

## **PTZOptics**

### **Autofocus Re-Calibration Steps**

*Generated on 2018-4-2 by Matthew Davis*

*Revised on 2019-02-13 by Matthew Davis*

There are two (2) methods that can be utilized to re-calibrate the Autofocus capabilities of your PTZOptics camera(s).

1. VISCA over IP command (*Old firmware is not compatible*)
2. Hardwired VISCA command

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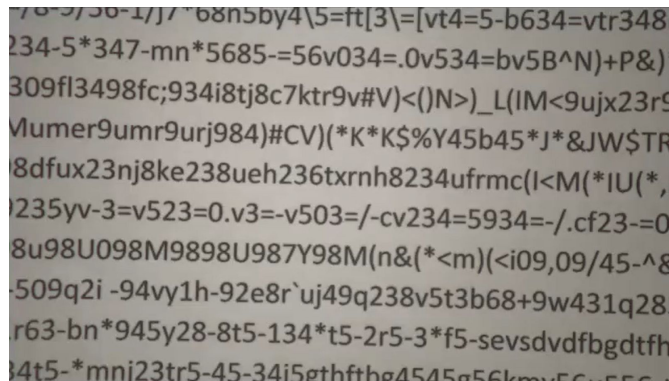
Revised on 2019-02-13 by Matthew Davis

### VISCA over IP Autofocus Re-Calibration

Pre-requisites:

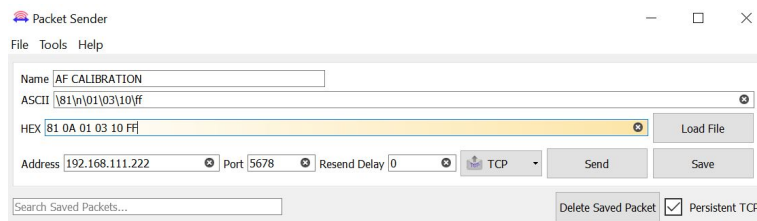
PTZOptics camera available via an IP address from your PC  
[VLC](#) / Viewing Monitor (To see status)  
[Packet Sender](#) (Or any TCP command utility)  
[PTZOptics Calibration Sheet](#) printed out  
Measuring Device (Tape Measure, Yard Stick, Ruler, etc...)

1. Find a level location where you can tape the "PTZOptics Calibration Sheet" to the wall and place the camera lens at 1 meter / 39.4" from the sheet
2. Plug the camera into the network / power and turn on
3. Using VLC, or a monitor connected to the HDMI or SDI output of the camera, ZOOM fully into the "PTZOptics Calibration Sheet"



(Note if your camera is unable to focus and reproduce the image shown above that's not a problem just make sure you're fully zoomed in)

4. Using Packet Sender enter the following details:
  - a. Name: AF Calibration
  - b. HEX: 81 0A 01 03 12 FF
  - c. Address: <cameras ip address>
  - d. Port: 5678
  - e. Check "Persistent TCP" box



- f. 
- g. Click "Send"

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5. You will now in your monitor or VLC session watch the camera take steps for each Zoom level and calibrate the focus accordingly.
  - a. The entire process SHOULD take less than 5 minutes
6. When the program is near finished running you will see it arrive back at the original full zoom and it will allow everything to go blurry followed by clearing up.
7. You have now successfully re-calibrated the autofocus of your PTZOptics Camera.

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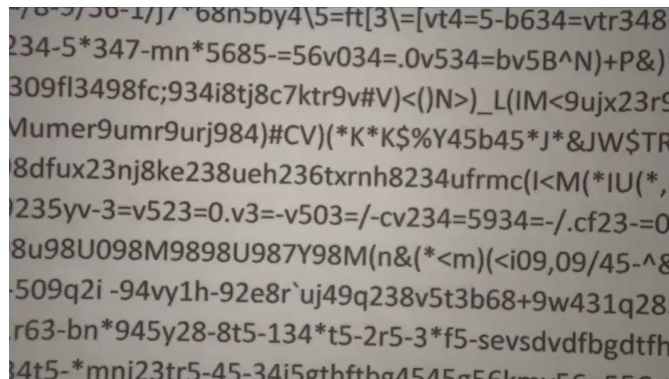
Revised on 2019-02-13 by Matthew Davis

#### Hardwired VISCA Autofocus Re-Calibration

Pre-requisites:

- PTZOptics camera with VISCA ID set to 1
- Viewing Monitor (HDMI or SDI to see status)
- [Hercules](#) (Or any Serial HEX command utility)
- [PTZOptics Calibration Sheet](#) printed out
- Measuring Device (Tape Measure, Yard Stick, Ruler, etc...)

