

P3 System Controllers™ Capacity Information Note

As of P3 System Controller software release 4.3.0.

Processing & Output Capacity

The number of LED video panels/fixtures that can be driven by a single P3 System Controller is defined by following limits:

	P3-050	P3-100	P3-150	P3-200	P3-300	P3-PC
Pixels	100.000	520.000	520.000	520.000	2.080.000 (520.000 per output)	20.736
LED Video Panels	1.000	500	1.000	500	1.000	1.000
Creative LED Video Modules	2.000	1.000	2.000	1.000	2.000	2.000
Flexible LED Video Modules	500	500	500	500	500	500

This means that the following numbers of products can be driven by one single P3 System Controller:

Product	P3-050°	P3-100	P3-150°	P3-200	P3-300°	P3-PC
LC2140 Panels (with P3 Upgrade Kit)	80 (= 160 sqm)	416 (= 832 sqm)	416* (= 832 sqm)	416 (= 832 sqm)	1.000 ^{3*} (= 2.000 sqm)	16 (= 32 sqm)
LC1140 Panels (with P3 Upgrade Kit)	160 (= 160 sqm)	500 (= 500 sqm)	832* (= 832 sqm)	500 (= 500 sqm)	1.000 ² (= 1.000 sqm)	33 (= 33 sqm)
LC2140+ Panels	80 (= 160 sqm)	416 (= 832 sqm)	416* (= 832 sqm)	416 (= 832 sqm)	1.000 ^{3*} (= 2.000 sqm)	16 (= 32 sqm)
EC-20 Panels	115 (= 40 sqm)	500 (= 173 sqm)	601* (= 208 sqm)	500 (= 173 sqm)	1.000 ² (= 346 sqm)	24 (= 8 sqm)
EC-10 Panels	28 (= 10 sqm)	150 (= 52 sqm)	150* (= 52 sqm)	150 (= 52 sqm)	600 ^{4*} (= 207 sqm)	6 (= 2 sqm)
VDO Face 5 HB Panels	9 (= 2,5 sqm)	50 (= 14 sqm)	50* (= 14 sqm)	50 (= 14 sqm)	200 ^{4*} (= 56 sqm)	2 (= 0,5 sqm)
VDO Face 5 HC Panels	9 (= 2,5 sqm)	50 (= 14 sqm)	50* (= 14 sqm)	50 (= 14 sqm)	200 ^{4*} (= 56 sqm)	2 (= 0,5 sqm)

VC-Grid 8x8 60 Modules	1.562 (= 360 sqm)	1.000 (= 230 sqm)	2.000 (= 461 sqm)	1.000 (= 230 sqm)	2.000 (= 461 sqm)	324 (= 75 sqm)
VC-Grid 4x4 60 Modules	2.000 (= 115 sqm)	1.000 (= 58 sqm)	2.000 (= 115 sqm)	1.000 (= 58 sqm)	2.000 (= 115 sqm)	1.296 (= 75 sqm)
VC-Grid 8x8 30 Modules	1.562 (= 90 sqm)	1.000 (= 58 sqm)	2.000 (= 115 sqm)	1.000 (= 58 sqm)	2.000 (= 115 sqm)	324 (= 19 sqm)
VC-Grid 8x8 25 Modules	1.562 (= 62 sqm)	1.000 (= 40 sqm)	2.000 (= 80 sqm)	1.000 (= 40 sqm)	2.000 (= 80 sqm)	324 (= 13 sqm)
VC-Grid 16x16 15 Modules	390 (= 22 sqm)	1.000 (= 58 sqm)	2.000* (= 115 sqm)	1.000 (= 58 sqm)	2.000 (= 115 sqm)	81 (= 5 sqm)
VC-Strip 8x1 60 Modules	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	2.000 (= 960 m)
VC-Strip 4x1 60 Modules	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	2.000 (= 480 m)
VC-Strip 16x1 30 Modules	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	1.296 (= 622 m)
VC-Strip 8x1 30 Modules	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	2.000 (= 480 m)
VC-Strip 16x1 25 Modules	2.000 (= 800 m)	1.000 (= 400 m)	2.000 (= 800 m)	1.000 (= 400 m)	2.000 (= 800 m)	1.296 (= 518 m)
VC-Strip 8x1 25 Modules	2.000 (= 400 m)	1.000 (= 200 m)	2.000 (= 400 m)	1.000 (= 200 m)	2.000 (= 400 m)	2.000 (= 400 m)
VC-Strip 32x1 15 Modules	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	1.000 (= 480 m)	2.000 (= 960 m)	648 (= 311 m)
VC-Strip 16x1 15 Modules	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	1.000 (= 240 m)	2.000 (= 480 m)	1.296 (= 311 m)
VDO Sceptron 40 1000mm	2.000 (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	829 (= 829 m)
VDO Sceptron 40 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	2.000 (= 640 m)
VDO Sceptron 20 1000mm	2.000 (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	414 (= 414 m)
VDO Sceptron 20 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	1.296 (= 415 m)
VDO Sceptron 10 1000mm	1.000 (= 1.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	207 (= 207 m)
VDO Sceptron 10 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	648 (= 207 m)
VDO Fatron 20 1000mm	500 (= 500 m)	1.000 (= 1.000 m)	2.000* (= 2.000 m)	1.000 (= 1.000 m)	2.000 (= 2.000 m)	103 (= 103 m)
VDO Fatron 20 320mm	1.562 (= 500 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	324 (= 104 m)
VDO Dotron Fixtures	2.000	1.000	2.000	1.000	2.000	2.000
Exterior PixLine 40 1280mm	2.000 (= 2.560 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	648 (= 829 m)

