CEPC MOST2 prototype assembly Pattern recognition

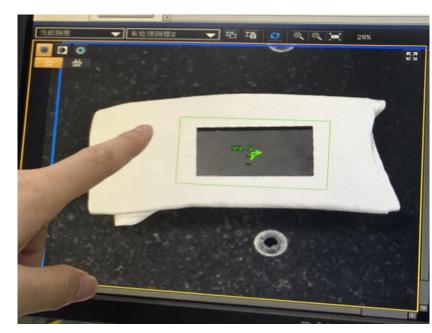
Xinhui Huang

Gantry for vertex detector prototype assembly

- 3~5um good position resolution require high assembly precision
- Cooperate with domestic company on R & D Gantry automatic module assembly.
 - Pattern recognition with high resolution camera
 - Automatic chip pick-up and positioning
 - Automatic Glue dispending
 - **Gantry system**



Pattern recognition

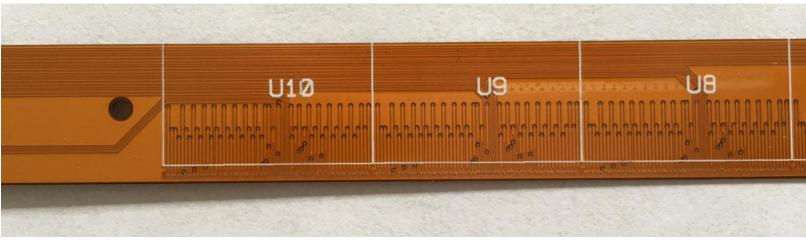


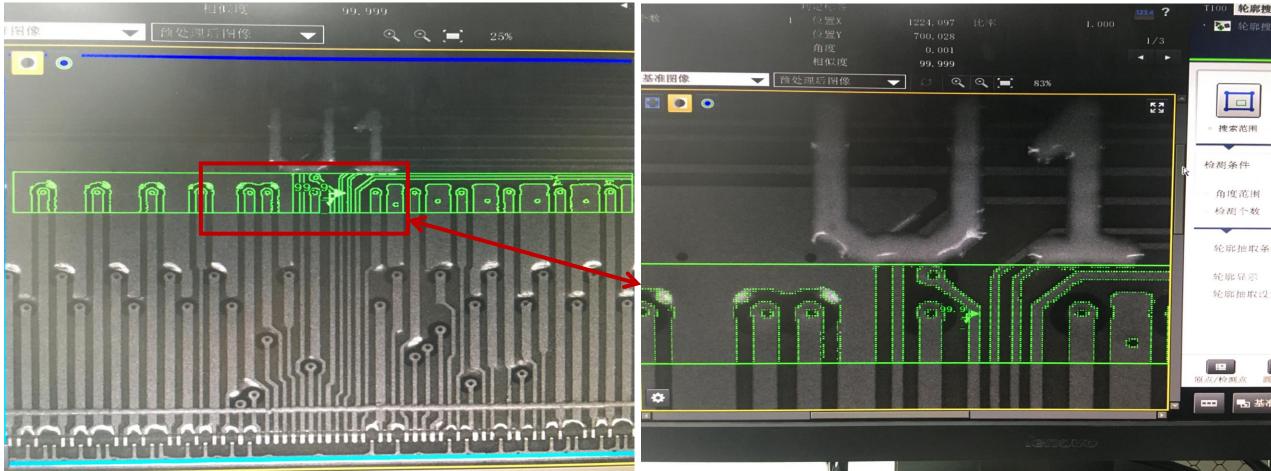
automatic glue dispending

Pattern recognition

Flex cable

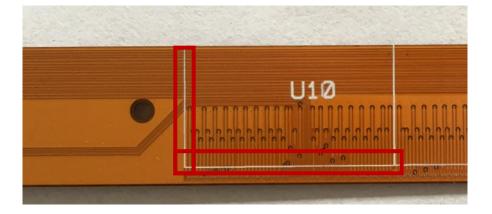
Contour recognition

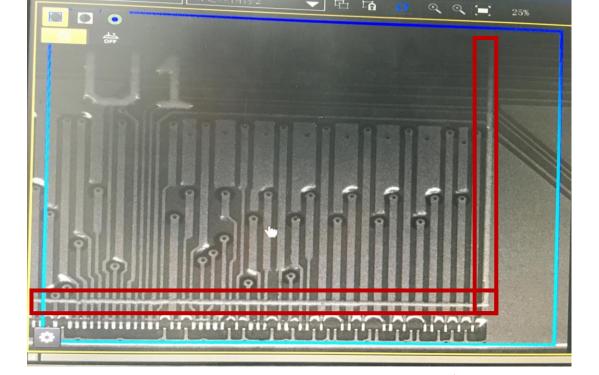


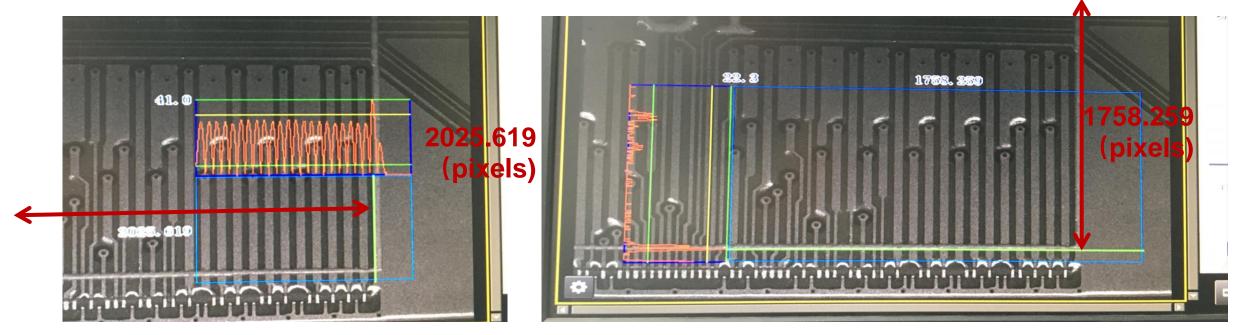


Boundary recognition

Recognize the white boundary printed on the flex cables

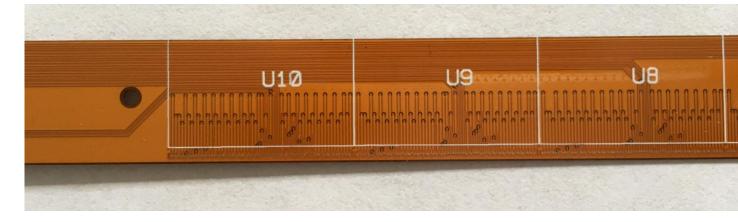






Summary

High precision pattern recognition



Summary

- Appropriate to use the white boundary for recognition?
- Other markers for pattern recognition?

Backup



