

PTZOptics HTTP-CGI Control Sheet

Control Function	Command	Variable	Values	MID 2020-08-10
Pan & Tilt	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[pan speed]&[tilt speed]	[camera ip]	*cameras current IP	
		[action]	UP DOWN LEFT RIGHT LEFTUP RIGHTUP LEFTDOWN RIGHTDOWN PTZSTOP	moves camera 'up' moves camera 'down' moves camera 'left' moves camera 'right' moves camera 'left' & 'up' moves camera 'right' & 'up' moves camera 'left' & 'down' moves camera 'right' & 'down' tells camera to 'stop' moving
		[pan speed]	1 ... 24	slowest 'pan' speed ranges from 1 - 24 fastest 'pan' speed
		[tilt speed]	1 ... 20	slowest 'tilt' speed ranges from 1 - 20 fastest 'tilt' speed
Zoom	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[zoom speed]	[camera ip]	*cameras current IP	
		[action]	ZOOMIN ZOOMOUT ZOOMSTOP	zooms camera in zooms camera out stops zooming
		[zoom speed]	1 ... 7	slowest 'zoom' speed ranges from 1 - 7 fastest 'zoom' speed
Focus	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[focus speed]	[camera ip]	*cameras current IP	
		[action]	FOCUSIN FOCUSOUT FOCUSSTOP	focuses camera in focuses camera out stops focusing
		[focus speed]	1 ... 7	slowest 'focus' speed ranges from 1 - 7 fastest 'focus' speed
Focus Lock	http://[camera ip]/cgi-bin/param.cgi?ptzcmd&[action]_mfocus	[camera ip]	*cameras current IP	
		[action]	LOCK UNLOCK	locks focus state 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 POSCALL	position 'set' position 'call'
		[position number]	0 ... 89 100 ... 254	beginning of range 1 range 1 from 0-89 end of range 1 beginning of range 2 range 2 from 100-254 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 REL	Absolute Positioning Relative Positioning
		[pan speed]	1 ... 24	slowest 'pan' speed ranges from 1 - 24 fastest 'pan' speed
		[tilt speed]	1 ... 20	slowest 'tilt' speed ranges from 1 - 20 fastest 'tilt' speed
		[pan position]	0000 or FFFF 0001 ... 0990 FFFE ... F670	home position first step pan right range from 0000 to 0990 (HEX) last step pan right first step pan left range from FFFF to F670 (HEX) last step pan left
		[tilt position]	0000 or FFFF 0001 ... 0510 FFFE ... FE51	Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX) 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 ... 7	slowest zoom speed range from 0 - 7 fastest zoom speed
		[zoom position]	0000 ... 4000	Full Wide range from 0 - 4000 (HEX) 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	
			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 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]	*cameras current IP		
		[mode]	CONFIRM	Selects an OSD option	
			OSD_BACK	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	
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	