

# LIGNOSTATION

Lignostation is a compact, high-resolution system for preparing wood surfaces and recording the tree ring parameters and the wood density. A precision mill prepares the measuring radii on the wood surface. Then, precise scans are obtained using a high-frequency probe. At the same time, optical scans of the surface can be made and analysed in comparison with the image. The entire system is computer-controlled and relieves you of a great deal of time-consuming routine tasks. You attach the sample, define the measuring radius on the PC screen, and Lignostation will do the rest, from preparation up to measurement. You can fully concentrate on the scientific evaluation.

Applications include:

- Dendrochronology
- Density measurement
- Dendroecology
- Dendroclimatology
- Forestry
- Geography

Example of a complete system:

- LIGNOTRIM™: High-resolution surface mill
- LIGNOSCAN™: High-resolution electromagnetic scanner
- LIGNOSCOPTM™: Microcamera scanner
- LIGNOVISION™: Software for tree ring detection and evaluation of the density curves

Flexibility

- Surface treatment: LIGNOSTATION™ + LIGNOTRIM™
- Density analysis: LIGNOSTATION™ + LIGNOTRIM™ + LIGNOSCAN™ + LIGNOSCOPTM™
- Optical analysis: LIGNOSTATION™ + LIGNOTRIM™ + LIGNOSCOPTM™
- Optical and density analysis: LIGNOSTATION™ + LIGNOTRIM™ + LIGNOSCAN™ + LIGNOSCOPTM™



## Specifications

### Benefits

- Direct high-frequency scanning system
- No development of film required
- Automated procedure
- Compact, space-saving system (300 x 100 cm base area/footprint)
- No X-ray emissions
- Moderately priced

### Technical details

- Density measuring using a high-resolution high-frequency probe
- Optical scans using a high-resolution camera
- Sample material: cores or stem disks
- Maximum length of measurement: 450 mm x 450 mm
- Image resolution: less than or equal to 100 microns (= 1/10 mm)