

## RELATION COLOR SPOT150R DMX Protocol-16 bit

Mode 1 Channel	Mode 2 Channel	Value	Function	Type of control
1	1	0-255	<b>Pan</b> Pan movement by 530°	proportional
2	3	0-255	<b>Tilt</b> Tilt movement by 280°	proportional
3	2	0-255	<b>Pan fine</b> Fine control of pan movement	proportional
4	4	0-255	<b>Tilt fine</b> Fine control of tilt movement	proportional
5	5	0 1-249 250-252 253-255	<b>Speed of PAN/TILT movement</b> Max. speed (tracking mode) From max. speed to min.speed (vector mode) Max. speed(track.mode),black-out while color or gobo changes Max. speed(vector mode),black-out while PAN/TILT moving or colour or gobo changes	step proportional step step
6	6	0 10 21 32 42 53 64 74 85 96 106 117 128-189 190-193 194-255	<b>Colours</b> Open/white Turquoise Red Cyan Light green Magenta Light Blue Yellow Green Pink Blue Orange Forwards rainbow effect from fast to slow No rotation Backwards rainbow effect from slow to fast	proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional
7	7	0-11 12-23 24-35 36-47 48-59 60-71 72-83 84-95 <b>96-235</b>	<b>Rotating gobos</b> Open position (hole) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 <b><i>Shaking gobos with variable speed</i></b>	step step step step step step step step step
		96-115 116-135 136-155 156-175 176-195 196-215 216-235 236-255	Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo wheel rotation from slow to fast	proportional proportional proportional proportional proportional proportional proportional

Mode 1 Channel	Mode 2 Channel	Value	Function	Type of control
8	8	0-127 128-189 190-193 194-255	<b>Rotating gobo rotation</b> Gobo rotation Forwards gobo rotation from fast to slow No rotation Backwards gobo rotation from slow to fast	proportional proportional step proportional
9	9	0 1-63 64-95 96-127 128-139 140-159 160-175 176-191 192-223 224-255	<b>Shutter, Strobe, Reset</b> Shutter closed Light intensity from 0 to 100% Shutter open Strobe-effect from slow to fast (max 8 flashes/s) Reset ,shutter closed Shutter closed Pulse-effect in sequences with increasing speed Pulse-effect in sequences with decreasing speed Random strobe effect with increasing speed Shutter open	step proportional step proportional step step proportional proportional proportional proportional step

## 6. DMX Protocol-8 bit

Mode 3 Channel	Mode 4 Channel	Value	Function	Type of control
1	1	0-255	<b>Pan</b> Pan movement by 530°	proportional
2	2	0-255	<b>Tilt</b> Tilt movement by 280°	proportional
3		0 1-249 250-252 253-255	<b>Speed of PAN/TILT movement</b> Max. speed (tracking mode) From max. speed to min.speed (vector mode) Max. speed(track.mode),black-out while color or gobo changes Max. speed(vector mode),black-out while PAN/TILT moving or colour or gobo changes	step proportional step step
4	3	0 10 21 32 42 53 64 74 85 96 106 117 128-189 190-193 194-255	<b>Colours</b> Open/white Turquoise Red Cyan Light green Magenta Light Blue Yellow Green Pink Blue Orange Forwards rainbow effect from fast to slow No rotation Backwards rainbow effect from slow to fast	proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional
5	4	0-11 12-23 24-35 36-47 48-59 60-71 72-83 84-95 <b>96-235</b>	<b>Rotating gobos</b> Open position (hole) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 <b><i>Shaking gobos with variable speed</i></b>	step step step step step step step step step
		96-115 116-135 136-155 156-175 176-195 196-215 216-235 236-255	Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo wheel rotation from slow to fast	proportional proportional proportional proportional proportional proportional proportional
6	5	0-127 128-189 190-193 194-255	<b>Rotating gobo rotation</b> Gobo rotation Forwards gobo rotation from fast to slow No rotation Backwards gobo rotation from slow to fast	proportional proportional step proportional

Mode 3 Channel	Mode 4 Channel	Value	Function	Type of control
7	6	0- 1-63 64-95 96-127 128-139 140-159 160-175 176-191 192-223 224-255	<b>Shutter,Strobe,Reset</b> Shutter closed Light intensity from 0 to 100% Shutter open Strobe-effect from slow to fast (max 8 flashes/s) Reset ,shutter closed Shutter closed Pulse-effect in sequences with increasing speed Pulse-effect in sequences with decreasing speed Random strobe effect with increasing speed Shutter open	step proportional step proportional step step proportional proportional proportional step