

APPS-REB-IA-101

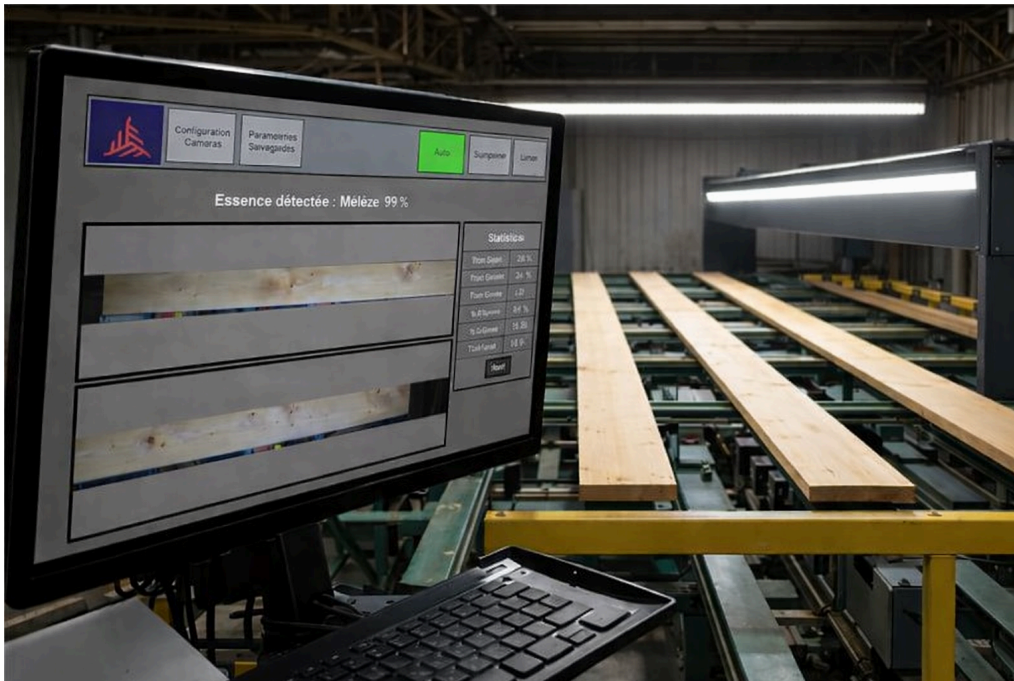
WOOD SPECIES RECOGNITION



Apps & hardware compatible with MC24 controllers, using AI for precise, real-time identification of wood species. The app optimizes sorting and grading while maintaining continuous production without stoppages.

Benefits & gains

- Stronger quality control
- Stable production flow
- Optimization of production rates
- Fewer human interventions and checks
- Fewer customer complaints and returns
- Optimization of drying cycles
- Reduced financial losses caused by mixed wood species



Technical specifications

- Web HMI interface with secure remote access
- Multiple industrial communication protocols (including EtherNet/IP)
- Programmable inputs/outputs (I/O)
- Multi-camera module
- IP67 industrial panel, assembled and CSA certified

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WOOD SPECIES RECOGNITION

FEATURES	
Variant	Designed for harsh and abrasive environments
Technology	AI computer with a high-performance CPU and GPU, pretrained neural networks and a high-resolution 2D camera
Capacity	System compatible with recognition of boards up to 5,638 mm (18.5 ft)
Wood species recognition	Fir, spruce, larch (contact the manufacturer for more information on other wood species)
PERFORMANCE	
Maximum conveyor rate	230 pieces/min
Resolution (px/mm)	1.6 px/mm
Field of view (FOV) [mm]	Can cover a conveyor up to 5,638 mm (18.5 ft)
INTERFACE	
Ethernet speed	Gigabit Ethernet - 1000 Mbit/s
Visualization	Web HMI with password-protected access via IP
Digital inputs	8
Digital outputs	16
Communication protocols	EtherNet/IP, Profinet, Modbus TCP, OPC UA, TCP/IP, MQTT, HTTP, UDP
ENVIRONMENT	
Operating temperature	0 to 50 °C
Storage temperature	-30 to 80 °C

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