Cubiscan 210-L Setup Guide

For

Win Warehouse

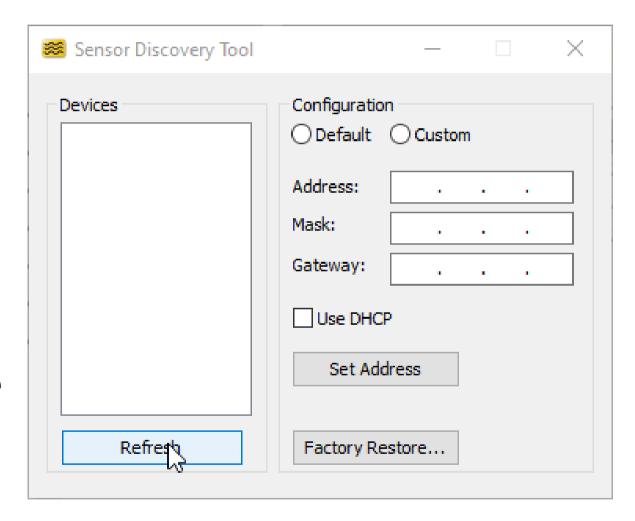
Typical System Setup



Setup IP Address

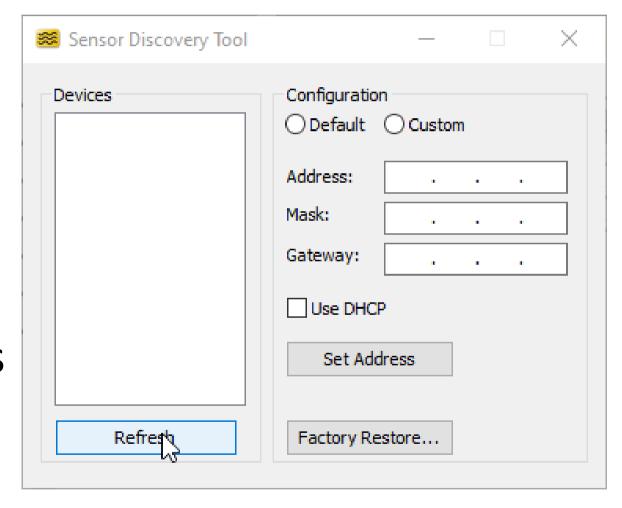
- Locate and launch the discovery tool "kDiscovery.exe"
- C:\Cubiscan\210-L Job
 File\Tools\Discovery

Click "Refresh" to locate connected sensor



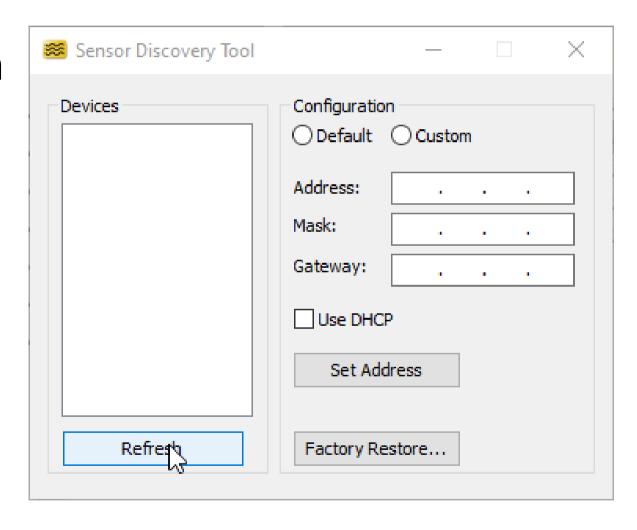
Setup IP Address Cont'd

- You should see the device serial number in the Devices window.
- Select the listed sensor and enter the new IP address 10.1.100.100
- Click "Set Address". This process takes a minute.



Setup IP Address Cont'd

- The Devices list will probably be blank when finished.
- Click refresh and the sensor should reappear in the Devices list.
- You should see the new IP address in the Address field.
- All done here.



Connect to Sensor

• Open a web browser and navigate to 10.1.100.100

Load Base

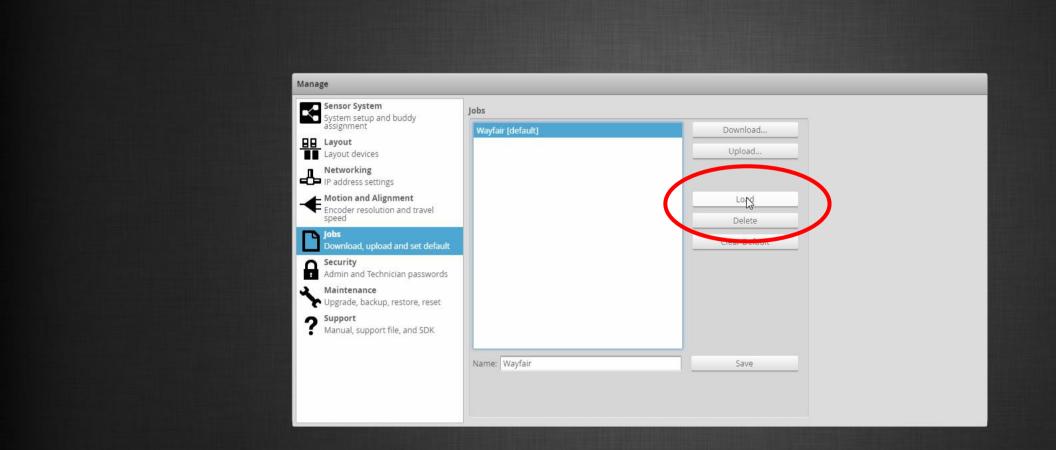
Configuration

Output Dashboard

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- Skip the intro and navigate to the Manage tab.
- Click on Jobs in the navigation pane.
- Click Upload and navigate to the Standard.job file.
- C:\Cubiscan\210-L Job File

