LASCON®
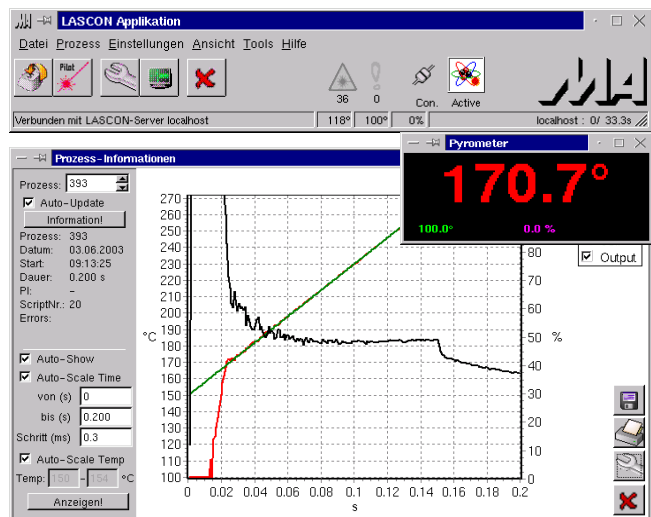
LASCON® is a Laser Controller Software for temperature controlled laser processing.The main applications are laser soldering,laser hardening,micro hardening and laser welding(especially laser welding of plastics)as well as any process,which causes a temperature increase on the work piece,like induction heating.LASCON® controls,optimises and supervises the laser process.Using a simple laser process script programming language,LASCON® is able to decide betwen good and poor laser processes and makes it easy to sort out bad parts in laser supported production.

Special developed hardware components as LPC04 controller with integrated high speed infrared pyrometer,laser processing heads, calibration units and adapters are supported by the software and make integration into machines and factory equipment easy.The whole software package is separated into different units,which communicate via TCP/IP protocol.

The Benefits Of LASCON® At A Glance:

1. Temperature measurement rate and control rate is 0.1ms provided by a realtime operating system.
2. Online grafics for temperature and laser control voltage for long lasting processes (from a few seconds to a few hours)
3. Process data can be stored up to 10.000 data per second to hard disc during laser process.
4. Complete visualisation of process data after the laser process.
5. Digital temperature display.
6. Integrated calibration software for recalibration of the pyrometers, if pyrometers are integrated in laserheads or custom specific setups.
7. Comfortable script editor to define laser processes with the laser process script language. A script compiler is included to control before sending to the kernel. Efficient process language to define and supervise laser processes.
8. 100% control of all laser processes with custom defined parameters. In case of an imperfect laser process, LASCON® creates an error signal to the plc.
9. Storage of up to 500.000 laser processes on internal flash disk.
10. Integation into computer networks via ethernet and TCP/IP protocol.
11. The LPM software can be installed on pc`s, which are connected by ethernet with the controller.
12. Low network traffic by efficient and comfortable commands.
13. Open TCP/IP interface to the control kernel via the server software.
14. Software in german and englisch language.
15. Connection to automation controls via digital 24 V ports , Ethernet or EtherCAT® (option)
16. The software is completly password protected.

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All settings are stored locally on the LASCON® controller, so no connection to a computer is required for operation during production.

Laser Process Manager (LPM):
The Laser Process Manager Software is Windows like and offers in comfortable menues a setting of the parameters, visualisation of the laser process, control of the pyrometers and recalibration as well as writing a process script (optional) in a process script editor. The Laser Process Manager Software can be installed on a PC , which runs under WINDOWS and is connected to the LASCON® controller by Ethernet.

LASCON® - Controller:
As hardware plattform, we offer the controller LPC04 with flash disk and integrated fiber coupled two colour pyrometer or infrared pyrometer. The glas fiber cable has to be connected on the backside of the controller to the pyrometer.