

DMX protocol

Robin SilverScan - DMX protocol				
Version 1.0		Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit		
Mode/channel		DMX Value	Function	Type of control
1	2			
1	1		<b>Pan</b>	
		0 - 255	Pan movement by 180° (128=default)	proportional
2	2		<b>Pan Fine</b>	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	3		<b>Tilt</b>	
		0 - 255	Tilt movement by 55° (128=default)	proportional
4	4		<b>Tilt fine</b>	
		0 - 255	Fine control of tilt movement (0=default)	proportional
5	5		<b>Pan/Tilt speed , Pan/Tilt time</b>	
		0	Standard mode (0=default)	step
		1	Max. Speed Mode	step
			<b>Pan/Tilt speed mode</b>	
		2 - 255	Speed from max. to min.	proportional
			<b>Pan/Tilt time mode</b>	
		2 - 255	Time from 0.2 s to 25.5 sec.	proportional
6	6		<b>Power/Special functions</b>	
		0 - 9	Reserved (0=default)	
			<i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 30/25 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.</i>	
		10-14	DMX input: Wired DMX *	step
		15-19	DMX input: Wireless DMX *	step
			* function is active only 10 seconds after switching the fixture on	
		20-24	Graphic display On	step
		25-29	Graphic display Off	step
		30-49	Reserved	
		50-54	Dimmer curve: Square law	step
		55-59	Dimmer curve: Linear	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-89	Reserved	
		90 - 94	Pan/Tilt speed mode	step
		95-99	Pan/Tilt time mode	step
		100 - 104	Blackout while pan/tilt moving	step
		105 -109	Disabled blackout while pan/tilt moving	step
		110-114	Blackout while colour wheels moving	step
		115 -119	Disabled blackout while colour wheels moving	step
		120-139	Reserved	step
			<i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden.</i>	
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour system reset	step
		160 - 169	Gobo wheels + iris reset	step
		170 - 179	Reserved	
		180 - 189	Zoom/focus/frost/prism reset	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		190 - 199	Reserved	
		200 - 209	Total reset	step
		210 - 224	Reserved	
		225	PWM output frequency of LEDS: Standard (300Hz)**	step
		226	PWM output frequency of LEDS: High **	step
			** You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below . Default value of PWM frequency set in the fixture is Standard.	
		227	LED Frequency (step -6)	step
		228	LED Frequency (step -5)	step
		229	LED Frequency (step -4)	step
		230	LED Frequency (step -3)	step
		231	LED Frequency (step -2)	step
		232	LED Frequency (step -1)	step
		233	LED Frequency (Standard or High)	step
		234	LED Frequency (step +1)	step
		235	LED Frequency (step +2)	step
		236	LED Frequency (step +3)	step
		237	LED Frequency (step +4)	step
		238	LED Frequency (step +5)	step
		239	LED Frequency (step +6)	step
		240	Disable "Quiet mode"	step
		241 - 255	"Quiet mode" - fan noise control from min. to max.	proportional
<b>7</b>	<b>7</b>		<b>Colour wheel</b>	
			<b>Continual positioning</b>	
		0	Open/white (0=default)	proportional
		18	Deep red	proportional
		37	Green	proportional
		55	CTO	proportional
		73	Orange	proportional
		91	Lavender	proportional
		109	Congo blue	proportional
		128-129	Open/white	proportional