- Wayfair should now be in the Jobs list.
- Click Load

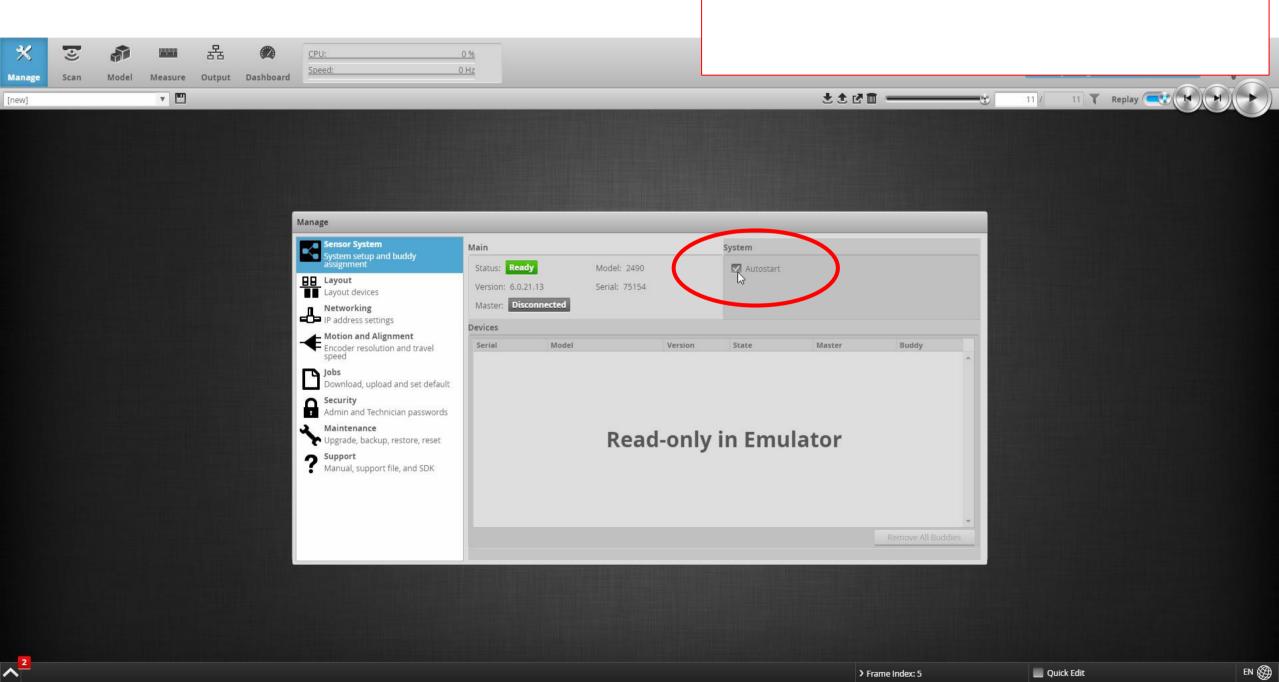


0 Hz

11 T Replay

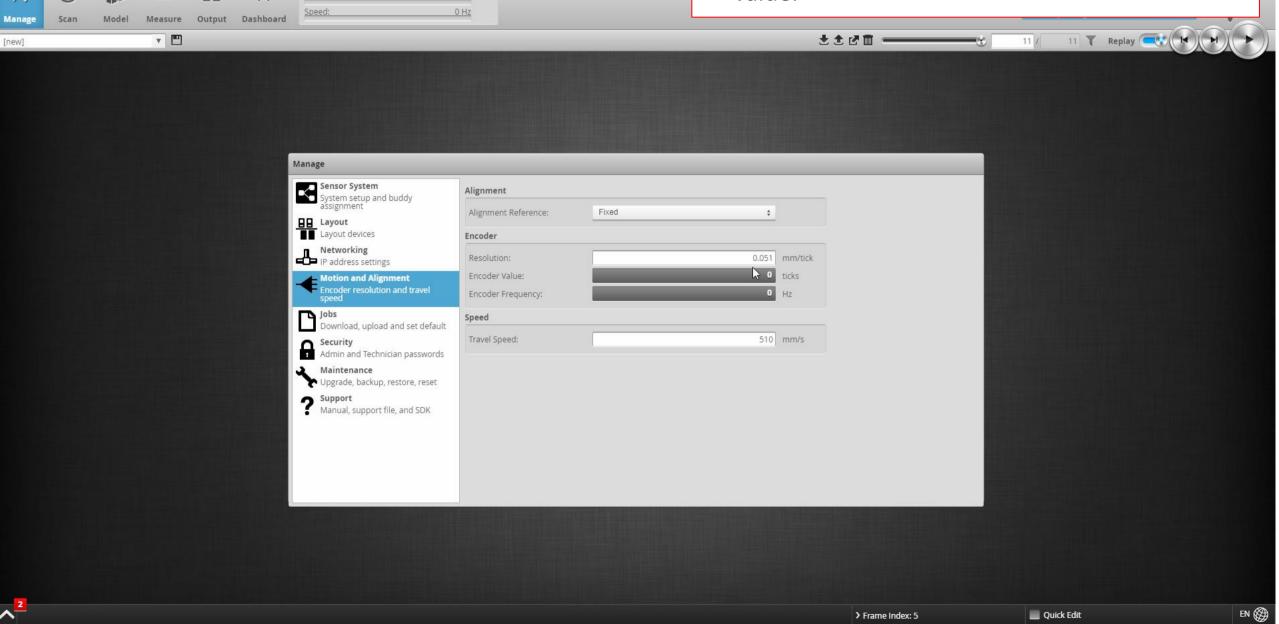
Load Base Configuration Cont'd

- Click on Sensor System in the navigation pane.
- Check the Autostart checkbox
 - This enables the sensor to automatically boot up in run mode after a power cycle.



