

PTZOptics HTTP-CGI Control Sheet

Control Function	Command	Variable	Values	MID 2019-02-19 Comments	
Pan & Tilt	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[pan speed]&[tilt speed]	[camera ip]	*cameras current IP		
		[action]	up	moves camera 'up'	
			down	moves camera 'down'	
			left	moves camera 'left'	
			right	moves camera 'right'	
			leftup	moves camera 'left' & 'up'	
			rightup	moves camera 'right' & 'up'	
			leftdown	moves camera 'left' & 'down'	
			rightdown	moves camera 'right' & 'down'	
			ptzstop	tells camera to 'stop' moving	
			[pan speed]	1	slowest 'pan' speed
				...	ranges from 1 - 24
				24	fastest 'pan' speed
			[tilt speed]	1	slowest 'tilt' speed
		...	ranges from 1 - 20		
		20	fastest 'tilt' speed		
Zoom	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[zoom speed]	[camera ip]	*cameras current IP		
		[action]	zoomin	zooms camera in	
			zoomout	zooms camera out	
			zoomstop	stops zooming	
			[zoom speed]	1	slowest 'zoom' speed
		...	ranges from 1 - 7		
		7	fastest 'zoom' speed		
Focus	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[focus speed]	[camera ip]	*cameras current IP		
		[action]	focusin	focuses camera in	
			focusout	focuses camera out	
			focusstop	stops focusing	
			[focus speed]	1	slowest 'focus' speed
		...	ranges from 1 - 7		
		7	fastest 'focus' speed		
Focus Lock	http://[camera ip]/cgi-bin/param.cgi?ptzcmd&[action]_mfocus	[camera ip]	*cameras current IP		
		[action]	lock	locks focus state	
			unlock	unlocks focus state	
Home Position	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&home	[camera ip]	*cameras current IP	Moves camera to HOME	
Preset	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[position number]	[camera ip]	*cameras current IP		
		[action]	posset	position 'set'	
			poscall	position 'call'	
			[position number]	0	beginning of range 1
				...	range 1 from 0-89
				89	end of range 1
				100	beginning of range 2
				...	range 2 from 100-254
		254	end of range 2		
Direct Position Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[mode]&[pan speed]&[tilt speed]&[pan position]&[tilt position]	[camera ip]	*cameras current IP		
		[mode]	abs	Absolute Positioning	
			rel	Relative Positioning	
			[pan speed]	1	slowest 'pan' speed
				...	ranges from 1 - 24
				24	fastest 'pan' speed
			[tilt speed]	1	slowest 'tilt' speed
				...	ranges from 1 - 20
				20	fastest 'tilt' speed
			[pan position]	0000 or FFFF	home position
				0001	first step pan right
				...	range from 0000 to 0990
				0990	last step pan right
				FFFE	first step pan left
				...	range from FFFF to F670
				F670	last step pan left
	[tilt position]	0000 or FFFF	Home Position		
		0001	first step tilt up		
		...	range from 0000 to 0510		
		0510	last step tilt up		
		FFFE	first step tilt down		
		...	range from FFFF to FE51		
		FE51	last step tilt down		

Navigation					
Function	Command	Variable	Values	Comments	
OSD Access	http://[camera ip]/cgi-bin/param.cgi?navigate_mode&[mode]	[camera ip]	*cameras current IP		
		[mode]	OSD	Calls OSD Menu	
			PTZ	P/T/Z Control Mode	
OSD Menu Navigation	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]	[camera ip]	*cameras current IP		
			up	moves menu 'up'	
			down	moves menu 'down'	
			enter	Selects an OSD option	
			return	Returns to previous menu	
Image Adjustments					
Function	Command	Variable	Values	Comments	
Image Settings	http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[level]	[camera ip]	*cameras current IP		
			[mode]	bright	adjust brightness
				saturation	adjust saturation
				contrast	adjust contrast
				sharpness	adjust sharpness
				hue	adjust hue
			[level]	0	beginning of range
	...	ranges from 0 -14			
	14	end of range			
Image Orientation	http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[state]	[camera ip]	*cameras current IP		
			[mode]	flip	flipped image adjustments
				mirror	mirrored image adjustments
			[state]	1	flip / mirror
		0	default		
Default Image Settings	http://[camera ip]/cgi-bin/param.cgi?get_image_default_conf	[camera ip]	*cameras current IP	Defaults all image settings above	
JPEG Snapshot					
Function	Command	Variable	Values	Comments	
Take Snapshot	http://[camera ip]/snapshot.jpg	[camera ip]	*cameras current IP	Takes a JPEG snapshot	
Change Resolution	http://[camera ip]/cgi-bin/snapshot.cgi?post_snapshot_conf&resolution=[size]	[camera ip]	*cameras current IP		
			[size]	1920x1080	Sets JPEG resolution to 1920x1080
				960x600	Sets JPEG resolution to 960x600
			480x300	Sets JPEG resolution to 480x300	
Inquiries					
Function	Command	Variable	Values	Comments	
Video	http://[camera ip]/cgi-bin/param.cgi?get_media_video	[camera ip]	*cameras current IP	Network Video Configuration	
Audio	http://[camera ip]/cgi-bin/param.cgi?get_media_audio	[camera ip]	*cameras current IP	Network Audio Configuration	
Network	http://[camera ip]/cgi-bin/param.cgi?get_network_conf	[camera ip]	*cameras current IP	Network Configuration	
Information	http://[camera ip]/cgi-bin/param.cgi?get_device_conf	[camera ip]	*cameras current IP	Camera Information	
Serial Number	http://[camera ip]/cgi-bin/param.cgi?get_serial_number	[camera ip]	*cameras current IP	Serial Number *Not always accurate	