 8x8 30 RGB
P/N 90357560 – 8x8 60 RGB
P/N 90357570 – 4x4 60 RGB

Maximum VC-Grids per 240W PSU
VC-Grid 16x16 15	4 pcs
VC-Grid 8x8 25	8 pcs
VC-Grid 8x8 30	8 pcs
VC-Grid 8x8 60	8 pcs
VC-Grid 4x4 60	30 pcs
(Or a combination of above)	

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Total lenght from power supply to last VC-Grid should be less than **50m** (not including the VC-Grid itself)

VC-Grid 8x8 60   VC-Grid 4x4 60   VC-Grid 8x8 30   VC-Grid 8 x8 25   VC-Grid 16x16 15

PCB-PCB Link Cable to next VC-Grid/VC-Strip

VC-Strip generic layout

Martin IP66 PSU 240W
P/N 90760330

Adapter for 3rd party PSU
P/N 91616037

5-pin XLR + Martin Power to 4-pin XLR Adapter
P/N 91616039

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Strip™

P/N 90357440 – 32x1 15 RGB
P/N 90357450 – 16x1 15 RGB
P/N 90357290 – 16x1 25 RGB
P/N 90357320 – 8x1 25 RGB
P/N 90357460 – 16x1 30 RGB
P/N 90357470 – 8x1 30 RGB
P/N 90357480 – 8x1 60 RGB
P/N 90357490 – 4x1 60 RGB

Maximum VC-strips per 240W PSU
VC-Strip 32x1 15	30 pcs
VC-Strip 16x1 15	60 pcs
VC-Strip 16x1 25	30 pcs
VC-Strip 8x1 25	60 pcs
VC-Strip 16x1 30	30 pcs
VC-Strip 8x1 30	60 pcs
VC-Strip 8x1 60	60 pcs
VC-Strip 4x1 60	120 pcs
(Or a combination of above)	

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Total lenght from PowerPort to last VC-Strip should be less than 50m (not including the VC-Strip itself)

VC-Strip 15*   VC-Strip 25*   VC-Strip 30*   VC-Strip 60*

PCB-PCB Link Cable to next VC-Grid/VC-Strip

* 2 standard lengths. Can be cut down in custom length (see user manual)

GENERIC SYSTEM DIAGRAM – VC-GRID/VC-STRIP WITH DMX CONTROL (DMX PowerPort 375)

Martin by HARMAN

DMX Source

(PROVIDED BY OTHERS)

DMX limitations with Pixel-level control (1 universe)

VC-Grid 16x16 15	2 pcs	VC-Strip 32x1 15	5 pcs
VC-Grid 8x8 25	2 pcs	VC-Strip 16x1 15	10 pcs
VC-Grid 8x8 30	2 pcs	VC-Strip 16x1 25	10 pcs
VC-Grid 8x8 60	2 pcs	VC-Strip 8x1 25	21 pcs
VC-Grid 4x4 60	10 pcs	VC-Strip 16x1 30	10 pcs
(Or a combination of above)		VC-Strip 8x1 30	21 pcs
		VC-Strip 8x1 60	21 pcs
		VC-Strip 4x1 60	42 pcs
		(Or a combination of above)	

VC-Grid generic layout

D

D —— DMX THRU To next DMX PowerPort 375

P

DMX PowerPort 375
P/N 90721094

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Grid™

P/N 90357540 – 16x16 15 RGB
P/N 90357010 - 8x8 25 RGB
P/N 90357550 – 8x8 30 RGB
P/N 90357560 – 8x8 60 RGB
P/N 90357570 – 4x4 60 RGB