			<b>Positioning</b>	
		130-139	Deep red	step
		140-149	Green	step
		150-159	CTO	step
		160-169	Orange	step
		170-179	Lavender	step
		180-189	Congo blue	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random colour selection from fast to slow	proportional
<b>8</b>	<b>*</b>		<b>Colour wheel - fine positioning</b>	
		0 - 255	Fine positioning (0=default)	proportional
<b>9</b>	<b>8</b>		<b>Cyan</b>	

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Mode/channel		DMX Value	Function	Type of control
1	2			
		0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
<b>10</b>	<b>9</b>		<b>Magenta</b>	
		0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
<b>11</b>	<b>10</b>		<b>Yellow</b>	
		0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
<b>12</b>	<b>11</b>		<b>Virtual colour wheel</b>	
		0	No function (0=default)	step
		1-2	Filter 4 (Medium Bastard Amber)	step
		3-4	Filter 10 (Medium Yellow)	step
		5-6	Filter 19 (Fire)	step
		7-8	Filter 24 (Scarlet)	step
		9-10	Filter 58 (Lavender)	step
		11-12	Filter 68 (Sky Blue)	step
		13-14	Filter 71 (Tokyo Blue)	step
		15-16	Filter 79 (Just Blue)	step
		17-18	Filter 88 (Lime Green)	step
		19-20	Filter 90 (Dark Yellow Green)	step
		21-22	Filter 100 (Spring Yellow)	step
		23-24	Filter 101 (Yellow)	step
		25-26	Filter 102 (Light Amber)	step
		27-28	Filter 103 (Straw)	step
		29-30	Filter 104 (Deep Amber)	step
		31-32	Filter 105 (Orange)	step
		33-34	Filter 781 (Terry Red)	step
		35-36	Filter 111 (Dark Pink)	step
		37-38	Filter 115 (Peacock Blue)	step
		39-40	Filter 505 (Sally Green)	step
		41-42	Filter 117 (Steel Blue)	step
		43-44	Filter 118 (Light Blue)	step
		45-46	Filter 724 (Ocean Blue)	step
		47-48	Filter 725 (Old Steel Blue)	step
		49-50	Filter 121 (Filter Green)	step
		51-52	Filter 128 (Bright Pink)	step
		53-54	Filter 131 (Marine Blue)	step
		55-56	Filter 132 (Medium Blue)	step
		57-58	Filter 134 (Golden Amber)	step
		59-60	Filter 135 (Deep Golden Amber)	step
		61-62	Filter 136 (Pale Lavender)	step
		63-64	Filter 137 (Special Lavender)	step
		65-66	Filter 138 (Pale Green)	step
		67-68	Filter 139 (Primary Green)	step
		69-70	Filter 141 (Bright Blue)	step
		71-72	Filter 147 (Apricot)	step
		73-74	Filter 148 (Bright Rose)	step
		75-76	Filter 152 (Pale Gold)	step
		77-78	Filter 154 (Pale Rose)	step
		79-80	Filter 157 (Pink)	step
		81-82	Filter 158 (Deep Orange)	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		83-84	Filter 162 (Bastard Amber)	step
		85-86	Filter 164 (Flame Red)	step
		87-88	Filter 165 (Daylight Blue)	step
		89-90	Filter 169 (Lilac Tint)	step
		91-92	Filter 170 (Deep Lavender)	step
		93-94	Filter 172 (Lagoon Blue)	step
		95-96	Filter 179 (Chrome Orange)	step
		97-98	Filter 180 (Dark Lavender)	step
		99-100	Filter 181 (Congo Blue)	step
		101-102	Filter 197 (Alice Blue)	step
		103-104	Filter 201 (Full C.T. Blue)	step
		105-106	Filter 202 (Half C.T. Blue)	step
		107-108	Filter 203 (Quarter C.T. Blue)	step
		109-110	Filter 204 (Full C.T. Orange)	step
		111-112	Filter 205 (Half C.T. Orange)	step
		113-114	Filter 206 (Quarter C.T. Orange)	step
		115-116	Filter 247 (Filter Minus Green)	step