1. Find a level location where you can tape the "PTZOptics Calibration Sheet" to the wall and place the camera lens at 1 meter / 39.4" from the sheet
2. Plug the camera into the network / power and connect the RS232 In to an available COMM port on your PC and turn on the camera
3. Using a monitor connected to the HDMI or SDI output of the camera, ZOOM fully into the "PTZOptics Calibration Sheet"



(Note if your camera is unable to focus and reproduce the image shown above that's not a problem just make sure you're fully zoomed in)

4. Using Hercules enter the following details:
  - a. Move to the "Serial" tab
  - b. In the "Serial" configuration use the following details / notes
    - i. Name: <COMM Port Camera is connected to on PC>
    - ii. Baud: 9600 (default)
    - iii. Databits: 8 (default)
    - iv. Stopbit: 1 (default)
    - v. Handshake: Off
    - vi. Mode: Free
  - c. Once everything is set and connected click the "Open" button

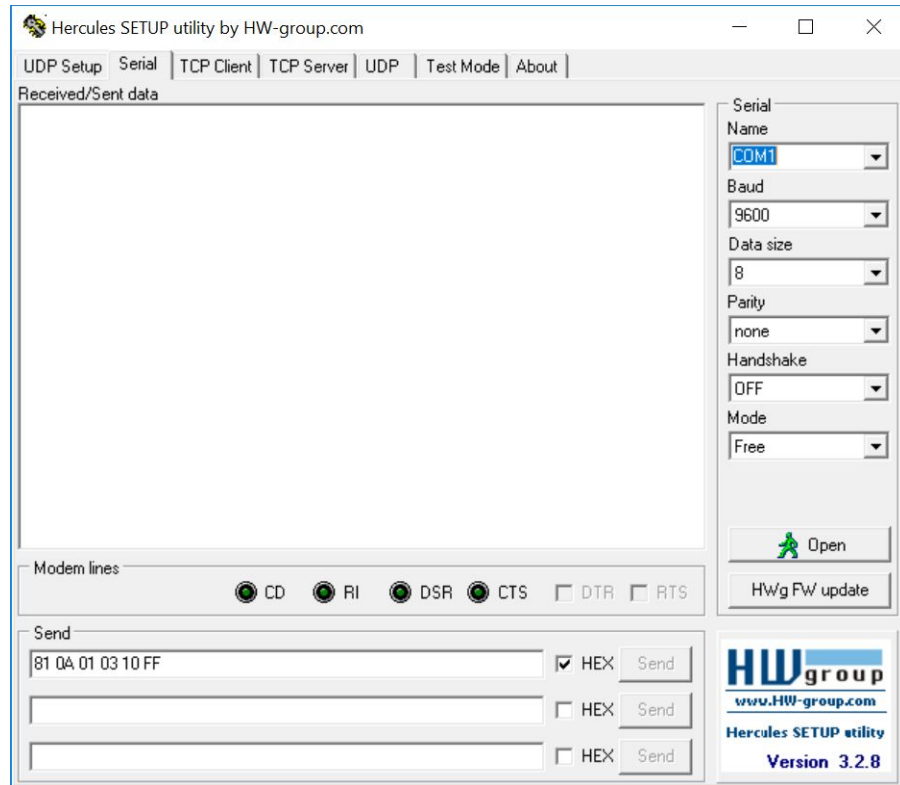
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- i. In the "Send" section enter the following command in the first text box
  1. HEX Command 81 0A 01 03 12 FF
  2. Note that this command requires your cameras VISCA ID to be set to 1
    - a. (This is available in the On Screen Display menu)
  3. Click the "HEX" check box
  4. Click "Send"



5. You will now in your monitor be able to watch the camera take steps for each Zoom level and calibrate the focus accordingly.
  - a. The entire process SHOULD take less than 5 minutes
6. When the program is near finished running you will see it arrive back at the original full zoom and it will allow everything to go blurry followed by clearing up.
7. You have now successfully re-calibrated the autofocus of your PTZOptics Camera.