

P3 System Controller DMX Protocol

Applicable when running P3 System Controller Software version 4.3.0 or higher.

The P3 System Controller is divided in 2 fixture types:

- P3 Global Control Fixture: Can be patched only once per P3 System Controller as it affects the entire System Controller and all fixtures attached to it.
- P3 Segment Control Fixture: Can be patched multiple times per P3 System Controller as it can be programmed to affect a single fixture, a group of fixtures or all fixtures. Just patch this fixture for every fixture or fixture group you want to have individual control over.

P3 Global Control Fixture

Channel	DMX Value	Default Value	Function
1		0	Screen Control [SNAP]
	0-127		Live Input
	128-135		Freeze
	136-143		Blackout
	144-151		Testpattern: Device Number
	152-159		Testpattern: White
	160-167		Testpattern: Red
	168-175		Testpattern: Green
	176-183		Testpattern: Blue
	184-191		Testpattern: Intensity Gradient
	192-199		Testpattern: Red Gradient
	200-207		Testpattern: Green Gradient
	208-215		Testpattern: Blue Gradient
	216-223		Testpattern: Colour Bars
	224-231		Testpattern: Scrolling Greyscale
	232-239		Testpattern: Scrolling Lines
240-247		Testpattern: Alignment Bar	
248-255		Unused (no change)	
2		0	Preset Recall [SNAP]
	0-50		No Change
	51-54		Preset 1
	55-58		Preset 2
	59-62		Preset 3
	63-66		Preset 4
	67-70		Preset 5
	71-74		Preset 6
	75-78		Preset 7
	79-82		Preset 8
83-86		Preset 9	

	87-90 91-94 95-98 99-102 103-106 107-110 111-114 115-118 119-122 123-126 127-130 131-134 135-138 139-142 143-146 147-150 151-154 155-158 159-162 163-166 167-170 171-174 175-178 179-182 183-186 187-190 191-194 195-198 199-202 203-206 207-210 211-214 215-218 219-222 223-226 227-230 231-234 235-238 239-242 243-246 247-250 251-255		Preset 10 Preset 11 Preset 12 Preset 13 Preset 14 Preset 15 Preset 16 Preset 17 Preset 18 Preset 19 Preset 20 Preset 21 Preset 22 Preset 23 Preset 24 Preset 25 Preset 26 Preset 27 Preset 28 Preset 29 Preset 30 Preset 31 Preset 32 Preset 33 Preset 34 Preset 35 Preset 36 Preset 37 Preset 38 Preset 39 Preset 40 Preset 41 Preset 42 Preset 43 Preset 44 Preset 45 Preset 46 Preset 47 Preset 48 Preset 49 Preset 50 Unused (no change)
3	0 ↓ 34 ↓ 127-128 ↓ 215	127	Color Temperature (MSB) [FADE] 2000°K ↓ 3200° K ↓ 6500° K ↓ 9600° K

	↓ 255		↓ 11000°K
4	0-255	255	Color Temperature, fine (LSB) [FADE]

P3 Segment Control Fixture – Intensity Mode

Channel	DMX Value	Default Value	Function
1	0-255	0	Intensity [FADE] Zero → Full

P3 Segment Control Fixture – RGB Mode

Channel	DMX Value	Default Value	Function
1	0-255	255	Red [FADE] Zero → Full
2	0-255	255	Green [FADE] Zero → Full
3	0-255	255	Blue [FADE] Zero → Full

P3 Segment Control Fixture – Basic Mode

Channel	DMX Value	Default Value	Function
1	0-255	0	Intensity (MSB) [FADE] Zero → Full
2	0-255	0	Intensity, fine (LSB) [FADE]
3	0-255	255	Red (MSB) [FADE] Zero → Full
4	0-255	255	Green (MSB) [FADE] Zero → Full
5	0-255	255	Blue (MSB) [FADE] Zero → Full

P3 Segment Control Fixture – Motion Mode

Channel	DMX Value	Default Value	Function
1	0	127	X Position (MSB) [FADE] Left

	↓ 127-128 ↓ 255		↓ No Shift ↓ Right
2	0-255	255	X Position, fine (LSB) [FADE]
3	0 ↓ 127-128 ↓ 255	127	Y Position (MSB) [FADE] Up ↓ No Shift ↓ Down
4	0-255	255	Y Position, fine (LSB) [FADE]
5	0 ↓ 127-128 ↓ 255	127	Rotation (MSB) [FADE] Full CCW ↓ No Rotation ↓ Full CW
6	0-255	255	Rotation, fine (LSB) [FADE]