

HTTP_CGI_Command support table
V001

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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 left	moves camera 'down' moves camera 'left'
			right leftup	moves camera 'right' moves camera 'left' & 'up'
			rightup leftdown	moves camera 'right' & 'up' moves camera 'left' & 'down'
			rightdown ptzstop	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	zooms camera in
			zoomout zoomstop	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	focuses camera in
			focusout focusstop	focuses camera out stops focusing
		[focus speed]	1 ... 7	slowest 'focus' speed ranges from 1 - 7 fastest 'focus' speed
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	0-254	
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 ... 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	home position
			0001 ...	first step pan right range from 0001 to 0990 (HEX)
			0990 FFFF ...	last step pan right first step pan left range from FFFF to F670 (HEX)

			F670	last step pan left
		[tilt position]	0000 0001 ...	Home Position first step tilt up range from 0001 to 0510 (HEX)
			0510 FFFF	last step tilt up first step tilt down
			... FE51	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] [zoom speed]	*cameras current IP 0 ... 7	slowest zoom speed range from 0 - 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] [mode]	*cameras current IP OSD	Calls OSD Menu
OSD Menu Navigation	http://[camera ip]/cgi-bin/plzctrl.cgi?ptzcmd&[action]	[camera ip]	PTZ *cameras current IP	P/T/Z Control Mode
			up down	moves menu selection 'up' moves menu selection 'down'
			left right	Adjusts OSD option left Adjusts OSD option right
	http://[camera ip]/cgi-bin/param.cgi?navigate_mode&[mode]	[camera ip] [mode]	*cameras current IP 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] [mode]	*cameras current IP cambright	Adjust Bright under exposure mode
	bright level 0-17 saturation=0 is 60% saturation=14 is 200%		saturation contrast	adjust saturation adjust contrast
	sharpness level 0-11		sharpness hue	adjust sharpness adjust hue
	gain=0 is 0dB gain=15 is 45dB		gain shutter	
	shutter=1 is 1/25 or 1/30 shutter=17 is 1/10000		drc	
	drc level 0-8		rgaintuning	
	rgaintuning level 0-20		meteringmode aemode	
	meteringmode=0 is Average,1 is Center,2 is Smart,3 is Top		expcomp_mode expcomp_level	
	aemode=0 is auto,3 is manual,10 is SAE,11 is AAE,13 is Bright		backlight	
	expcomp_mode=2 is on, 3 is off		antiflicker	
	backlight=2 is on, 3 is off		wbmode	
	antiflicker=0 is off,1 is 50Hz,2 is 60 Hz		bgaintuning	
	wbmode=0 is Auto,1 is Indoor,2 is Outdoor,3 is OnePush, 5 is Manual		luminance mirror	Adjust the image bright
	bgaintuning level 0-20		flip	
	mirror=1 is on, 0 is off		bwmode	
	flip=1 is on, 0 is off		style	
	bwmode=1 is on, 0 is off		gainLimit	
	Style=0 is Default,1 is Norm,3 is Bright,7 is PC		iris	
	gainLimit=1 is 3dB gainLimit=15 is 45dB		noise3d	
	iris=0 is Close iris=12 is F1.8		rgain bgain	
noise3d=0 is off,1 is 1 8 is 8,9 is Auto		[level]	0 ... 14	beginning of range ranges from 0 - 14 end of range
rgain level 0-255		[camera ip]	*cameras current IP	
bgain level 0-255		[mode]	flip mirror	flipped image adjustments mirrored image adjustments
	http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[state]	[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
JPEG Snapshot				
Function	Command	Variable	Values	Comments
Take Snapshot	http://[camera ip]/snapshot.jpg	[camera ip]	*cameras current IP	Takes a JPEG snapshot
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 ... 9	shortest delay delay in seconds 1 - 9 longest delay
			1	
			4	
Download Pictures	http://[camera ip]/photo[num].jpg	[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