

DMX protocol

**Robin Footsie™1 Tunable White - DMX protocol**

Version: 1.0 Mode 1-Standard 16-bit

Mode/Total channels	DMX Value	Function	Type of control
<b>1/16</b>			
<b>1</b>		<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 10 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</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	
	20-59	Reserved	
	60-64	Dimmer curve - square law	step
	65-69	Dimmer curve - linear	step
	70-79	Reserved	
	80-84	Blue positional light On	step
	85-89	Blue positional light Off	step
	90-255	Reserved	
<b>2</b>		<b>LED frequency selection</b>	
		Factory display menu setting: 600Hz	
		<i>Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.</i>	
	0-4	PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	step
	5-9	300 Hz	step
	10-14	600 Hz (10=default)	step
	15-19	1200 Hz	step
	20-24	2400 Hz	step
	25-29	High	step
	30-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	
<b>3</b>		<b>LED frequency fine adjusting</b>	
		Factory display menu setting: 600Hz	
		<i>Select desired PWM output frequency of LEDs on the channel above.</i>	
	0-1	Selected LED Frequency	step
	2	LED Frequency (step -126)	step
	3	LED Frequency (step -125)	step
	4	LED Frequency (step -124)	step
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	125	LED Frequency (step -3)	step
	126	LED Frequency (step -2)	step
	127	LED Frequency (step -1)	step
	128	Selected LED Frequency (128=default)	step
	129	LED Frequency (step +1)	step
	130	LED Frequency (step +2)	step
	131	LED Frequency (step +3)	step
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	252	LED Frequency (step +124)	step
	253	LED Frequency (step +125)	step
	254	LED Frequency (step +126)	step
	255	Selected LED Frequency	step
<b>4</b>		<b>Virtual colour wheel -all pixels</b>	
	0	No function (0=default)	step
	1-2	White 3200K	step
	3-4	White 3800K	step
	5-6	White 4200K	step
	7-8	White 4600K	step
	9-10	White 5000K	step
	11-12	White 5600K	step
	13-14	White 6300K	step
	15-16	White 6500K	step
	17-255	Warm white --> Cool white	proportional
<b>5</b>		<b>Warm white (8 bit)* - all zones</b>	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
<b>6</b>		<b>Warm white (16bit)* - all zones</b>	
	0 - 255	Colour saturation control fine (255=default)	proportional
<b>7</b>		<b>Cool white (8 bit)* - all zones</b>	
	0 - 255	Colour saturation control coarse 0-100% (255=default)	proportional
<b>8</b>		<b>Cool white (16bit)*- all zones</b>	
	0 - 255	Colour saturation control fine (255=default)	proportional
<b>9</b>		<b>Blue positional light</b>	
	0 - 255	Blue positional light intensity 0-100% (255=default)	proportional
<b>10</b>		<b>Shutter/ strobe -all zones</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	step
	192 - 223	Random strobe-effect from slow to fast	proportional
	224 - 255	Shutter open	step
<b>11</b>		<b>Dimmer intensity (8 bit) - all zones</b>	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
<b>12</b>		<b>Dimmer intensity - fine (16 bit) - all zones</b>	
	0 - 255	Fine dimming (0=default)	proportional
<b>13</b>		<b>Warm white zone 1</b>	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
<b>14</b>		<b>Cool white zone 1</b>	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
<b>15</b>		<b>Warm white zone 2</b>	
	0-255	LEDs saturation control 0-100% (0=default)	proportional
<b>16</b>		<b>Cool white zone 2</b>	
	0-255	LEDs saturation control 0-100% (0=default)	proportional

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All Specifications subject to change without notice			