**ISSUES with egg counter**

**Issue 1:** Some eggs are not detected in

* High frame rate
* Less resolution
* Less brightness

**Issue 2:** Some eggs are not counted in

* High frame rate
* Less resolution
* Less / high brightness

**Issue 3:** Some eggs are falsely counted in

* High / low frame rate
* Less/ high resolution
* Less / high brightness

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Resolution | Frame rate | Eggs Counted | Result |
| High Resolution, High Frame rate, Normal Brightness | 1080p | 29.92 | 130 | Bad detection |
| Low resolution | 240p | 29.92 | 114 | Bad detection and counting |
| Low frame rate | 1080p | 10 | 89 | Good detection, bad counting |
| Low Brightness and Blur | 1080p | 29.92 | 0 | Worst case scenario |
| Low Brightness | 1080p | 29.92 | 106 | Bad detection |
| Low Speed (0.5x) | 480p | 29.92 | 405 | Good detection, bad counting |

**Code Lines Changed**

**Low resolution**

frame40 = reScaleFrame(frame, percent=100)

self.leRadiusMin.setText('5')

self.leAreaMin.setText('220')

**Low frame rate**

self.leRadiusMin.setText('10')

self.leAreaMin.setText('300')

**Egg Counter Video**

frame40 = reScaleFrame(frame, percent=100)

self.leRadiusMin.setText('5')

self.leAreaMin.setText('20')