APP1020

Test-tube type identification barcode reading and cap control

- ✓ Pharmaceutical
- ✓ Code recognition
- ✓ Pattern recognition
- ✓ Color measurement
- ✓ Multicontrol

Complexity

❶❷❸④⑤

TECHNICAL FEATURES

- ○ *EOPTIS' color camera, remote control, integrated illuminator and processing unit*
- ○ *Small camera sizeb (37x45x50 mm^3)*
- ○ *Identification of 17 different test-tube types*
- ○ *Remote interaction with the control software via RS232*

1 CUSTOMER NEEDS

The main need is to communicate information like the barcode printed on the label, test-tube dimension and cap color (if any), to the shunting system. The requested operation must be carried out while the test-tube is moving and within a defined time interval.

- • Test-tube identification
- • Barcode reading
- • Cap presence check - color classification

2 SOLUTION

EOPTIS developed a vision system that satisfies the customer needs using a single color camera and capturing a set of images when the test-tube enters the input gate.

- • Single color camera vision system
- • Multi-image acquisition

3 BENEFITS ACHIEVED

The implemented solution drastically reduced the error-ratio of the shunting system, allowing the process tracking and increasing the system efficency.

- • Reduced error ratio
- • Process traceability and increased efficency

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