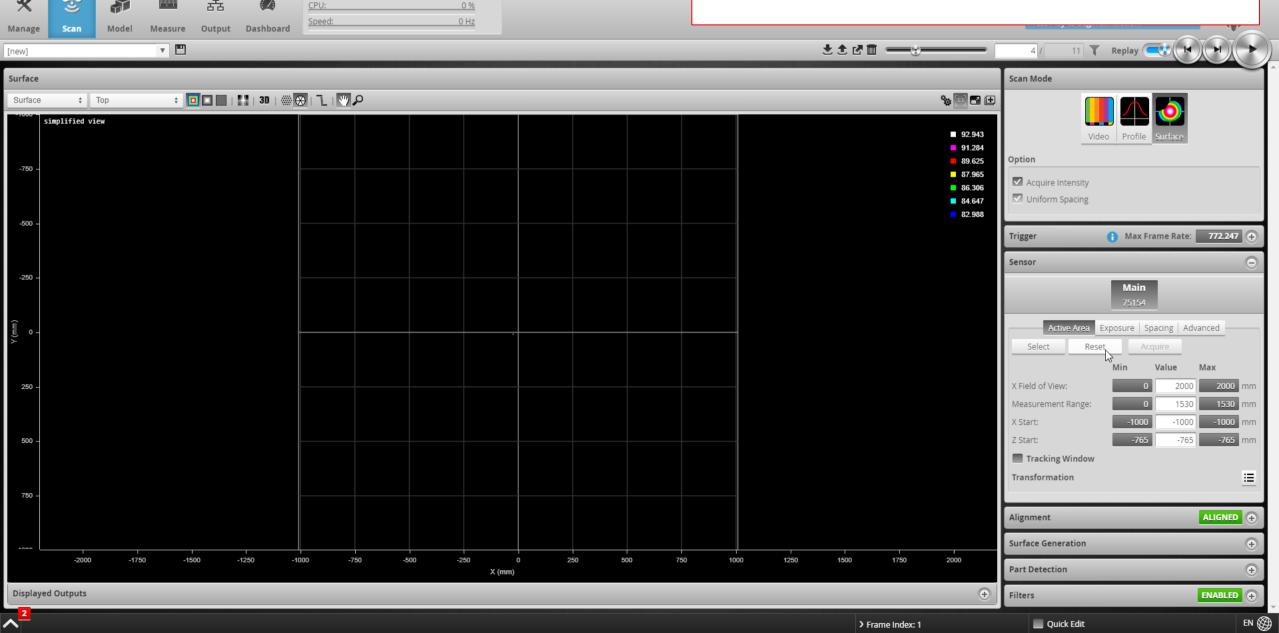
Setup Encoder

- Click on Motion and Alignment in the navigation pane.
- Set the Encoder Resolution to a value of 0.051 mm/tick
- Turn the Conveyor on and ensure that the Encoder Frequency is a positive, fairly steady value.



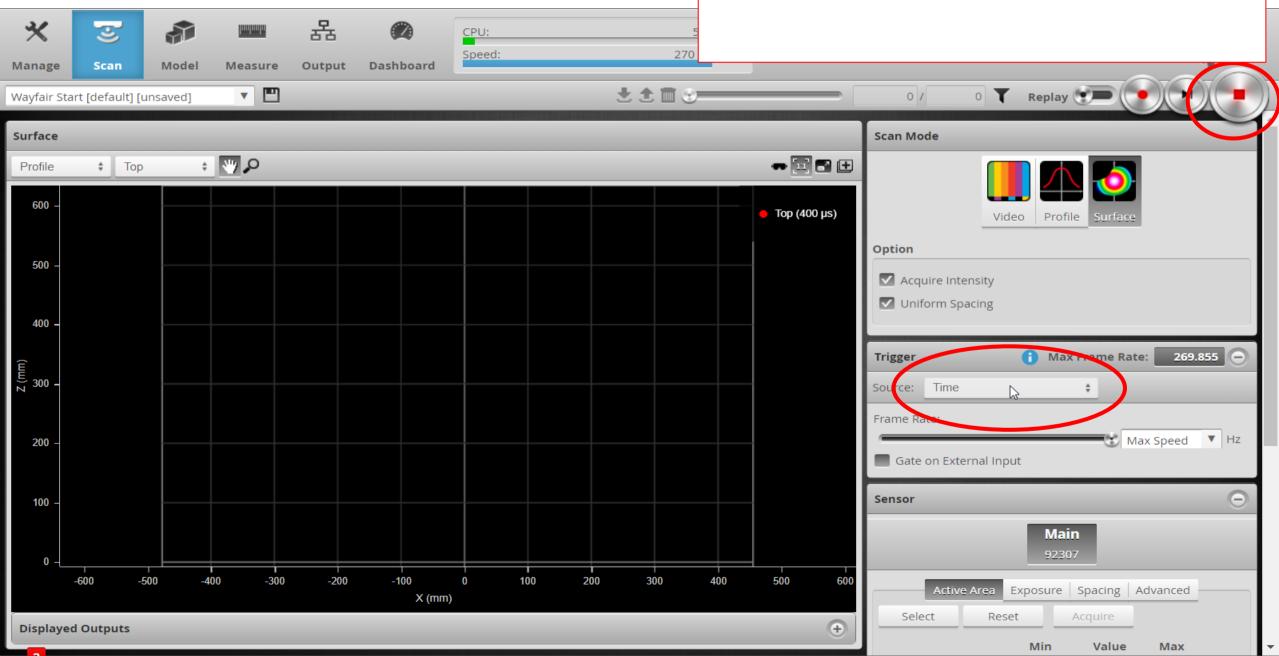
Sensor Alignment

- Click on the Scan Tab at the top.
- Expand the Sensor Section and click Reset under Active Area.



