

PTZOptics HTTP-CGI Control Sheet

PTZOptics HTTP-CGI Control Sheet				
Control 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
PT Reset	http://[camera ip]/cgi-bin/param.cgi?pan_tiltdrive_reset	[camera ip]	*cameras current IP	Performs pan / tilt reset "dance"
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]
[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				
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]	[camera ip]	PTZ	P/T/Z Control Mode	
			*cameras current IP		
			up	moves menu selection 'up'	
			down	moves menu selection 'down'	
			left	Adjusts OSD option left	
			right	Adjusts OSD option right	
	http://[camera ip]/cgi-bin/param.cgi?navigate_mode&[mode]	[camera ip] [mode]	*cameras current IP CONFIRM OSD_BACK	Selects an OSD option 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] [mode]	*cameras current IP		
			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] [mode]	*cameras current IP		
			flip	flipped image adjustments	
			mirror	mirrored image adjustments	
			[state]	1 0	flip / mirror 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	
Exposure Settings	http://[camera ip]/cgi-bin/param.cgi?post_image_value&aemode&[mode]	[camera ip] [mode]	*cameras current IP		
			auto	set camera to auto exposure	
			manual	set camera to manual exposure	
			shutter	set camera to sae exposure	
			iris	set camera to aae exposure	
			bright	set camera to bright exposure	
White Balance Settings	http://[camera ip]/cgi-bin/param.cgi?post_image_value&wbmode&[mode]	[camera ip] [mode]	*cameras current IP		
			auto	set camera to auto white balance	
			indoor	set camera to indoor white balance	
			outdoor	set camera to outdoor white balance	
			onepush	set camera to onepush white balance	
			manual	set camera to manual white balance	
			var	set camera to var white balance	
			trigger	calculate white balance while in onepush	
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] [size]	*cameras current IP		
			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] [delay]	*cameras current IP		
			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] [delay]	*cameras current IP		
			1	shortest delay	
			...	delay in seconds 1 - 9	
			9	longest delay	
			[length]	1	shortest length
				...	length in seconds 1 - 10
		10	longest length		
Download 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	

Note: The Action Values are case sensitive and may not execute if sent incorrectly.