

PTZOptics Control over TCP/UDP

PTZOptics currently supports various PTZ control methods, including RS232, RS485, IR remote control, web interface, TCP /UDP protocol and HTTP CGI.

PTZOPTICS uses a built-in TCP server, port number is 5678, and a built in UDP Server, port number 1259. When a client and the server establish a connection, the client sends a PTZ command to server and the server will parse and execute the PTZ commands.

PTZ command format for RS232, 485, TCP / UDP control is based on the VISCA protocol.

Control Command Set

Command	Function	Command Packet	Note
CAM_Zoom	Stop	8x 01 04 07 00 FF	
	Tele(Standard)	8x 01 04 07 02 FF	
	Wide(Standard)	8x 01 04 07 03 FF	
	Tele(Variable)	8x 01 04 07 2p FF	p = 0(low) - 7(high)
	Wide(Variable)	8x 01 04 07 3p FF	
	Direct	8x 01 04 47 0p 0q 0r 0s FF	pqrs: Zoom Position
CAM_Focus	Stop	8x 01 04 08 00 FF	
	Far(Standard)	8x 01 04 08 02 FF	
	Near(Standard)	8x 01 04 08 03 FF	
	Far(Variable)	8x 01 04 08 2p FF	p = 0(low) - 7(high)
	Near(Variable)	8x 01 04 08 3p FF	
	Auto Focus	8x 01 04 38 02 FF	
	Manual Focus	8x 01 04 38 03 FF	AF On/Off
	Auto/Manual	8x 01 04 38 10 FF	
Direct	8x 01 04 48 0p 0q 0r 0s FF	pqrs: Focus Position	
Pan_tiltDrive	Up	8x 01 06 01 VV WW 03 01 FF	
	Down	8x 01 06 01 VV WW 03 02 FF	
	Left	8x 01 06 01 VV WW 01 03 FF	
	Right	8x 01 06 01 VV WW 02 03 FF	
	Upleft	8x 01 06 01 VV WW 01 01 FF	VV: Pan speed 0x01 (low speed) to 0x18 (high speed)
	Upright	8x 01 06 01 VV WW 02 01 FF	
	DownLeft	8x 01 06 01 VV WW 01 02 FF	WW: Tilt speed 0x01 (low speed) to 0x14 (high speed)
	DownRight	8x 01 06 01 VV WW 02 02 FF	
	Stop	8x 01 06 01 VV WW 03 03 FF	YYYY: Pan Position ZZZZ: Tilt Position
	AbsolutePosition	8x 01 06 02 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
	RelativePosition	8x 01 06 03 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
	Home	8x 01 06 04 FF	
CAM_Memory	Reset	8x 01 04 3F 00 pp FF	
	Set	8x 01 04 3F 01 pp FF	pp: Memory Number(=0 to 254)
	Recall	8x 01 04 3F 02 pp FF	

Enquire Command Set

Inquiry Command List			
Command	Command	Inquiry Packet	Comme
CAM_ZoomPosI	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: Zoom Position
CAM_FocusPosI	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: Focus Position
Pan-tiltPosInq	8x 09 06 12 FF	y0 50 0w 0w 0w 0w 0z 0z 0z 0z FF	www: Pan Position zzzz: Tilt Position

Note:

The [x] in the above table is the camera address, [y] = [x + 8]

PTZOptics Control over HTTP CGI

Pan and Tilt control URL format as below:

http://[Camera IP]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[pan speed]&[tilt speed]

More descriptions:

[Camera IP]: PTZOPTICS IP address;

[action] including: up, down, left, right, ptzstop;

[pan speed] : 1(low speed) – 24(high speed);

[tilt speed]: 1(low speed) – 20(high speed).

Zoom control URLformat as below:

http://[Camera IP]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[zoom speed]

More descriptions:

[Camera IP]: PTZOPTICS IP address;

[action] including: zoomin, zoomout, zoomstop;

[zoom speed]: 0(low speed) – 7(high speed)。

Focus control URLformat as below:

http://[Camera IP]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[focus speed]

More descriptions:

[Camera IP]: PTZOPTICS IP address;

[action] including: focusin, focusout, focusstop;

[focus speed]: 0(low speed) – 7(high speed)

Preset Position control URL format as below:

http://[Camera IP]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[position number]

More descriptions:

[Camera IP]: PTZOPTICS IP

address; [action] including:

posset, poscall; [position

number]: 0-89, 100-254