

## Description:

Find the x0, y0 Position on your Parts. Jog over a certain position (like corner of your Part where x0, y0 should be) and Click “Move to Spindle Position”. The Spindle then moves the x, y Offset and is placing the spindle over the position where the Camera was before. The Assumption is that the Camera is mounted on the Z-Axis with a certain x, y Offset to the Spindle center.

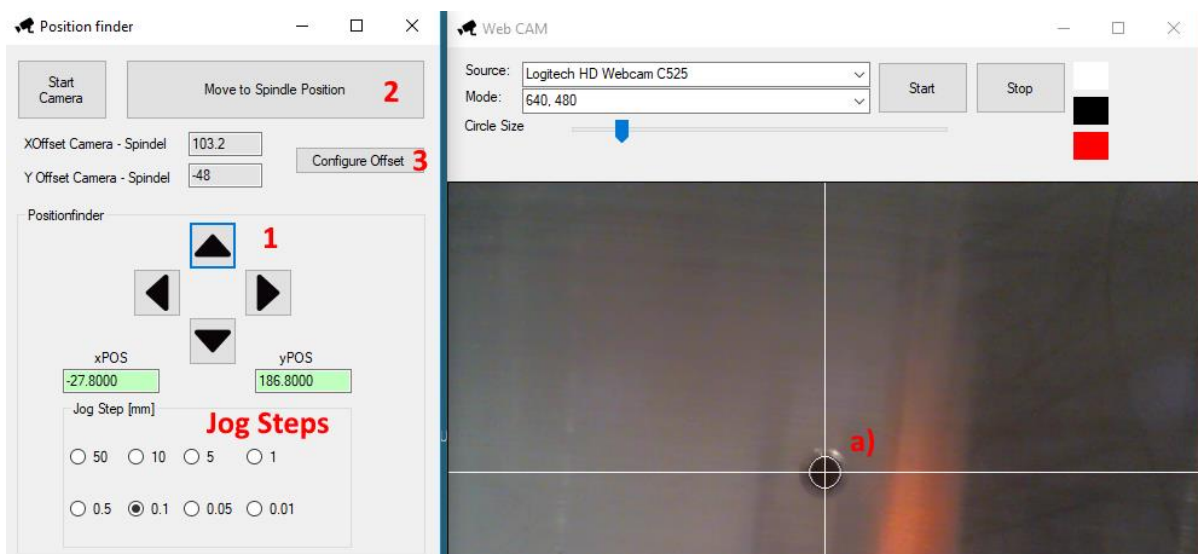
The Application has the following main components:

**Web-Cam:** Webcam application to connect with your USB Cam and do some settings

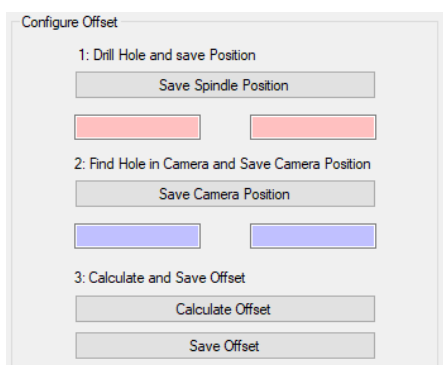
**MyCamera Plugin:** Plugin for UCCNC:  
- Jog Camera over a Position  
- Move the x, y Offset to position the Spindle over the last Camera Position  
- Functionality to setup the Camera – Spindle x, y Offset correctly

Position over a Part Position and set Spindle x0, y0

Assuming the x0, y0 Position is exactly over the Hole a). Set the Jogging Steps and Jog 1) over the hole. Click *Move to Spindle* 2) to move the Spindle over the hole and set the 0, 0 Position in UCCNC.