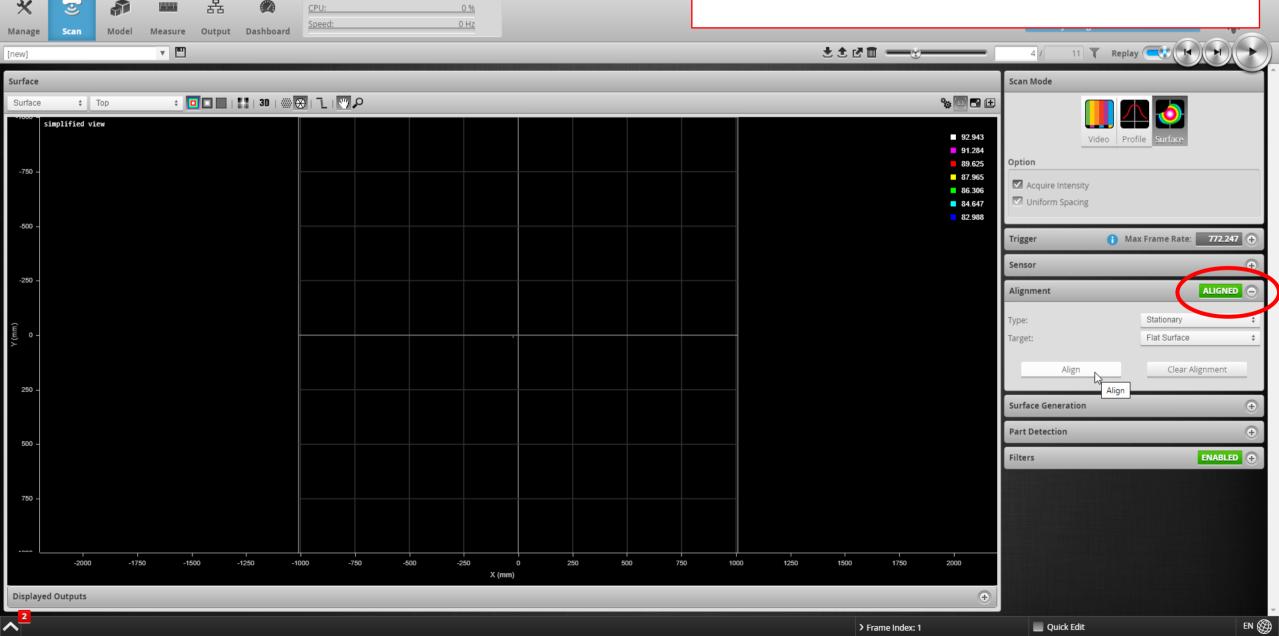
Sensor Alignment Cont'd

- Expand the Trigger section and change the source from encoder to time.
- Make sure the device is in run mode.
 - You should see the laser projected onto the conveyor
 - The exposure can be increased to make the laser line more solid.



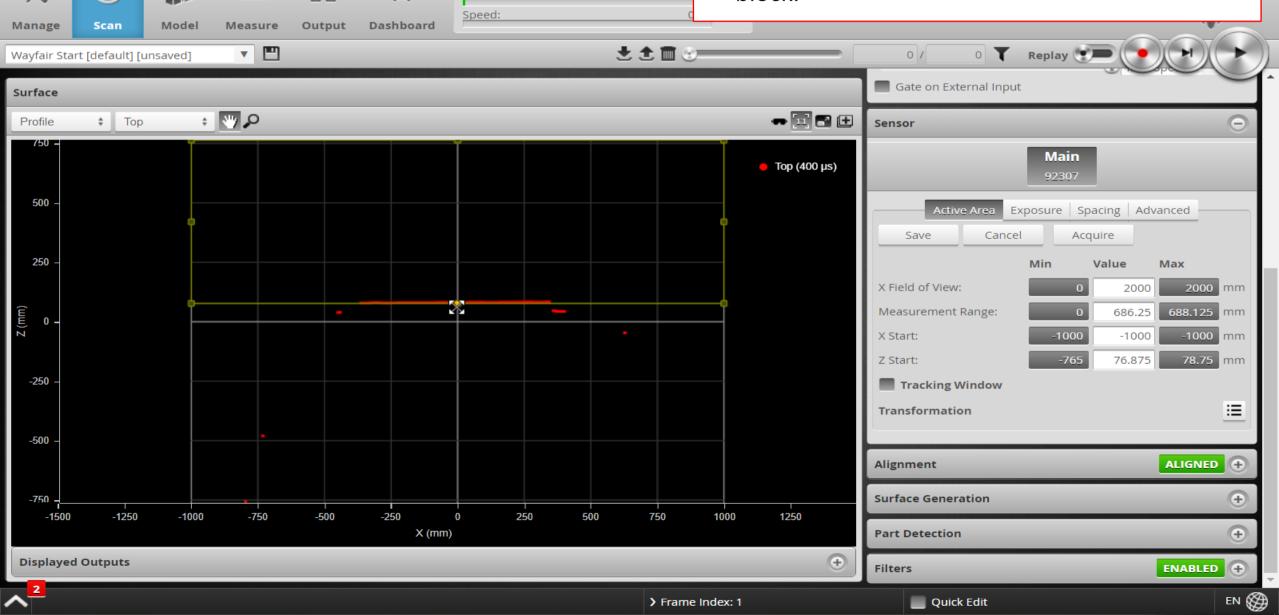
Sensor Alignment Cont'd

- Expand the Alignment section.
- Click Align to align the sensor to the with the conveyor belt.
- If there is no error dialogue, the sensor will be aligned and ready.



