

HTTP_CGI_Command support table
V001

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THIS DOCUMENT DESCRIBES APPLICATION PROGRAMMING INTERFACE TO CONTROL JVC PTZ cameras VIA NETWORK, AND IT SHALL NOT BE USED FOR ANY OTHER PURPOSE.

[illegible]

| 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?plzcmd&[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] | *cameras current IP cambright | Adjust Bright under exposure mode |
| | bright level 0-17 saturation=0 is 60% saturation=14 is 200% | [mode] | | |
| | | | 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 level 0-8 | | drc | |
| | rgaintuning level 0-20 | | rgaintuning | |
| | meteringmode=0 is Average,1 is Center,2 is Smart,3 is Top | | meteringmode | |
| | aemode=0 is auto,3 is manual,10 is SAE,11 is AAE,13 is Bright | | aemode | |
| | expcomp_mode=2 is on, 3 is off | | expcomp_mode expcomp_level | |
| | backlight=2 is on, 3 is off | | backlight | |
| | antiflicker=0 is off,1 is 50Hz,2 is 60 Hz | | antiflicker | |
| | wbmode=0 is Auto,1 is Indoor,2 is Outdoor,-3 is OnePush, 5 is Manual | | wbmode | |
| | bgaintuning level 0-20 | | bgaintuning | |
| Image Orientation | mirror=1 is on, 0 is off | | luminance mirror | Adjust the image bright |
| | flip=1 is on, 0 is off | | flip | |
| | bwmode=1 is on, 0 is off | | bwmode | |
| | Style=0 is Default,1 is Norm,3 is Bright,7 is PC | | style | |
| | gainLimit=1 is 3dB gainLimit=15 is 45dB | | gainLimit | |
| | iris=0 is Close iris=12 is F1.8 | | iris | |
| | noise3d=0 is off,1 is 1 8 is 8,9 is Auto | | noise3d | |
| | rgain level 0-255 | | rgain | |
| | bgain level 0-255 | | bgain | |
| | | [level] | 0 ... 14 | beginning of range ranges from 0 - 14 end of range |
| | http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[state] | [camera ip] | *cameras current IP | |
| | | [mode] | flip mirror | flipped image adjustments 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 |
| 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] | *cameras current IP | |
| | | [delay] | 1 ... 9 | shortest delay delay in seconds 1 - 9 longest delay |
| 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 |