



Embedded color camera technology for paper production A new dimension in web quality grading



The fastest cameras in the market are now EMBEDDED and activated with COLOR

High quality standards and strict regulations, especially in food and medical industries, are big challenges for paper manufacturers. Paper suspected of being contaminated with organic substances or oil becomes – for safety and liability reasons – unusable.

Defective or sub-standard material has to be eliminated – even though it might be allocated to an alternative customer by a different quality classification.

The EMBEDDED COLOR CAMERA now simultaneously detects the color in addition to the b/w channel and thus enables a clear classification of defect types that are non-classifiable by b/w cameras. Oil stains, bacteria and other liquid-based defects can be clearly identified and reliably assigned to their defect class.

Benefit from boosted self-learning defect classification performance, optimized cleaning cycles and lower processing costs.

Applications

- In-line quality control for paper surfaces
- Quality critical defects are reliably classified based on color detection

Advantages

- All-in-one, compact inside one camera body:
 - Sensor, processor and interfaces integrated
 - Single line and dual line mode with multiple configurations
- Color and monochrome image available simultaneously
- Multi-view color reflection & b/w transmission or other configuration, without limitation of channels
- High-precision detection for reliable defect classification
- Cost saving: Space saving embedded camera installation
- Predictive maintenance for periodical cleaning cycles
- Extension to an integrated Paper Quality
 Management System possible

Add COLOR to detection. Boost classification performance. Optimize cleaning cycles. Lower processing costs.

Waste can be significantly reduced because defective material can either be removed or the inspection results can be used as a decision support for alternative use cases.

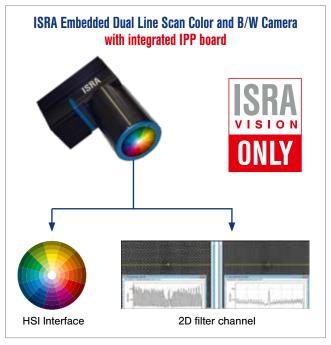
In addition, paper makers benefit from significant optimization of up- and downstream decisions like cleaning circle schedules due to bacteria influences.

PAPER MASTER Web Inspection WIS, Web Break Monitoring WBM and Unwind Control System UCS

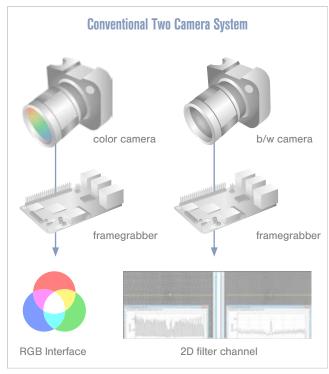
- Latest embedded (COLOR) vision technology with high-end detection and classification
- WBM: Smart, compact, all-in-one IntelliCam-based monitoring solution
- WIS & WBM: Fastest, most reliable defect root cause analysis
- Completed by UCS: clear defect assignment by location on the sheet

Paper Quality Management System

- Efficient decision-support: Correlate any production data with web quality data to uncover previously unused potential
- App-inspired, device-independent user interface



ISRA VISION



Conventional System

ISRA VISION

Germany Tel.: +49 (2408) 927 00 0

Belgium Tel.: +49 (2366) 930 00

Spain Tel.: +34 (93) 839 70 32 France

Tel.: +33 (0) 155 681 250

Italy

Tel.: +39 (0464) 490 603

UK

Tel.: +44 (1442) 261 202

USA

Tel.: +1 (770) 449 77 76

Brazil

Tel.: +55 (11) 347 611 32

Turkey

Tel.: +90 (212) 285 97 45

Russia

Tel.: +7 (921) 055 63 30

P.R. China

Tel.: +86 (21) 685 002 88

Japan

Tel.: +81 (45) 534 99 11

Korea

Tel.: +82 (31) 806 973 00

Taiwan (R.O.C.)

Tel.: +886 (3) 250 01 48

India

Tel.: +91 98 23 16 24 55