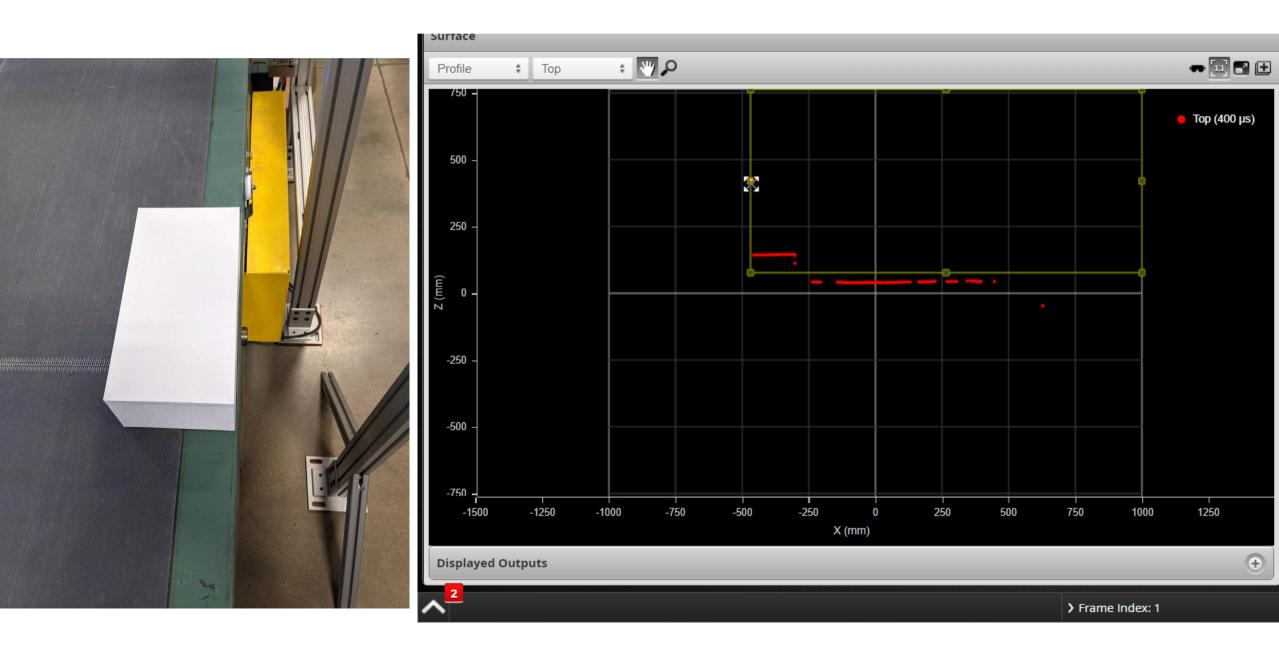
Setup Measurement Area

- Expand the Sensor section.
- Click Select under Active Area. This is where you will define the measurement area for the sensor.
- Click Acquire
- Drag the bottom handle of the box up just below the red line representing the alignment block.



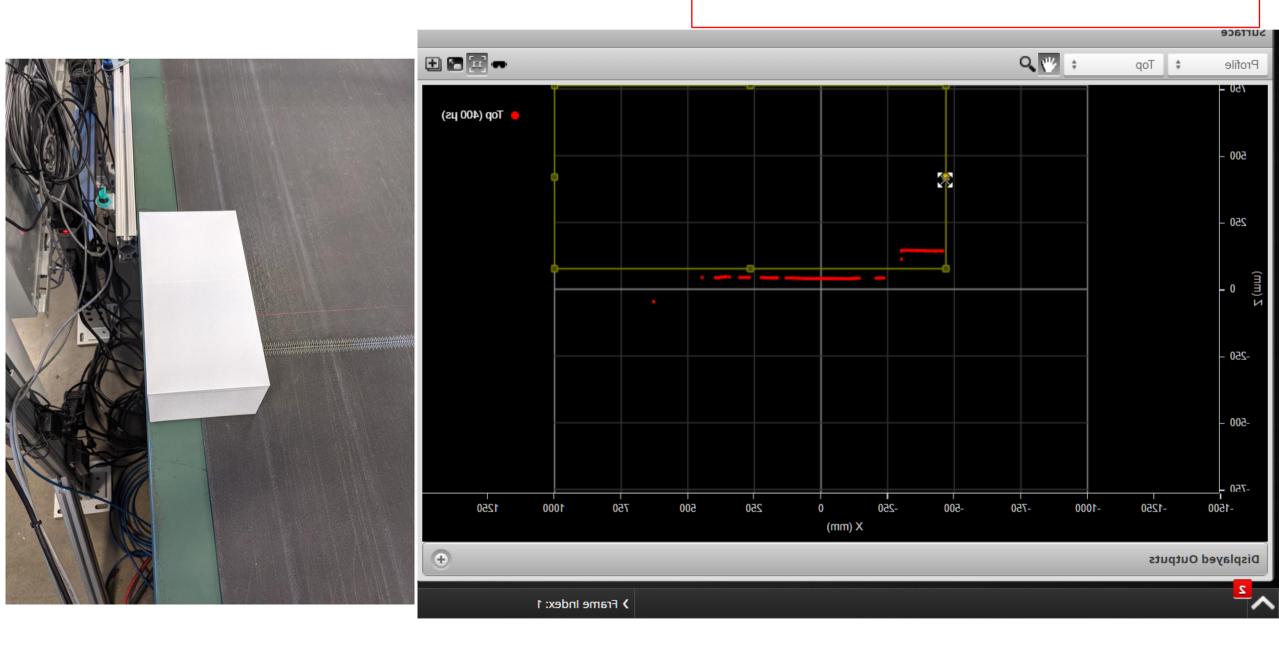
Setup Measurement Area Cont'd

- Without saving, place the white calibration cube at one edge of the conveyor in the laser.
- Click Acquire
- You should see the box represented on the screen
- Drag the left handle of the box just to the left of the red line representing the calibration cube.