Exterior PixLine 40 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	2.000 (= 640 m)
Exterior PixLine 20 1280mm	1.562 (= 1.999 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	324 (= 415 m)
Exterior PixLine 20 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	1.296 (= 415 m)
Exterior PixLine 10 1280mm	781 (= 1.000 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	1.000 (= 1.280 m)	2.000 (= 2.560 m)	162 (= 207 m)
Exterior PixLine 10 320mm	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640 m)	1.000 (= 320 m)	2.000 (= 640m)	648 (= 207 m)
Exterior Dot-HP Fixtures	2.000	1.000	2.000	1.000	2.000	2.000
VC-Dot 1 Strings	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (up to 20.736 Dots in total)
VC-Dot 4 Strings	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (up to 20.736 Dots in total)
VC-Dot 9 Strings	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (number of Dots per string not important)	500 (up to 20.736 Dots in total)

² Fixtures to be split over at least 2 outputs of the P3-300 System Controller.

³ Fixtures to be split over at least 3 outputs of the P3-300 System Controller.

⁴ Fixtures to be split over at least 4 outputs of the P3-300 System Controller.

* When a fixture is rotated on the canvas, it (internally) consumes double the amount of pixels. This can limit the amount of products marked with *, when rotated.

° When fixtures with different pixel pitch are mixed onto a P3-050/150/300 System Controller, the fixtures with lower pixel pitch consume the equivalent of their surface in the native pixel pitch of the showfile. Examples:

- When placed in a 20mm showfile, an EC-20 panel “consumes” 864 pixels
- When placed in a 10mm showfile, an EC-20 panel “consumes” 3.456 pixels
- When placed in a 40mm showfile, an LC2140+ panel “consumes” 1.250 pixels
- When placed in a 10mm showfile, an LC2140+ panel “consumes” 20.000 pixels

This is only applicable for the P3-050/150/300 System Controllers.

If you need to drive more products than listed in the table above, you can simply add more P3 System Controllers as described in their user manuals.

DMX, Art-Net & K2 Capacity

The Light & Motion Controls on the P3 System Controllers are subject to following limits:

	Global Control	Light Controls	Motion Controls
P3-050	DMX or 1 universe of Art-Net*	DMX plus 32 universes of Art-Net	DMX or 1 universe of Art-Net* or K2
P3-100	DMX or 1 universe of Art-Net*	DMX plus 4 universes of Art-Net	DMX or 1 universe of Art-Net* or K2
P3-150	DMX or 1 universe of Art-Net*	DMX plus 32 universes of Art-Net	DMX or 1 universe of Art-Net* or K2
P3-200	DMX or 1 universe of Art-Net*	DMX plus 4 universes of Art-Net	DMX or 1 universe of Art-Net* or K2
P3-300	DMX or 1 universe of Art-Net*	DMX plus 32 universes of Art-Net	DMX or 1 universe of Art-Net* or K2
P3-PC	1 universe of Art-Net*	4 universes of Art-Net	1 universe of Art-Net* or K2

* Global Control & Motion Controls must use same universe of DMX or Art-Net.

