LASER **ABLATION** PROCESS CONTROL

P/N: 550002

FEATURES

- Online monitoring of the Laser Beam Ablation Process
- Detects Paint, Primer, and Base Materials
- Real-time information
- Contactless
- Non-destructive
- CW and PULSED Laser Modes
- Adaptable Detector Configuration
- Closed loop Laser Power Control
- Suitable for all Industrial Laser Beam Sources

The patented LPC Sensor System is intended for process control during laser beam paint ablation. The sensor system integrates with the scanning head and laser source to provide closed loop control of laser energy to the process. The LPC can be integrated with any industrial Fiber, Nd:YAG, Diode and CO^2 laser beam source.

The ablation process is monitored by a sensor(s) (one or multiple) sensitive to different process generated wavelengths. The microprocessor based controller measures the sensor(s) response and adjusts the laser power to match the ablation requirements for the coating under process. This closed loop control activity provides maximum surface ablation while maintaining minimum to zero substrate damage or distortion.

American Laser Enterprises, LLC.
610A West Main St
Pittsboro, IN 46167
Phone: 248-449-3714
Email: info@a-l-e.net
Web: a-l-e.net