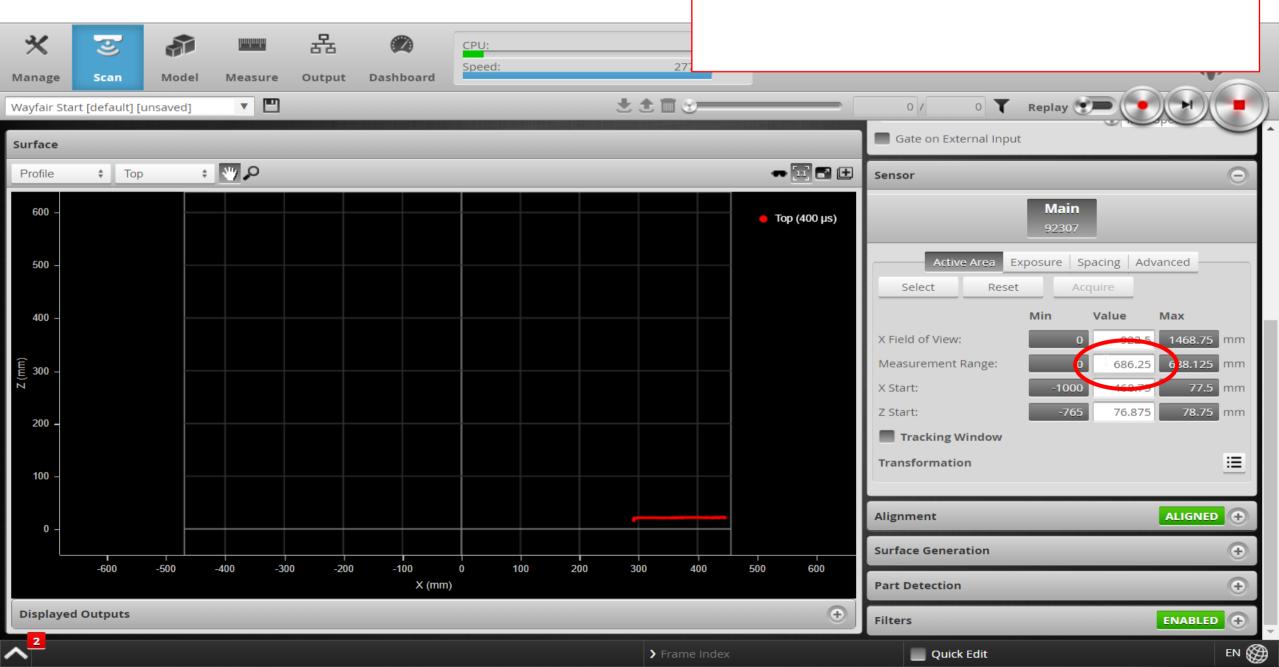
Setup Measurement Area Cont'd

- Repeat the last step for the other edge of the conveyor
- Drag the right handle of the box just to the right of the red line representing the calibration cube.



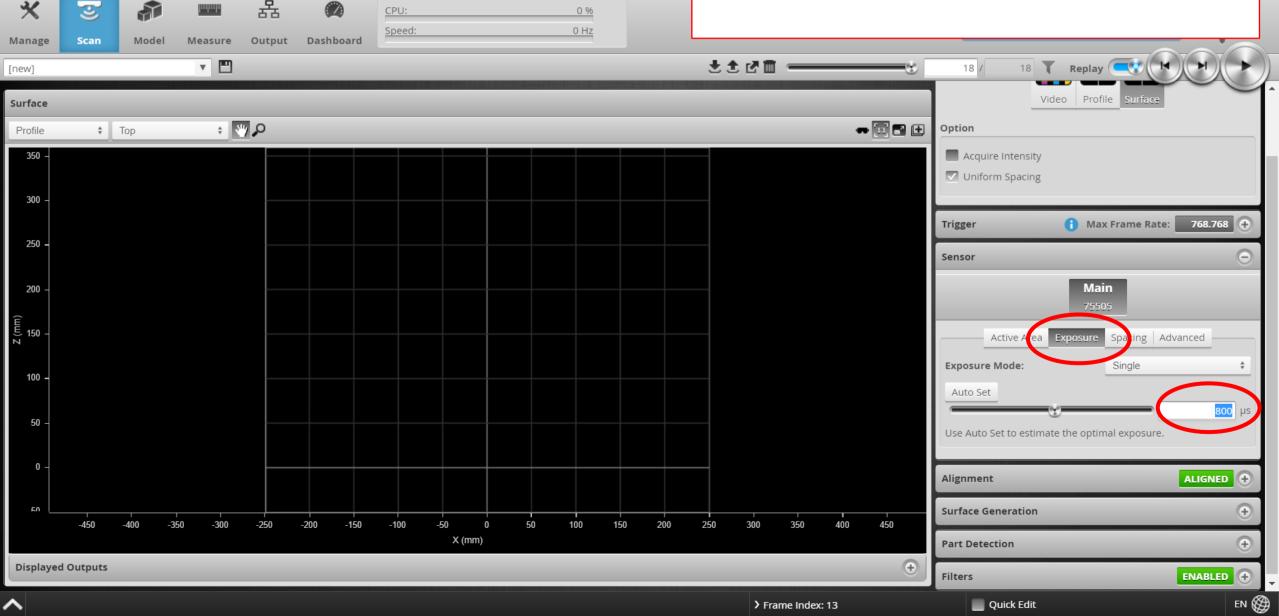
Setup Measurement Area Cont'd

- Now click Save.
- Change the Measurement Range Value to match the tallest expected item



