

# Panel Visual Analyzer R5 - Repairing

## 3D AND COLOR DEFECT DETECTION FOR PANEL REPAIRING



## Compact solution for panel repairing defect detection

Panel Visual Analyzer R5 – Repairing is designed for the Raute´s R5 Panel Repairing station for analyzing the surfaces of the panels. It provides the 3D measurement for the detection of the surface contour and defects of the panel. The analyzer detects defects like dents, holes, and splits and takes into consideration their length, width, depth, volume, and number. A more advanced system is including also the color cameras for detecting color defects like resin pockets or wane. The correct solution is chosen based on customer requirements for defect detection.



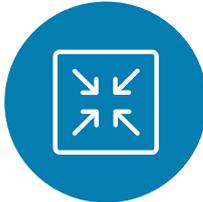
# Key benefits



**MAXIMUM  
PRODUCTION  
CAPACITY**



**USES 20% LESS  
REPAIRING  
MATERIALS THAN  
TRADITIONAL  
REPAIRING METHODS**



**SMALL SPACE NEEDED**



## Technical specifications

	3D Color	3D
Available sizes (ft)	5 - 8	5 - 8
Grading accuracy	>95%	>95%
Color defects (e.g. Knot, wane)	●	●
Dark defects (e.g. Dark wane, Dark knot)	●	●
Face Veneer Thickness (mm)	1.0– 4.2	1.0– 4.2
3D defects (e.g. Hole, Split)	●	●

# Analyzers for Panel Handling

## Ensure the panel quality in the final pass

Raute's technologies cover all stages of panel handling, ensuring that every panel reaches its highest possible value. Panel repairing plays a key role in achieving smooth, high-quality surfaces. Our ecological and efficient repairing solutions are designed to identify repairable defects on any plywood and optimize the entire repairing process. By repairing defects accurately, mills can maximize end-product quality and improve overall recovery.

Even a single undetected defect can cause a panel to be downgraded, potentially cutting its value by more than 50%. With improved defect-detection accuracy, only the critical defects are identified and repaired according to their actual size. This ensures precise use of repair materials, protects panel value, and realizes the full potential of the product. Recognizing the panel's value already at the repairing line enables mills to maximize profitability across the entire production flow.

To complement repairing, Raute's panel testers allow you to evaluate and improve panel quality, strength, and stiffness. Testing properties in-house ensures that every panel meets structural standards and makes it easier and faster to validate lay-up formulas and maintain the required design characteristics.

Learn how optimized panel handling and accurate defect detection safeguard panel value and elevate your product quality.



[raute.com](https://raute.com)

Making Wood Matter