

DMX Protocol

Version 1.0.7

The Roadster Orbital Head System is patched by a DMX controller as an individual fixture on a DMX link and requires a 12-channel range.

	Function	Description	Value dec.	Default	Value %	Default
1	Mirror 1 Coarse	Moves inner mirror from 0°–270° (Maps to Pan)	0-	32768	0-100	50
2	Mirror 1 Fine		65535			
3	Mirror 2 Coarse	Moves outer mirror from 0°–360° (Maps to Tilt)	0-	32768	0-100	50
4	Mirror 2 Fine		65535			
5	Focus Coarse	16-bit adjustment	0-	32768	0-100	50
6	Focus Fine		65535			
7	Zoom Coarse	16-bit adjustment	0-	32768	0-100	50
8	Zoom Fine		65535			
9	Shutter	Closed	0-23		0-9	
		Open	232-255		91-100	
10	MSpeed (See Appendix B for conversion tables)	Disable	0	0	0	0
		Set from Longest (253.7 sec to Shortest (0.15 sec)	4-255		1-100	
11	Control Function	The Control channel should not be crossfaded. No shutter channel requirement.				
		Safe (normal operation)	0-9	0	0-4	0
		Pan & Tilt Mspeed Off	10-19		4-7	
		Set Shutter to 0 to access the following commands				
		Display Off (send 20 packets)	20-28	0	8-11	0
		Display Dim (send 20 packets)	30-38		12-15	
		Display Bright (send 20 packets)	40-48		16-19	
		Home (send 20 packets)	60-68		24-27	
		Home Lens (send 20 packets)	70-78		27-31	
		Lamp On (send 20 packets)	80-88		31-35	
		Lamp Off (send 20 packets)	90-98		35-38	
		LDM on (send 20 packets)	100-105		39-41	
		Shutdown (send 80 packets)	120-130		47-51	
		Reserved for future use	131-140		51-55	
		Live Commands - Shutter does not need to be set to 0				
		Lens horizontal offset right	141-150	0	55-59	0
		Lens horizontal offset stop	151-160		59-63	
		Lens horizontal offset left	161-170		63-67	
		Lens vertical offset up	171-180		67-71	
		Lens vertical offset stop	181-190		71-75	
Lens vertical offset down	191-200	75-78				
Reserved for future use	201-255	79-100				
12	Control	Reserved for future use	0-255		0-100	