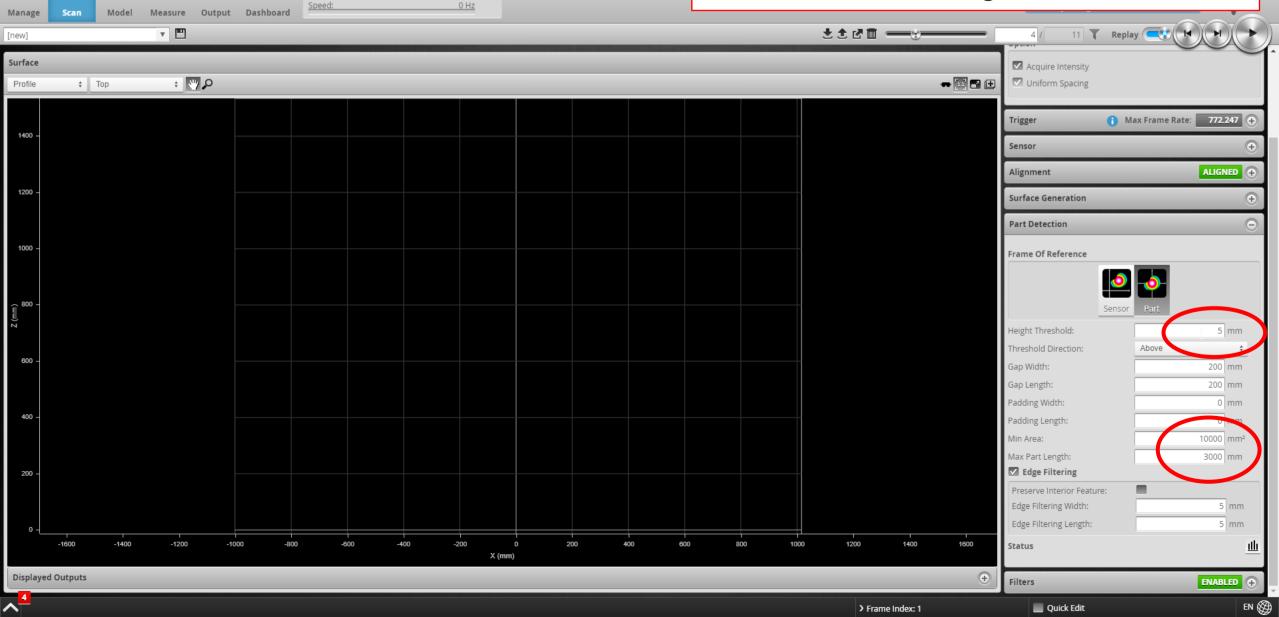
Set Exposure

- Click on Exposure.
- Set the exposure according to the product type and mounting height.
 - This value should typically be 600 -1000μs



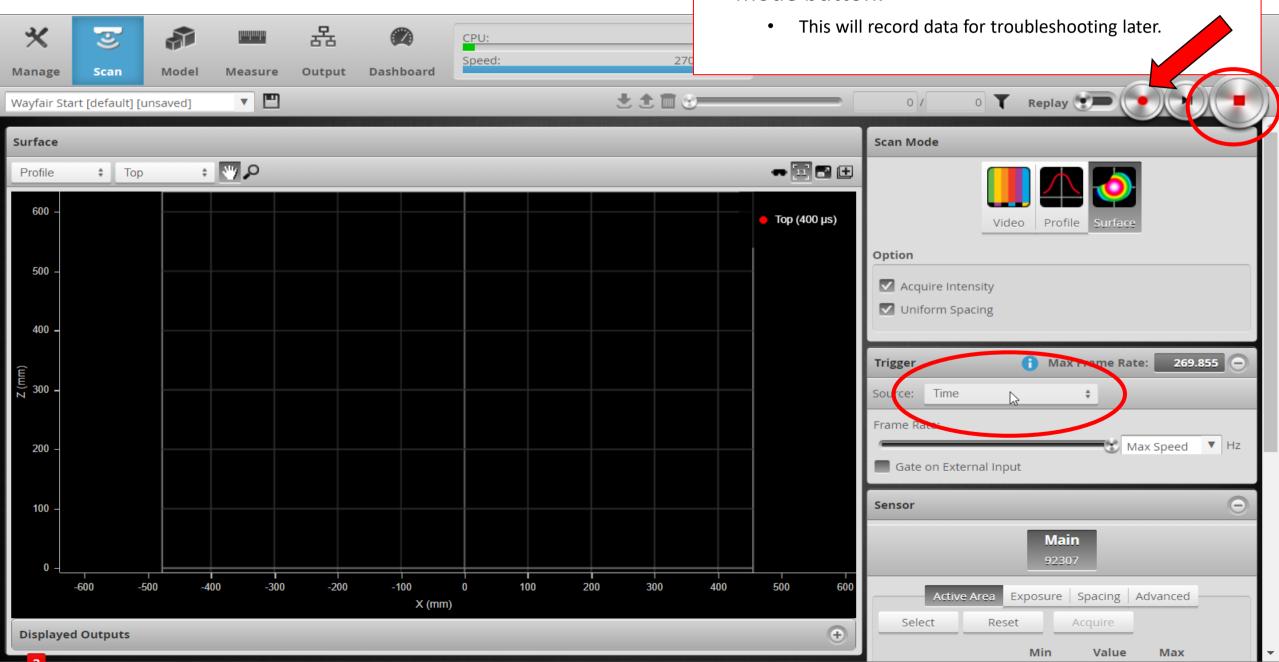
Setup Part Detection

- Expand the Part Detection section.
- Set Height Threshold to 10mm.
- Set Min Area to 5,000mm²
- Set Max Part Length to match the longest expected item length
- Leave all other settings alone.



