

# GENERIC SYSTEM DIAGRAM – VC-GRID/VC-Strip WITH P3 CONTROL

## P3 Controllers



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

Internal Video input

DVI Video input



- Up to 100,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 VC-Grid/VC-Strip

Media Server (Provided by others)

DVI Video input



- Up to 520,000 pixels
- Supports input resolutions up to full HD (1920x1080)
- Maximum 2000 VC-Grid/VC-Strip

DVI or 3G-SDI Video input



- 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

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

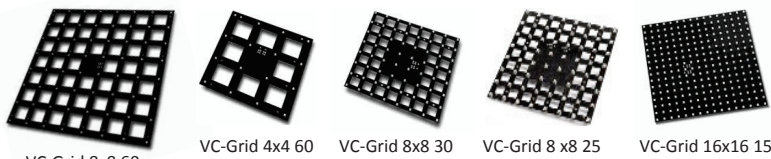
Maximum VC-Grids per PowerPort

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



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

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 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 4x1 60	63 pcs
(Or a combination of above)	

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



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

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

DMX Source

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

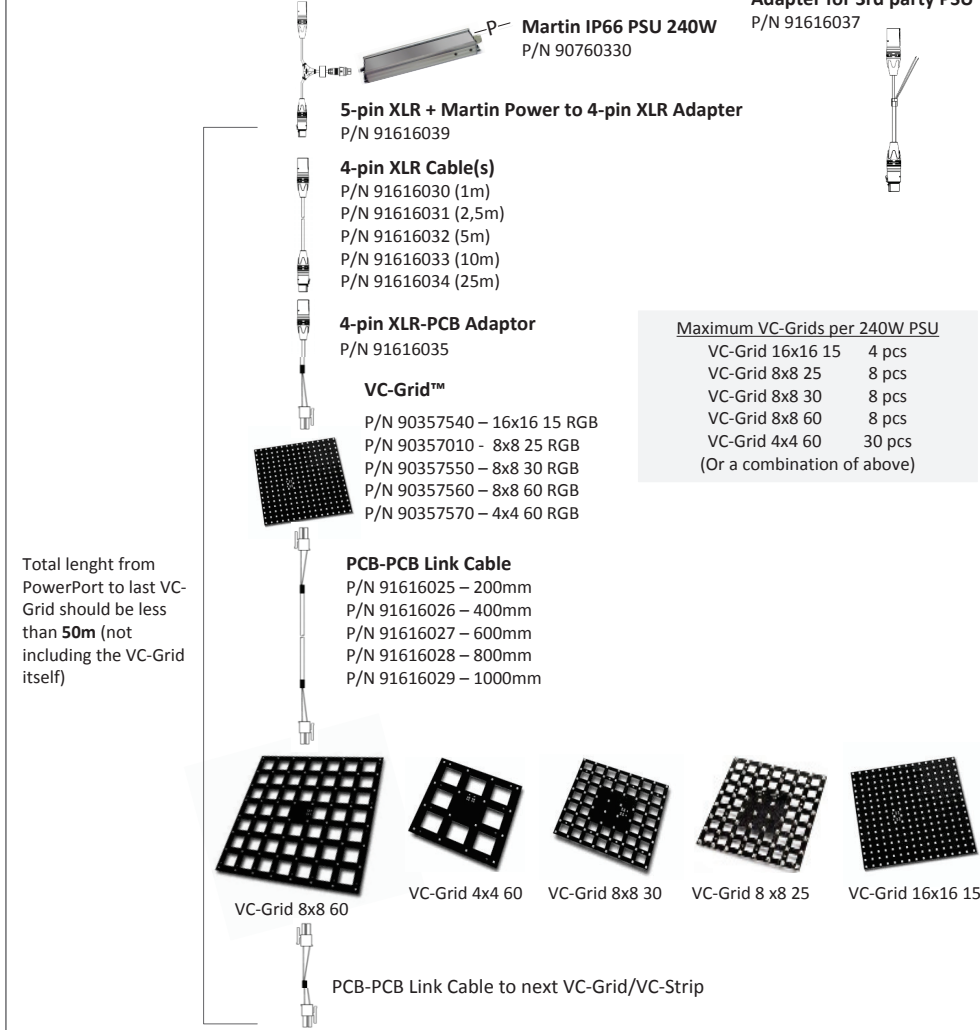


(PROVIDED BY OTHERS)

