

PTZOptics HTTP-CGI Control Sheet

Control				MID 2020-01-15	
Function	Command	Variable	Values	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 (HEX)	
	0990			last step pan right	
	FFFE			first step pan left	
	...			range from FFFF to F670 (HEX)	
	F670			last step pan left	
[tilt position]	0000 or FFFF			Home Position	
	0001			first step tilt up	
	...	range from 0000 to 0510 (HEX)			
	0510	last step tilt up			
	FFFE	first step tilt down			
	...	range from FFFF to FE51 (HEX)			
	FE51	last step tilt down			
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[camera ip]	*cameras current IP		
		[zoom speed]	0	slowest zoom speed	
			...	range from 0 - 7	
			7	fastest zoom speed	

		[zoom position]	0000	Full Wide
			...	range from 0 - 4000 (HEX)
			4000	Full Tele
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
OSD Menu Navigation	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]		PTZ	P/T/Z Control Mode
			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
Photobooth Pictures				
Function	Command	Variable	Values	Comments
Take Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip]	*cameras current IP	
		[delay]	1	shortest delay
			...	delay in seconds 1 - 9
			9	longest delay
Download Pictures	http://[camera ip]/photo[num].jpg	[num]	1	
			...	
			4	
Photobooth Videos				
Function	Command	Variable	Values	Comments
Take Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length]	[camera ip]	*cameras current IP	
		[delay]	1	shortest delay
			...	delay in seconds 1 - 9
			9	longest delay
		[length]	1	shortest length
		...	length in seconds 1 - 10	
			10	longest length
Get Video	http://[camera ip]/video[num].mp4	[num]	1	
			...	
			4	
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