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

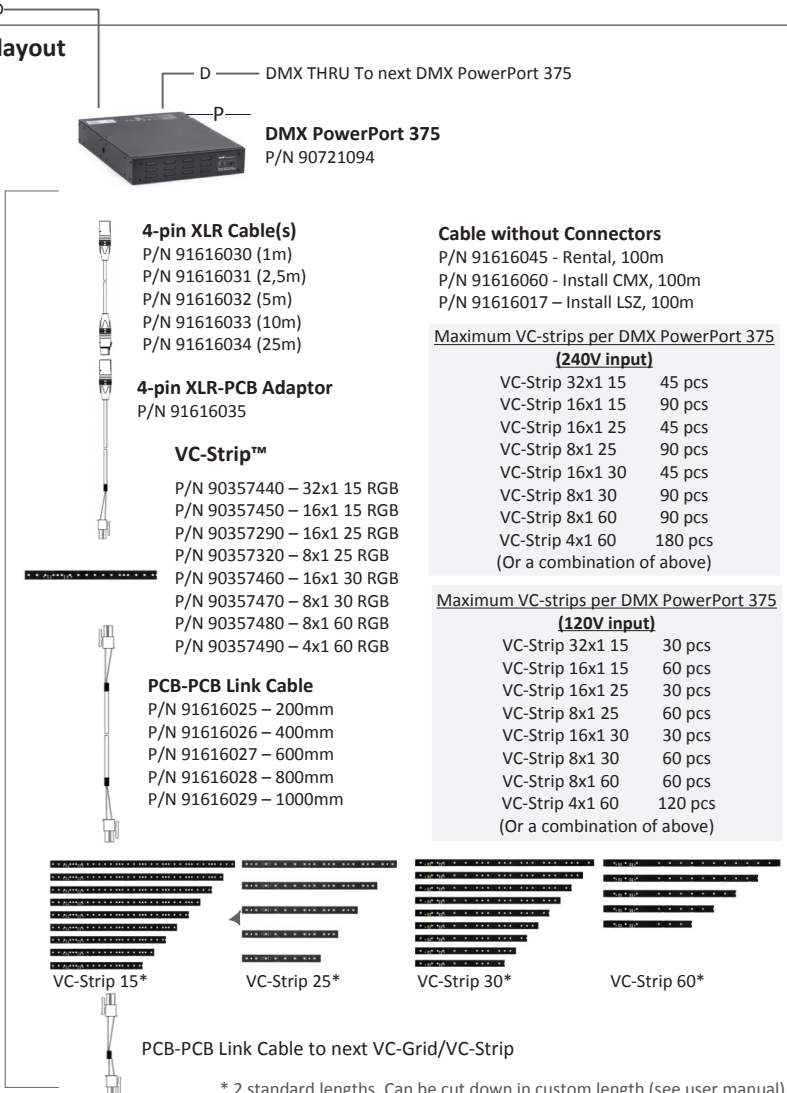### Maximum VC-Grids per DMX PowerPort 375 (240V input)

VC-Grid 16x16 15	6 pcs
VC-Grid 8x8 25	12 pcs
VC-Grid 8x8 30	12 pcs
VC-Grid 8x8 60	12 pcs
VC-Grid 4x4 60	45 pcs
(Or a combination of above)	

Maximum VC-Grids per DMX PowerPort 375 (120V input)

VC-Grid 16x16 15	4 pcs
VC-Grid 8x8 25	8 pcs
VC-Grid 8x8 30	8 pcs
VC-Grid 8x8 60	8 pcs
VC-Grid 4x4 60	30 pcs
(Or a combination of above)	

Total lenght from PowerPort to last VC-Grid should be less than **50m** (not including the VC-Grid itself)

VC-Grid 8x8 60   VC-Grid 4x4 60   VC-Grid 8x8 30   VC-Grid 8 x8 25   VC-Grid 16x16 15

PCB-PCB Link Cable to next VC-Grid/VC-Strip

VC-Strip generic layout

D

D —— DMX THRU To next DMX PowerPort 375

P

DMX PowerPort 375
P/N 90721094

4-pin XLR Cable(s)
P/N 91616030 (1m)
P/N 91616031 (2,5m)
P/N 91616032 (5m)
P/N 91616033 (10m)
P/N 91616034 (25m)

4-pin XLR-PCB Adaptor
P/N 91616035

VC-Strip™

P/N 90357440 – 32x1 15 RGB
P/N 90357450 – 16x1 15 RGB
P/N 90357290 – 16x1 25 RGB
P/N 90357320 – 8x1 25 RGB
P/N 90357460 – 16x1 30 RGB
P/N 90357470 – 8x1 30 RGB
P/N 90357480 – 8x1 60 RGB
P/N 90357490 – 4x1 60 RGB

PCB-PCB Link Cable
P/N 91616025 – 200mm
P/N 91616026 – 400mm
P/N 91616027 – 600mm
P/N 91616028 – 800mm
P/N 91616029 – 1000mm

Cable without Connectors
P/N 91616045 - Rental, 100m
P/N 91616060 - Install CMX, 100m
P/N 91616017 – Install LSZ, 100m

Maximum VC-strips per DMX PowerPort 375 (240V input)

VC-Strip 32x1 15	45 pcs
VC-Strip 16x1 15	90 pcs
VC-Strip 16x1 25	45 pcs
VC-Strip 8x1 25	90 pcs
VC-Strip 16x1 30	45 pcs
VC-Strip 8x1 30	90 pcs
VC-Strip 8x1 60	90 pcs
VC-Strip 4x1 60	180 pcs
(Or a combination of above)	

Maximum VC-strips per DMX PowerPort 375 (120V input)

VC-Strip 32x1 15	30 pcs
VC-Strip 16x1 15	60 pcs
VC-Strip 16x1 25	30 pcs
VC-Strip 8x1 25	60 pcs
VC-Strip 16x1 30	30 pcs
VC-Strip 8x1 30	60 pcs
VC-Strip 8x1 60	60 pcs
VC-Strip 4x1 60	120 pcs
(Or a combination of above)	

Total lenght from PowerPort to last VC-Strip should be less than 50m (not including the VC-Strip itself)

VC-Strip 15*   VC-Strip 25*   VC-Strip 30*   VC-Strip 60*

PCB-PCB Link Cable to next VC-Grid/VC-Strip

* 2 standard lengths. Can be cut down in custom length (see user manual)