		117-118	Filter 248 (Half Minus Green)	step
		119-120	Filter 281 (Three Quarter C.T. Blue)	step
		121-122	Filter 285 (Three Quarter C.T. Orange)	step
		123-124	Filter 352 (Glacier Blue)	step
		125-126	Filter 353 (Lighter Blue)	step
		127-128	Filter 715 (Cabana Blue)	step
		129-130	Filter 778 (Millennium Gold)	step
		131-132	Filter 328 (Follies Pink)	step
		133-255	Reserved	
<b>13</b>	<b>12</b>		<b>Effect Speed</b>	
			<i>Speed of CMY &amp; rot. gobo &amp; static gobo selection</i>	
		0-255	Speed of CMY and rot.gobo/static gobo selection from max. to min. (0=default)	proportional proportional
<b>14</b>	<b>13</b>		<b>Colour wheel + CMY time</b>	
		0	Function is off (0=default)	step
		1 - 255	Time of Colour wheel +CMY movement (0.1sec-->25.5sec.)	proportional
<b>15</b>	<b>14</b>		<b>Stat. Gobo+Zoom+Focus+Frost+Iris+Prism time</b>	
		0	Function is off (0=default)	step
		1 - 255	Time of stat. Gobo, zoom, focus,iris and frost movement (0.1 sec-->25.5 sec.)	proportional
		1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
<b>16</b>	<b>15</b>		<b>Static gobo wheel</b>	
		0-7	Open/hole (0=default)	step
		9-17	Gobo 1	step
		18-26	Gobo 2	step
		27-35	Gobo 3	step
		36-44	Gobo 4	step
		45-53	Gobo 5	step
		54-62	Gobo 6	step
		63-71	Gobo 7	step
		72-80	Gobo 8	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		81-91	Gobo 9	step
			<b><i>Shaking gobos from slow to fast</i></b>	
		92-103	Gobo 1	proportional
		104-115	Gobo 2	proportional
		116-127	Gobo 3	proportional
		128-139	Gobo 4	proportional
		140-151	Gobo 5	proportional
		152-163	Gobo 6	proportional
		164-175	Gobo 7	proportional
		176-187	Gobo 8	proportional
		188-199	Gobo 9	proportional
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control	step
			<i>(Set microphone sensitivity in menu „Personality“)</i>	
		250 - 255	Auto random gobo selection from fast to slow	proportional
<b>17</b>	<b>16</b>		<b>Rotating gobo wheel</b>	
			<i>In the range of 0-59 DMX the gobo selection speed can be controlled by the Effect Speed channel.</i>	
			<b><i>Index - set indexing on channel 18/17</i></b>	
		0-3	Open/hole (0=default)	step
		4-7	Gobo 1	step
		8-11	Gobo 2	step
		12-15	Gobo 3	step
		16-19	Gobo 4	step
		20-23	Gobo 5	step
		24-27	Gobo 6	step
		28-31	Gobo 7	step
			<b><i>Rotation - set rotation on channel 18/17</i></b>	
		32-35	Gobo 1	step
		36-39	Gobo 2	step
		40-43	Gobo 3	step
		44-47	Gobo 4	step
		48-51	Gobo 5	step
		52-55	Gobo 6	step
		56-59	Gobo 7	step
			<b><i>Shaking gobos from slow to fast</i></b>	
			<b><i>Index - set indexing on channel 18/17</i></b>	
		60 - 69	Gobo 1	proportional
		70 - 79	Gobo 2	proportional
		80 - 89	Gobo 3	proportional
		90 - 99	Gobo 4	proportional
		100 - 109	Gobo 5	proportional
		110 - 119	Gobo 6	proportional
		120 - 129	Gobo 7	proportional
			<b><i>Shaking gobos from slow to fast</i></b>	
			<b><i>Rotation - set rotation on channel 18/17</i></b>	

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Mode/channel		DMX Value	Function	Type of control
1	2			
		130 - 139	Gobo 1	proportional
		140 - 149	Gobo 2	proportional
		150 - 159	Gobo 3	proportional
		160 - 169	Gobo 4	proportional
