



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

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Liquid Analyzer LA20

The Liquid Analyzer with colour camera was developed to count and classify contaminations in transparent liquid substances. The system is capable to detect particles, fibres and other contaminations and classify them into different colour, size and shape classes.

The Liquid Analyzer consists of a lighting- and camera unit opposite to each other. The liquid is injected by a dosing pump through a flow cell in-between. The 3-CCD colour camera is connected to a high-performance image processing computer.

It is possible to analyse transparent liquid substances for particles above 10 µm. As the camera is installed opposite to the light source, additionally polarized light can be used for fibres detection.

The existing process interface can optionally be configured according to customer requirements. The system offers the possibility to make many individual adjustments which ensures an exact adaptation to special requirements. These can be stored on hard disk. Thus, an unlimited number of adjustments for many different kinds of material can be defined and stored so that changing from one mode of examination to another is considerably easy.



Technical Data

- **Camera**
3-CCD-chip area scan camera
Resolution: from 20 µm (other on request)
 - **Lighting**
Halogen lamp
Power consumption: 150 W
Infrared filter
Assembly dust-protected
 - **Pump**
Flow rate: 30 µl/min - 2,7 l/min
 - **Computer**
Industrial Intel®Core™ 2 Duo
Up-to-date technology
 - **Software**
Operating system Windows XP Professional (latest technology)
Special Image Processing
 - **Physical interfaces**
Ethernet 10/100/1000 M Base T, USB, RS 485, RS 232, digital & analogue I/O
 - **Communication protocol**
MODBUS RTU, MODBUS TCP/IP, OPC, SQL, file transfer (customised), PROFIBUS
Implementation to other Fieldbus-Systems possible
 - **Remote control**
Extender max. 100 m
Service remote control
 - **Size dimension**
(l, w, h) 28 x 78 x 22 cm
(per camera-/lighting unit)
Weight approx. 30 kg
 - **Power supply**
230 V AC/115 V AC, 50/60 Hz
 - **Temperature**
10 – 40 °C
 - **Instrument air: 2 bar**
- Technical alterations are subject to change without prior notice

