FyrEye-2710 Wood Product Inspection Systems

Automatically inspects profile and surfaces of boards and complex contoured wood products for an extensive range of defects and attributes.

FyrEye-2710 systems inspect and measure profiles of linear wood products, such as: moldings, dimension lumber, flooring and tongue-and-groove products in low, medium and high speed linear production processes. Inspections identify, measure and apply the customer's pass / fail criteria to these types of attributes & defects:

- Chips
- Gouges and gaps
- Voids
- Rips, tear outs
- Surface patterns and colors
- Profile shape and dimensions
- Process malfunctions
- Lamination Issues
- Stains
- Oversized knots
- Codes and markings

This system will often be used to:
- Collect/store/provide data
- Provide a signal to the operator such as on-screen information or an alarm
- Initiate an automatic rejection process

The FyrEye-2710 is a family of systems, customized to your application and requirements. Here is an example of one system configuration—FyrEye-2710-02. Your particular model will be from the same family, but will have different variations in the equipment and capabilities from what is listed below:

- Style 30 NEMA 12 CVP (Central Vision Processor) enclosure with vortex cooling.
- Inspection of 2 flat surfaces for chips, gouges, cuts, holes and other geometric defects and deformities.
- Fulfills application and performance specification # VAS-2710-02 (copy available). Each application will have its own VAS (Vision Application Spec Sheet).
- Engineered lighting specialized for solution performance.
- 2 progressive area scan cameras with NEMA 12 enclosures and window blow-off options.
- Conditional storage of 150,000 images of rejected defects.

- Neural Net surface inspection and defect classification.
- Spreadsheet storage of numerical results.
- Direct hardware trigger option.
- 16 discrete inputs/output.

Please contact FSI for a system and solution that is confirmed for your application.

FSI has been a trusted factory automation manufacturer for over 50 years. Our Assured Path to Success ™ methods and program have a 100% success rate in the field of machine vision. Because our engineers are deeply involved in understanding the application, recommending the products and supporting the software, these systems are uniquely suited for long term supportability and standardization.

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