5-axis Camera Position Control System Functions

Setting parameters

Function	Command Character	Input Range
Report status	R	N/A
Set microstepping mode	m	2, 4, 8, 16
Pan degrees	p	float
Tilt degrees	t	float
Slider millimeters	x	float
Focus degrees	f	float
Zoom degrees	y	float
Set pan speed (deg/s)	s	float
Set tilt speed (deg/s)	S	float
Set slider speed (mm/s)	X	float
Pan acceleration increment delay (µs)	q	0 – 32676
Tilt acceleration increment delay (µs)	Q	0 – 32676
Slider acceleration increment delay (µs)	w	0 – 32676
Scale the speed of all keyframed movements	W	float
Invert pan direction	i	bool
Invert tilt direction	I	bool
Invert slider direction	j	bool
Invert focus direction	F	bool
Invert zoom direction	Y	bool
Enable stepper motors	e	N / A
Set pan degrees offset	o	float
Set tilt degrees offset	O	float
Set homing mode (0: no homing, 1: Slider, 2: Pan & Tilt, 3: All axes)	H	0-3
Auto home all axes	A	N / A
Save settings to FlashStorage	U	N / A

Filming Functions

Function	Command Character	Input Range
Add keyframe position	#	N / A
Execute moves	;	1-32767
Move forward in keyframe array	>	N / A
Move backward in keyframe array	<	N / A
Jump to start of array	[	N / A
Jump to end of array	]	N / A
Edit current keyframe with current position	E	N / A
Add delay in keyframes (in ms)	d	0 – 32676
Edit delay at current position	D	0 - 32676
Clear all keyframe positions	C	N / A
Orbit point between 2 keyframes	@	0 – 32676
Calculate intercept of the first 2 keyframes	T	N / A