

Motion Engine Serial Command Set																								
Version: 4	Pkt Code	Data 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Program Control	2	<command>																						
NOOP		0																						
Start		1																						
Pause		2																						
Stop		3																						
Camera Enable		4																						
Camera Disable		5																						
Move Motor (Simple)		6	0,1 (Dir)	Steps																				
Send Motor Home		7																						
Expose Now		8	Exposure mS																					
Motor Sleep		9	0,1																					
Motor Max Step Rate		10	Steps/Second																					
Motor Max Step Speed		11	Steps/Second																					
NOOP		12																						
NOOP		13																						
NOOP		14																						
Debug LED		15	0,1																					
Stop Motor Now		16																						
MicroStep Level		17	1, 2, 4, 8, 16																					
Timing Master		18	0,1																					
Move Motor (Complex)		19	0,1 (Dir)	Steps (Distance)				31 (Pad)	Total Travel Time mS				31 (Pad)	Accel Time mS			31 (Pad)	Decel Time mS						
Plan Travel		20	0,1 (Dir)	0,1 (Type)	31 (Pad)	Steps (Distance)				31 (Pad)	Total Travel (interval or mS)	31 (Pad)	Accel (interval or mS)			31 (Pad)	Decel (interval or mS)							
Clear Planned Travel		21																						
Maximum Run Time		22	Maximum Run Time (mS)																					
Status Request		100	<status type>	<returns>																				
- Firmware Version			1	Byte																				
- Run Status			2	Byte																				
- Run Time mS			3	ULong																				
- Camera Enabled			4	Byte																				
- Shot Counter			5	ULong																				
- Interval Tm			6	ULong																				
- Exposure Tm			7	ULong																				
- Currently Exposing?			8	Byte																				
- Motor Enabled			9	Byte																				
- Motor Dir			10	Byte																				
- Motor Steps Moved			11	ULong																				
- Motor Distance from Home			12	Long																				
- NOOP			13																					
- Motor Max Travel Steps			14	ULong																				
- NOOP			15																					
- Motor Backlash			16	Byte																				
- Motor Steps ea Interval			17	UInt																				
- NOOP			18																					
- NOOP			19																					
- NOOP			20																					
- NOOP			21																					
- Timing Master Value			22	Byte																				
Program Data Set	3	<command>	<sub com>																					
Camera Data		1																						
- Interval			1	Interval mS																				
- Exposure Tm			2	Exposure mS																				
- Focus Tm			3	Focus mS																				
- Max Shots			4	Count																				
- Exposure Delay			5	Delay mS																				
- Focus w Shutter			6	0, 1																				
- Repeat Cycles			7	Count																				

[illegible]