		170 - 179	Gobo 5	proportional
		180 - 189	Gobo 6	proportional
		190 - 199	Gobo 7	proportional
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random gobo selection from fast to slow	proportional
<b>18</b>	<b>17</b>		<b>Rot. Gobo indexing/rotation</b>	
			<i>Gobo indexing - set position on channel 17/16</i>	
		0 - 255	Gobo indexing	proportional
			<i>Gobo rotation - set position on channel 17/16</i>	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional
<b>19</b>	<b>*</b>		<b>Rot. Gobo indexing/rotation - fine</b>	
		0-255	Fine indexing/rotation (0=default)	proportional
<b>20</b>	<b>18</b>		<b>Prism</b>	
		0 - 19	Open position/hole (0=default)	step
		20 - 127	3-facet rotating prism	step
			Prism/gobo macros	
		128 - 135	Macro 1	step
		136 - 143	Macro 2	step
		144 - 151	Macro 3	step
		152 - 159	Macro 4	step
		160 - 167	Macro 5	step
		168 - 175	Macro 6	step
		176 - 183	Macro 7	step
		184 - 191	Macro 8	step
		192 - 199	Macro 9	step
		200 - 207	Macro 10	step
		208 - 215	Macro 11	step
		216 - 223	Macro 12	step
		224 - 231	Macro 13	step
		232 - 239	Macro 14	step
		240 - 247	Macro 15	step
		248 - 255	Macro 16	step
<b>21</b>	<b>19</b>		<b>Prism rotation</b>	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation (128= default)	step
		129-255	Backwards rotation from slow to fast	proportional

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Mode/channel		DMX Value	Function	Type of control
1	2			
<b>22</b>	<b>20</b>		<b>Frost</b>	
		0	Open (0=default)	step
		1 - 179	Frost from 0% to 100%	proportional
		180 - 189	100% frost	step
		190 - 211	Pulse closing from slow to fast	proportional
		212 - 233	Pulse opening from fast to slow	proportional
		234 - 255	Ramping from fast to slow	proportional
<b>23</b>	<b>21</b>		<b>Iris</b>	
		0	Open (0=default)	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step
			<b>Pulse effects with Iris blackout:</b>	
		192 - 219	Pulse opening from slow to fast	proportional
		220 - 247	Pulse closing from fast to slow	proportional
		248 - 249	Random pulse opening (fast)	step
		250 - 251	Random pulse opening (slow)	step
		252 - 253	Random pulse closing (fast)	step
		254 - 255	Random pulse closing (slow)	step
<b>24</b>	<b>*</b>		<b>Iris - fine</b>	
		0 - 255	Fine iris movement (0=default)	proportional
<b>25</b>	<b>22</b>		<b>Zoom</b>	
		0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
<b>26</b>	<b>*</b>		<b>Zoom - fine</b>	
		0-255	Fine zooming (0=default)	proportional
<b>27</b>	<b>23</b>		<b>Focus</b>	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
<b>28</b>	<b>*</b>		<b>Focus - fine</b>	
		0- 255	Fine focusing (0=default)	proportional
<b>29</b>	<b>24</b>		<b>Reserved</b>	
			Reserved for future functions	
<b>30</b>	<b>25</b>		<b>Shutter/ strobe</b>	
		0 - 31	Shutter closed	step
		32 - 63	Shutter open (32=default)	step
		64 - 95	Strobe-effect from slow to fast	proportional
		96 - 127	Shutter open	step
		128 - 143	Opening pulse in sequences from slow to fast	proportional
		144 - 159	Closing pulse in sequences from fast to slow	proportional
		160 - 191	Shutter open	proportional
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open	step
