

APPLICATION NOTE

Identifying if a Batch/Date Code is present and complete on a product

CAPABILITY

Smart cameras provide a variety of tools to identify code presence and completeness, including.

- Edge Count – Counts contrasting edges within a region.
(This tool can be used to count dark-light edges or light-dark edges or both, within a region)
- Width – Measures the maximum width of contrasting edges within a region.
(This tool can be used to measure the length of the printed code)



Complete Code



Missing Print

HARDWARE

Typical hardware required:

- Camera
- I/O Cable
- Ethernet Cable
- Integrated Lighting
- Trigger Sensor

To upgrade for advanced date code inspection capability:

- Camera with advanced algorithms
- External Illuminator

METHOD

- a reference image is to be captured by the camera.
- a region is drawn around the area where the date code should be printed.
- the selected tool will inspect the coded region for presence/completeness of the code.
- a pass/fail output can be set for finding missing/incomplete date codes.

CONSIDERATIONS

- IP rating requirements
- communication protocols of the host system
- means available to receive/output code strings to/from the smart camera
- number of product types to be inspected and product colours
- an upgraded smart camera, with OCR and/or pattern matching, is required for full validation of character strings

OFFER

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TECHNOLOGY PARTNERS

