

PARQUET BLOCK SORTING

Defects in wood surface are inspected and classified by their spectral features. Spectral color imaging improves the detection and discrimination of defects in hardwood parquet blocks over RGB systems.

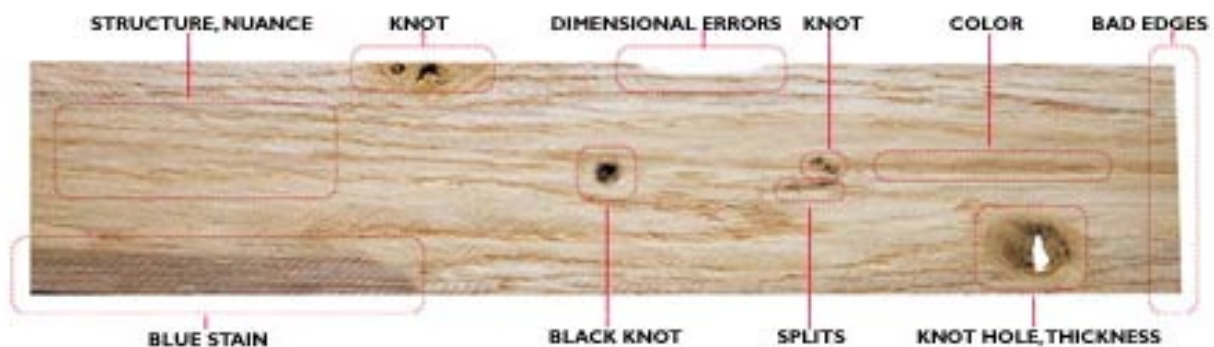
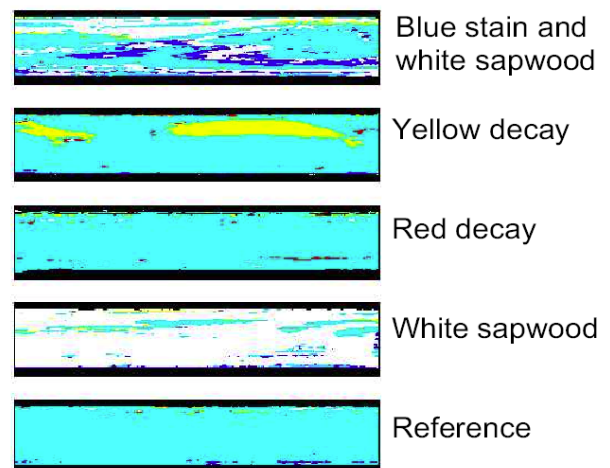


Figure 1. Wood sample

Implementation

- Continuous acquisition with halogen illumination
- Custom CMOS sensor based on Spectral Camera that allows fast readout of application specific wavelengths only
- Real-time spectral classification of pixels on-chip of the smart camera, up to 2000 classified lines/s



Visualization of classified samples.

Figure 2. Visualization of classified samples