<b>31</b>	<b>26</b>		<b>Dimmer intensity</b>	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
<b>32</b>	<b>*</b>		<b>Dimmer intensity - fine</b>	
		0 - 255	Fine dimming (0=default)	proportional
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<b>Robin SilverScan - colours on Virtual Colour Wheel</b>				
<b>Colour name</b>	<b>Cyan (DMX)</b>	<b>Magenta (DMX)</b>	<b>Yellow (DMX)</b>	<b>Colour Wheel (DMX)</b>
Filter 4 (Medium Bastard Amber)	0	105	103	152
Filter 10 (Medium Yellow)	0	0	198	152
Filter 19 (Fire)	0	255	0	164
Filter 24 (Scarlet)	0	255	224	0
Filter 58 (Lavender)	19	171	105	172
Filter 68 (Sky Blue)	255	79	0	152
Filter 71 (Tokyo Blue)	255	0	0	181
Filter 79 (Just Blue)	255	61	130	172
Filter 88 (Lime Green)	48	0	192	0
Filter 90 (Dark Yellow Green)	255	38	224	0
Filter 100 (Spring Yellow)	32	117	204	0
Filter 101 (Yellow)	0	139	227	0
Filter 102 (Light Amber)	0	57	183	159
Filter 103 (Straw)	0	131	166	0
Filter 104 (Deep Amber)	0	162	229	0
Filter 105 (Orange)	0	191	255	0
Filter 781 (Terry Red)	0	255	235	0
Filter 111 (Dark Pink)	0	198	178	0
Filter 115 (Peacock Blue)	247	0	183	152
Filter 505 (Sally Green)	45	23	198	0
Filter 117 (Steel Blue)	105	6	132	0
Filter 118 (Light Blue)	230	63	152	0
Filter 724 (Ocean Blue)	212	0	153	156
Filter 725 (Old Steel Blue)	134	73	140	0
Filter 121 (Filter Green)	133	0	193	0
Filter 128 (Bright Pink)	0	255	118	153
Filter 131 (Marine Blue)	193	76	173	0
Filter 132 (Medium Blue)	255	32	62	150
Filter 134 (Golden Amber)	0	170	210	150
Filter 135 (Deep Golden Amber)	0	251	255	150
Filter 136 (Pale Lavender)	83	98	0	158
Filter 137 (Special Lavender)	145	117	0	158
Filter 138 (Pale Green)	54	72	173	0
Filter 139 (Primary Green)	255	180	255	0
Filter 141 (Bright Blue)	255	87	146	0
Filter 147 (Apricot)	0	178	205	0
Filter 148 (Bright Rose)	0	255	190	255
Filter 152 (Pale Gold)	0	92	101	157
Filter 154 (Pale Rose)	33	96	84	157
Filter 157 (Pink)	0	189	178	157
Filter 158 (Deep Orange)	0	198	255	157
Filter 162 (Bastard Amber)	0	86	98	157
Filter 164 (Flame Red)	0	255	243	157
Filter 165 (Daylight Blue)	219	0	111	156
Filter 169 (Lilac Tint)	81	63	0	156
Filter 170 (Deep Lavender)	120	142	19	150



<b>Colour name</b>	<b>Cyan (DMX)</b>	<b>Magenta (DMX)</b>	<b>Yellow (DMX)</b>	<b>Colour Wheel (DMX)</b>
Filter 172 (Lagoon Blue)	255	0	187	173
Filter 179 (Chrome Orange)	0	176	255	0
Filter 180 (Dark Lavender)	194	203	0	151
Filter 181 (Congo Blue)	0	0	155	182
Filter 197 (Alice Blue)	201	110	42	157
Filter 201 (Full C.T. Blue)	167	7	103	157
Filter 202 (Half C.T. Blue)	131	124	158	0
Filter 203 (Quarter C.T. Blue)	137	136	164	0
Filter 204 (Full C.T. Orange)	0	167	204	0
Filter 205 (Half C.T. Orange)	0	144	182	0
Filter 206 (Quarter C.T. Orange)	0	139	164	0
Filter 247 (Filter Minus Green)	33	167	165	0
Filter 248 (Half Minus Green)	26	144	153	0
Filter 281 (Three Quarter C.T. Blue)	106	95	127	0
Filter 285 (Three Quarter C.T. Orange)	0	94	150	152
Filter 352 (Glacier Blue)	223	0	130	152
Filter 353 (Lighter Blue)	186	0	155	0
Filter 715 (Cabana Blue)	254	195	0	155
Filter 778 (Millennium Gold)	0	216	255	0
Filter 328 (Follies Pink)	36	221	73	156