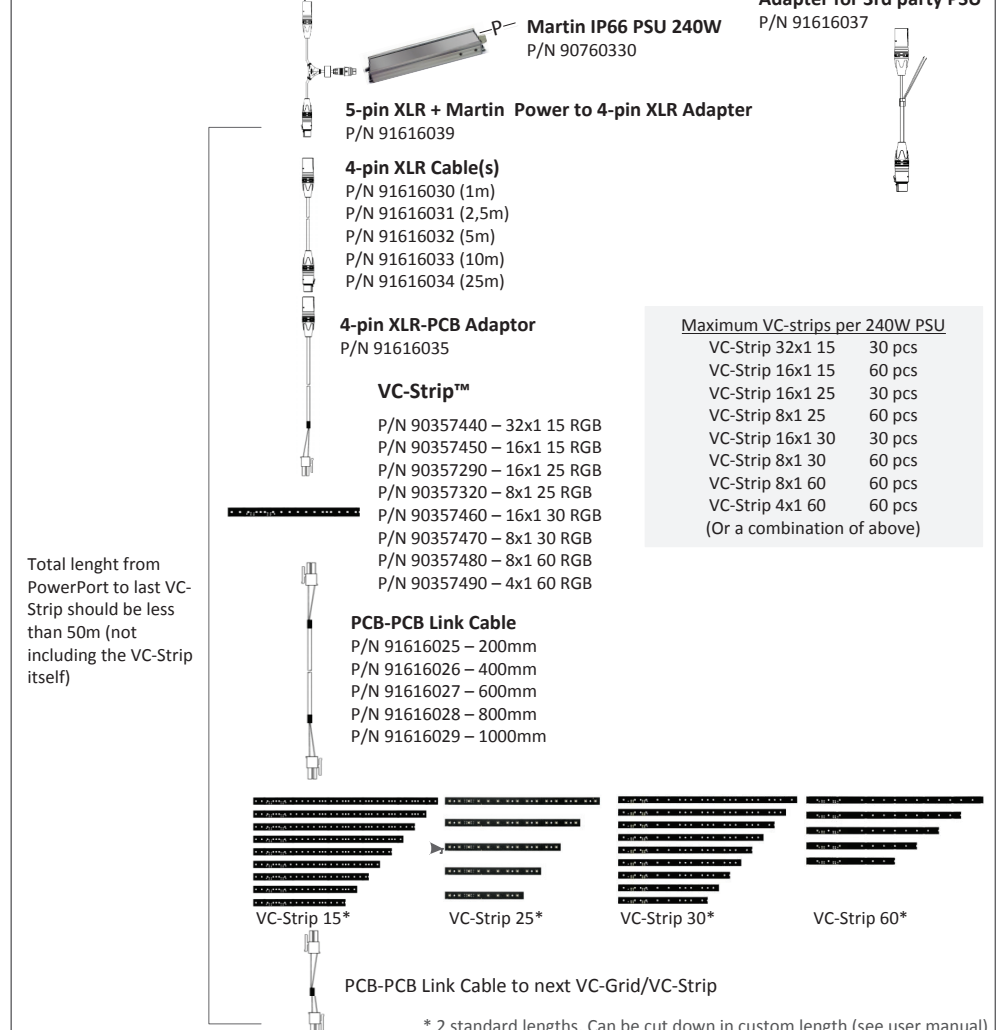
## DMX limitations with Pixel-level control (1 universe)

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



### VC-Strip generic layout



**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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