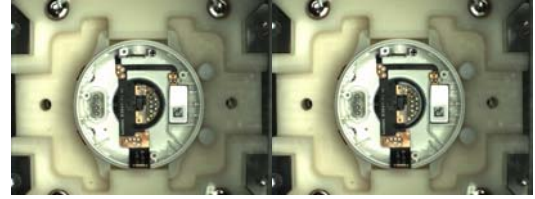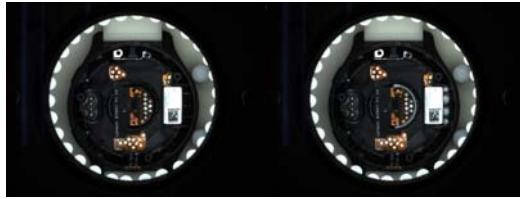# Final Project

- ☐ Identify the dispensing place in image
  - ■ Use the <u>same</u> program and parameters for all photos
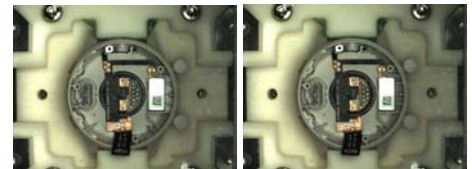

- ☐ Recognize the dispensing quality
  - ■ Use the <u>same</u> program and parameters for all videos
    - ☐ Good

    - ☐ Poor

Final Project

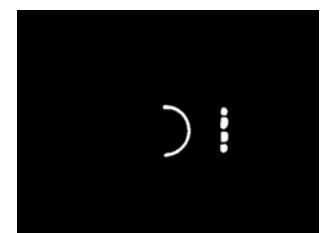- ☐ Evaluation
  - ■ Identify the dispensing place in image
    - ☐ "sample_good" file directory
    - ☐ Ground truth: 8-bit image
    - ☐ Compute IoU between your result and ground truth
    - ☐ Computational time of each image

Ground truth

	1	2	3	4	5	6	7	average
IoU	xx%	xx%	xx%	xx%	xx%	xx%	xx%	xx%
Time (sec.)	oo	oo	oo	oo	oo	oo	oo	oo

  - ■ Recognize the dispensing quality
    - ☐ Training images
      - ■ "database" file directory
    - ☐ Testing images
      - ■ "sample_bad" file directory: (number of correction)/25
      - ■ Computational time of one image
      - ■ List which sample you can correctly recognize
        - ▪ E.g. 1,2,5,7,8,...

Final Project

☐ Requirements

■ Presentation at 1/11

☐ Present 5mins., including: flowchart, key methods, results, reference (function, library or paper).

■ Upload program and report to 北科i學園 before 1/28

☐ Describe the employed source code editor, library, and how to execute your program (input/interface/output)

■ E.g. Identify the version of Visual Studio and OpenCV

☐ Introduce your work, method, and discussions

☐ Analyze your results, including accurate rate and fps

■ You can use OpenCV or any other library to complete this project.