To setup the Offset, click button 3). This opens the Setup Screen:



1: Move the Spindle over a piece to drill a reference hole. Save this Position

2: find this hole in the Camera and position the Camera exactly over the hole. Save the Camera Position

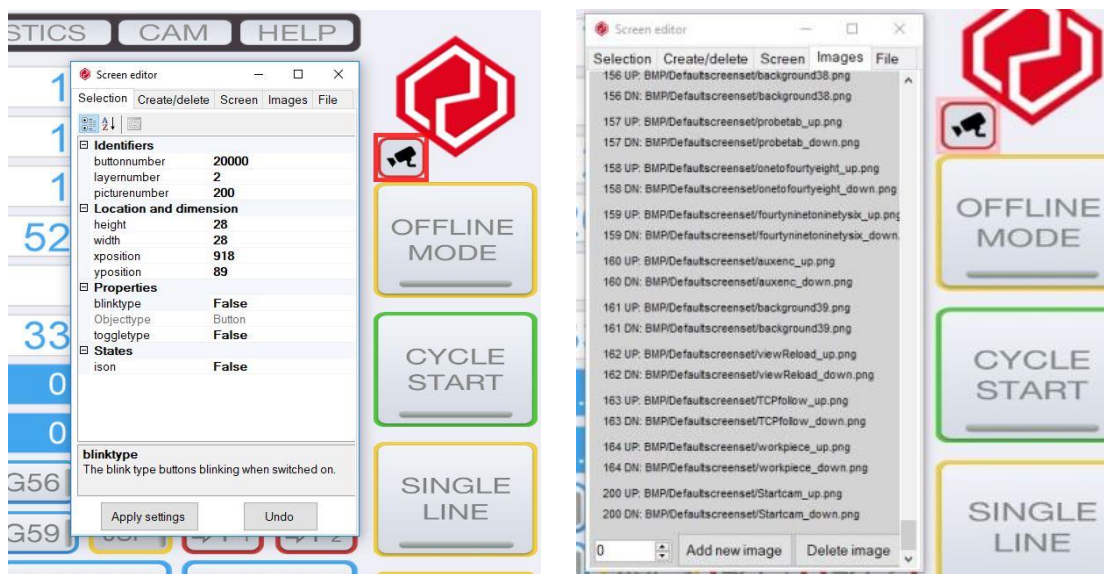
3: Calculate the x, y Offset and Save it.

After this configuration, the button 2) will then always move the Offset to adjust the 0,0 point on your Part,

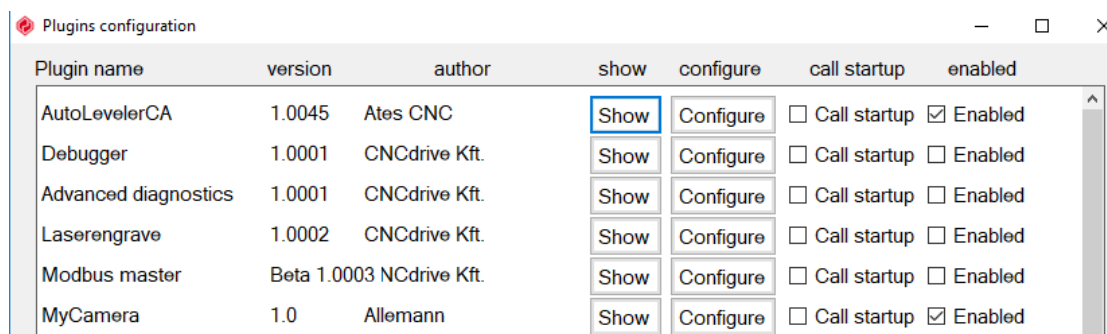
## Installation:

1. Copy MyCamera.dll in your UCCNC Plugin Directory (C:\UCCNC\Plugins)
2. Copy the WebCam Directory in your UCCNC Root Directory (C:\UCCNC\WebCam)
3. Copy the Macro 2000.txt in the Macro Directory of the Profile you are using  
C:\UCCNC\Profiles\Macro\_Default
4. Create a new button with button Number 2000 and Picture Number 200  
(Configuration – Edit Screen)

Save the two Button Images (Startcam\_up.png Startcam\_down.png) in your Screen-set Directory under BMB (Example: C:\UCCNC\Flashscreen\BMP\Defaultscreenset) if you are using the Default Screenset



5. Restart UCCNC, Enable the MyCamera Plugin and Restart again



6. You should see the new Button now on the Run-Screen to start the Plugin
7. Start UCCNC and Enable the Plugin