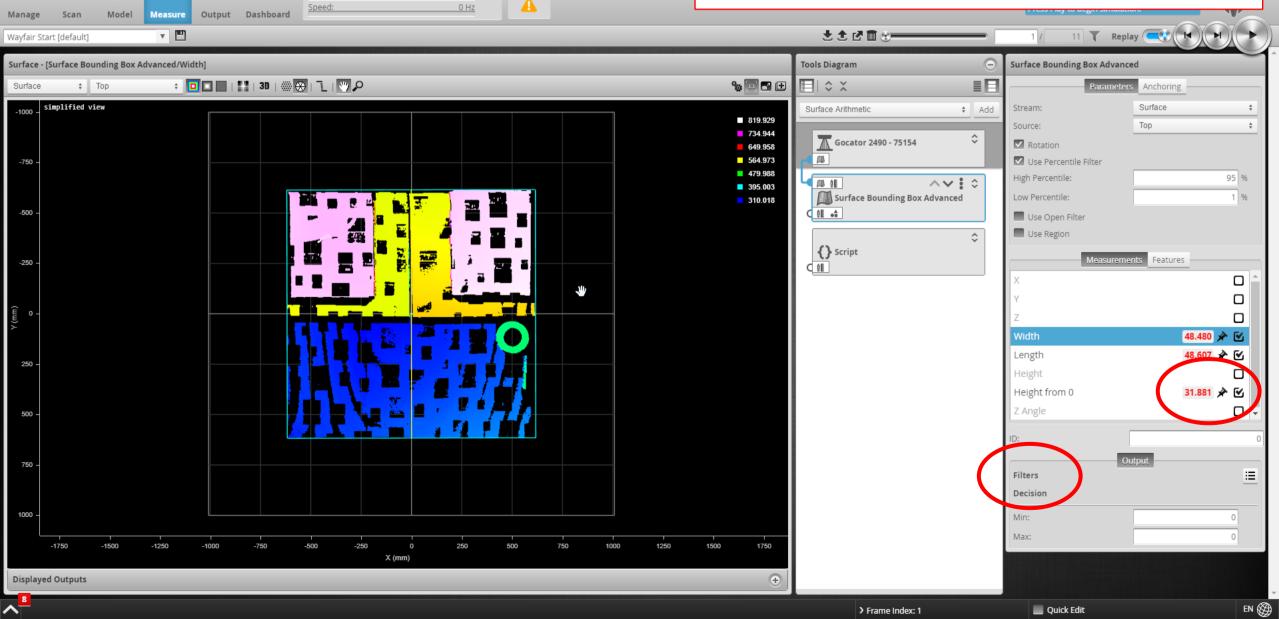
Put in Run Mode

- Expand the Trigger section and change the source from **time** to **encoder**.
- Make sure the device is in run mode.
- Click the record button to the left of the run mode button.



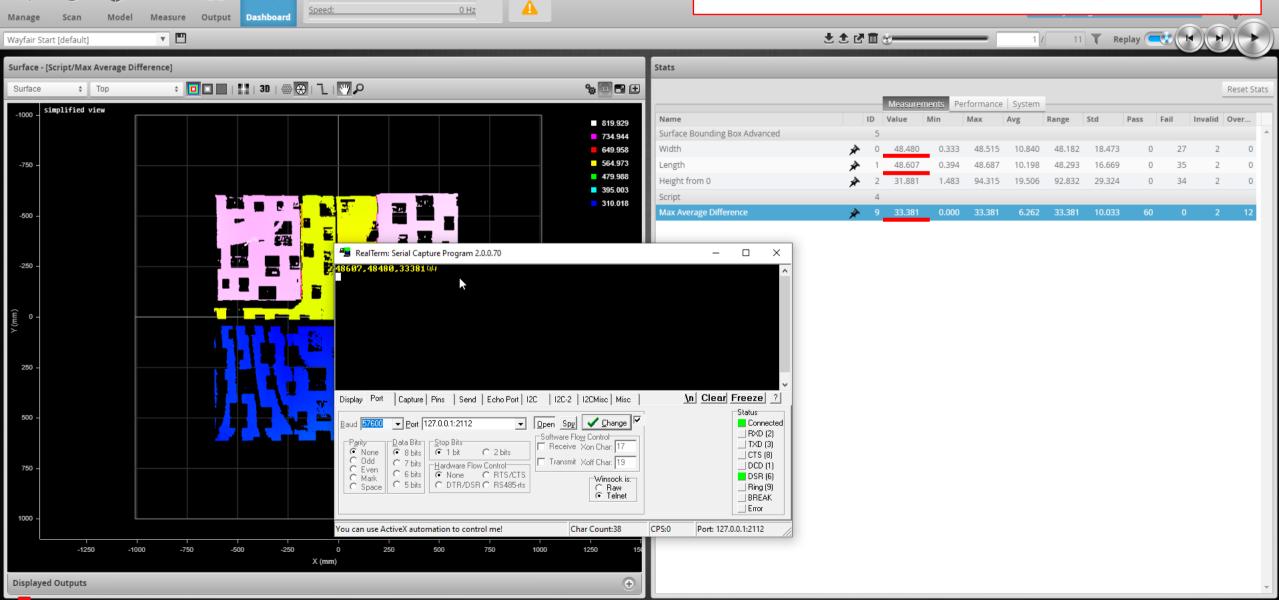


- Click on the Measure Tab at the top
- Start the system and validate dimensions.
- The units are in inches by default but can be changed using the scaling factor below in the filter menu. Set to 1 for mm.



Validate Dimensions and Output Cont'd

- Navigate to the Dashboard tab at the top.
- Open Realterm or Qbit IMS and connect to the sensor data port.
 - 10.1.100.100 Port 2112
- Run a test piece.
- Check that dimensions in terminal match those in the dashboard.



Warning

Save Permanent

Save permanent by clicking the save icon next to the job name. This will ensure the settings will remain if the power is cycled.

