

# DMX protocols

## *P-5 DMX protocols*

<b>P-5 - 3 channel mode - RGB plus auto white</b>			
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Red 0-100%
2	0-255	0-100	Green 0-100%
3	0-255	0-100	Blue 0-100%

<b>P-5 - 4 channel mode - RGBW</b>			
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Red 0-100%
2	0-255	0-100	Green 0-100%
3	0-255	0-100	Blue 0-100%
4	0-255	0-100	White 0-100%

**P-5 - 6 channel mode - RGBW plus effects**

<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-7	0-2	Shutter Blackout
	8-15	3-6	Shutter Open
	16-151	7-58	Variable Strobe
	152-175	59-68	Pulse Open
	176-199	69-78	Pulse Close
	200-244	79-95	Variable Random Strobe
	245-255	96-100	Shutter Open
2	0-255	0-100	Dimmer 0-100%
3	0-255	0-100	Red 0-100%
4	0-255	0-100	Green 0-100%
5	0-255	0-100	Blue 0-100%
6	0-255	0-100	White 0-100%

**P-5 - 8 channel mode (16-Bit) - RGBW plus fine**

<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Red 0-100% (MSB)
2	0-255	0-100	Red Fine (LSB)
3	0-255	0-100	Green 0-100% (MSB)
4	0-255	0-100	Green Fine (LSB)
5	0-255	0-100	Blue 0-100% (MSB)
6	0-255	0-100	Blue Fine (LSB)
7	0-255	0-100	White 0-100% (MSB)
8	0-255	0-100	White Fine (LSB)

**P-5 - 9 channel mode (16-Bit) - Dimmer & RGBW plus fine**

<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Dimmer 0-100%
2	0-255	0-100	Red 0-100% (MSB)
3	0-255	0-100	Red Fine (LSB)
4	0-255	0-100	Green 0-100% (MSB)
5	0-255	0-100	Green Fine (LSB)
6	0-255	0-100	Blue 0-100% (MSB)
7	0-255	0-100	Blue Fine (LSB)
8	0-255	0-100	White 0-100% (MSB)
9	0-255	0-100	White Fine (LSB)

**P-5 - 10 channel mode (16-Bit) - RGBW plus fine**

<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Dimmer 0-100% (MSB)
2	0-255	0-100	Dimmer Fine (LSB)
3	0-255	0-100	Red 0-100% (MSB)
4	0-255	0-100	Red Fine (LSB)
5	0-255	0-100	Green 0-100% (MSB)
6	0-255	0-100	Green Fine (LSB)
7	0-255	0-100	Blue 0-100% (MSB)
8	0-255	0-100	Blue Fine (LSB)
9	0-255	0-100	White 0-100% (MSB)
10	0-255	0-100	White Fine (LSB)

### *P-5 W DMX protocols*

<b>P-5W - 1 channel mode - Dimmer</b>			
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-255	0-100	Dimmer 0-100%

<b>P-5W - 2 channel mode - Strobe &amp; dimmer</b>			
<b>Channel</b>	<b>Value</b>	<b>Percent</b>	<b>Function</b>
1	0-7	0-3	Shutter Blackout
	8-15	4-5	Shutter Open
	16-151	6-59	Variable Strobe
	152-175	60-69	Variable Pulse Open
	176-199	70-78	Variable Pulse Close
	200-244	79-96	Variable Random Strobe
	245-255	97-100	Shutter Open
2	0-255	0-100	Dimmer 0-100%

**P-5W - 2-channel mode (16-bit) - Fine & coarse dimmer**

Channel	Value	Percent	Function
1	0-255	0-100	Dimmer 0-100% (MSB)
2	0-255	0-100	Fine dimmer (LSB)

***P-5 TW DMX protocols*****P-5TW - 2-channel mode - Dimmer/CTC**

Channel	Value	Percent	Function
1	0-255	0-100	Dimmer 0-100%
2	0-255	0-100	CTC 0-100% 2200K-5300K

**P-5TW - 4-channel mode - Tunable white**

Channel	Value	Percent	Function
1	0-255	0-100	White 2200K 0-100%
2	0-255	0-100	White 3000K 0-100%
3	0-255	0-100	White 4000K 0-100%
4	0-255	0-100	White 5300K 0-100%

**P-5TW - 6 channel mode - Strobe, dimmer & tunable white**

Channel	Value	Percent	Function
1	0-7	0-3	Shutter Blackout
	8-15	4-5	Shutter Open
	16-151	6-59	Variable Strobe
	152-175	60-69	Variable Pulse Open
	176-199	70-78	Variable Pulse Close
	200-244	79-96	Variable Random Strobe
	245-255	97-100	Shutter Open



2	0-255	0-100	Dimmer 0-100%
3	0-255	0-100	White 2200K 0-100%
4	0-255	0-100	White 3000K 0-100%
5	0-255	0-100	White 4000K 0-100%
6	0-255	0-100	White 5300K 0-100%

#### P-5TW - 8-channel mode - Tunable white, coarse & fine

Channel	Value	Percent	Function
1	0-255	0-100	White 2200K 0-100%
2	0-255	0-100	White 2200K fine
3	0-255	0-100	White 3000K 0-100%
4	0-255	0-100	White 3000K fine
5	0-255	0-100	White 4000K 0-100%
6	0-255	0-100	White 4000K fine
7	0-255	0-100	White 5300K 0-100%
8	0-255	0-100	White 5000K fine

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