P3 Processor



P3 PC : 20.700 Pixels, 207 Scepstrons



P3 050 : 100.000 Pixels, 1000 Scepstrons

P3 100/150/200 : 500.000 Pixels, 1000 Scepstrons

P3 300 : 2.000.000 Pixels, 2000 Scepstrons

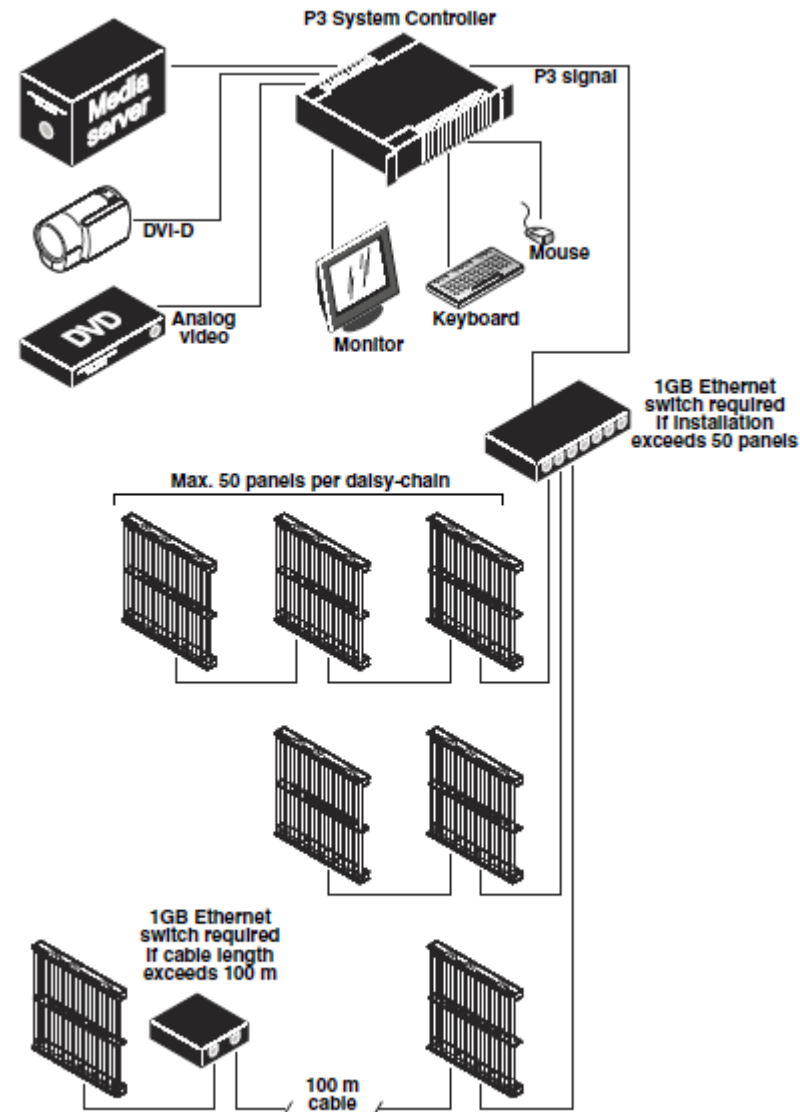


Figure 1: System layout

P3 câblage



Switch Gigabit



RJ45

P3



100m max



P3 Powerport



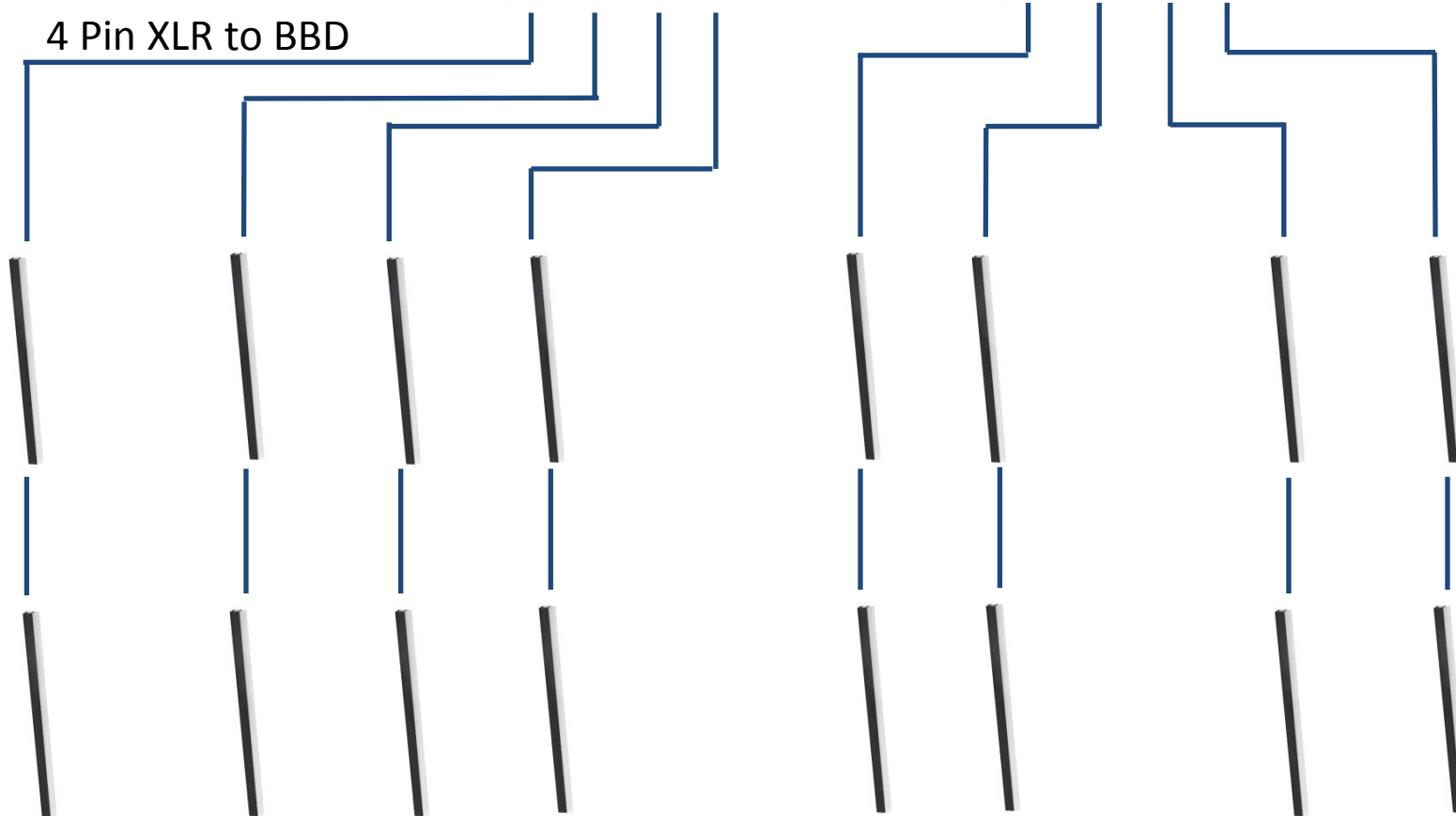
P3 Powerport



...

4 Pin XLR to BBD

BBD to BBD cable



50m max au dernier Scepteron

Accessoires

P3 Powerport à Sceptron



XLR 4 to BBD
#11840257

Alim 48V et DMX à Sceptron



XLR 5 + power to BBD
#11840276

Sceptron à DMX femelle



BBD to XLR 5
#11840258

Câble BBD
Sceptron à Sceptron



1; 2,5; 5; 10; 25m

Bracket



#91610123

Crochet



#91602018

Low bracket



#91611790

Accessoires

Linear Coupler



#91610124

Parallel Coupler
30, 40, 50



#91610125

Parallel Coupler
60,70,80



#91610138

Spigots



#91611791

Floor stand



#91611792

Pivot Coupler



#91611793

Test tool



#91610139

P3/DMX



RJ45

P3

DMX 5 broches



P3 Power Port



P3 Power Port

