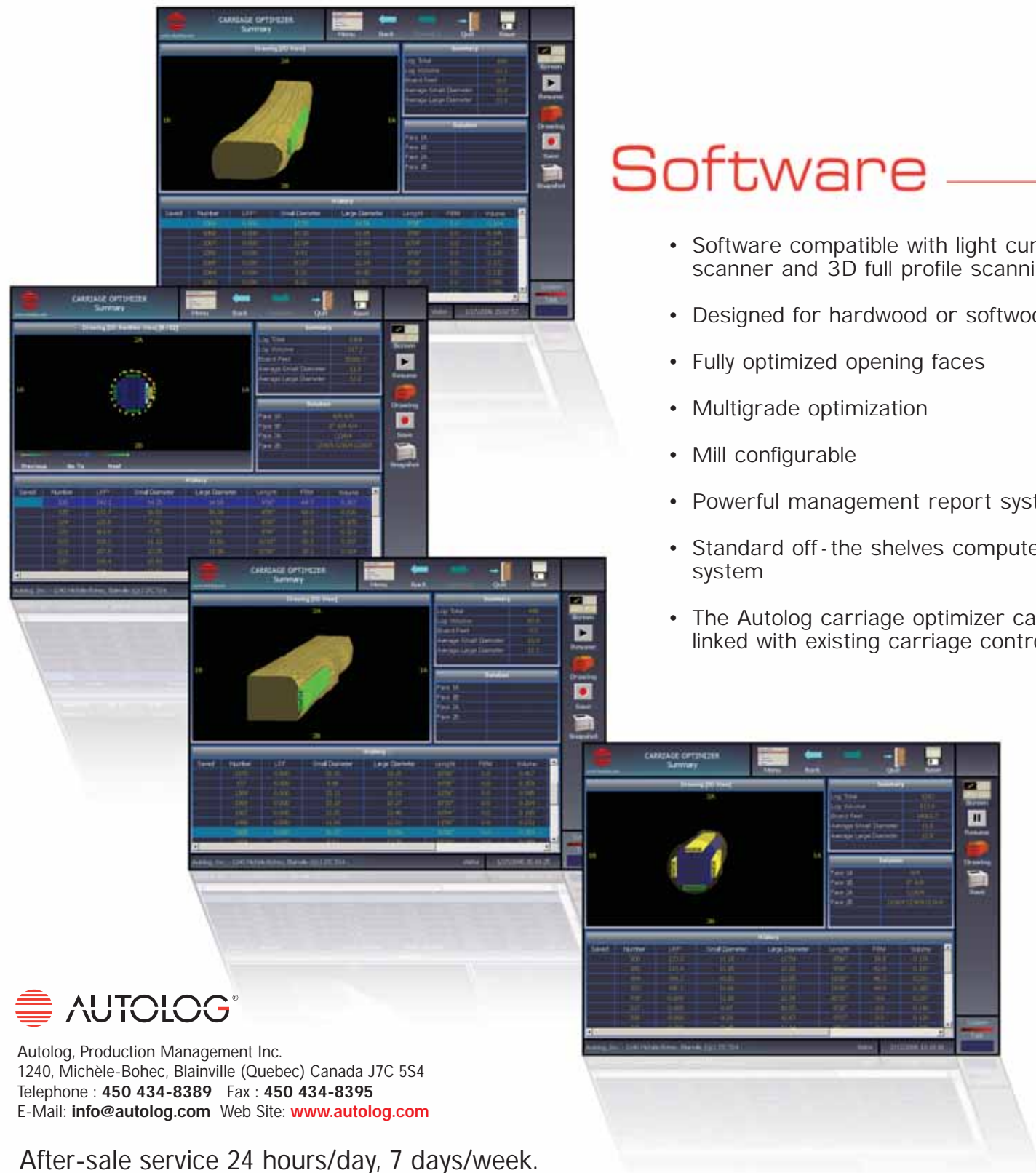


Software

- Software compatible with light curtain scanner and 3D full profile scanning
- Designed for hardwood or softwood
- Fully optimized opening faces
- Multigrade optimization
- Mill configurable
- Powerful management report system
- Standard off-the-shelves computer system
- The Autolog carriage optimizer can be linked with existing carriage controller

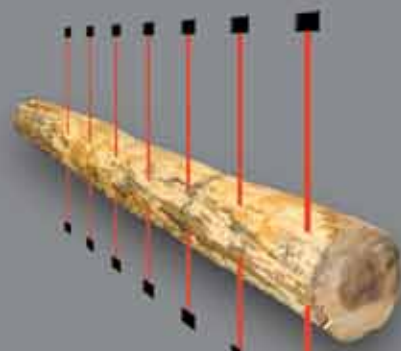


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Carriage optimizer

1



Light Curtain

Discrete photocell pairs at 4", 6" or 1' spacing... detects the log's leading edge as the knees move forward.

Light Curtain - benefits

- Low cost of components
- Low level of technical support required

L4 - 3D Carriage Scanner

Fully configurable in 4' modules

Higher system reliability

- In a 20' system one laser is only a 5% loss in scanning information, not a total loss.
- Lower cost of spares

Multiple sensors = Distributed scanning

- 1 sensor measures as fast as 10 sensors, therefore... measuring an 8' log (16 mS) is as fast as measuring a 24' log (16 mS).

3D Profiles Front Face and Back Face

Front and Back Face sensors are synchronized for 3D profile scanning. (Back Face Scanning can be added later)

- The narrow FOV is unobstructed and able to see between the carriage knees.
- Two cameras per head.
- What one camera doesn't see the other one sees.

2



3



Specifications

Resolution	±0.020" to ±0.060" (±0.5mm to ±1.5mm) over the range
Profiles	every 12" (305mm) snapshot every 1" (25mm) log moving at 300 ft/min (91m/min)
Scan rate	60 profiles/sec (all 4 laser lines)
Configuration	1 to 10 heads (modular design)
Interface	High speed fibre optics link to host board
Output	Digital X,Y,Z data points (3D profiles)
Field of view	31" @ 120" (7.87m @ 3.05m)



Dual cameras allow the L4 Snapshot Scanner to more accurately collect a 3-D log profile, as it can see around irregularities found on all logs. With multiple lasers in each head and high frame rates, the L4 can be used for snapshot scanning to collect "instantaneous" profiles at 12" (305 mm) spacing, or can continuously collect profiles every 1" (25 mm) for logs moving at 300' (91m) per minute.

