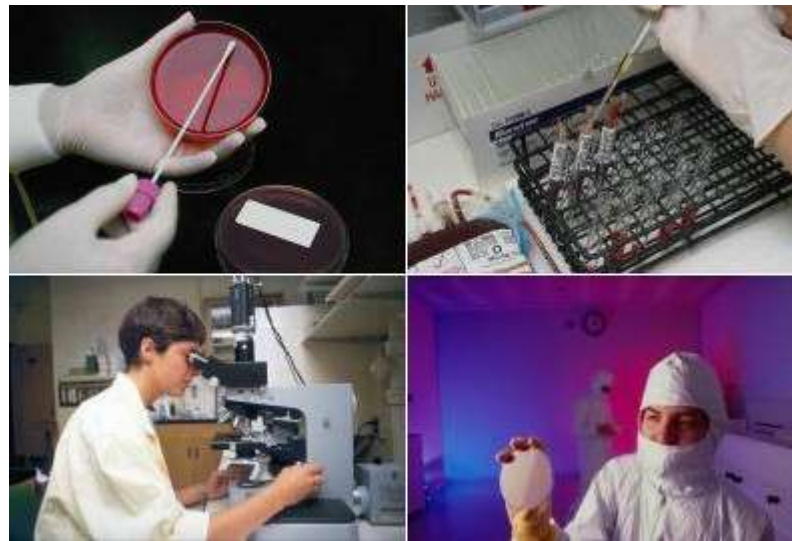




Image Analysis System medeaLAB Count & Classify

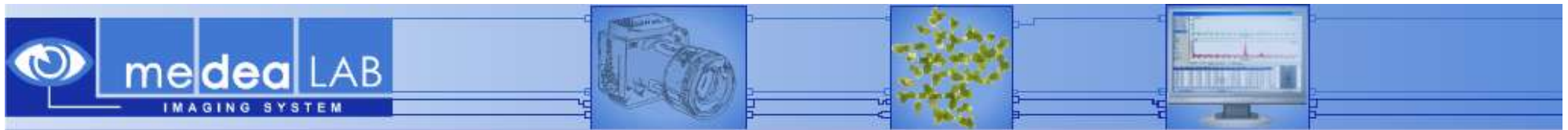


medeaLAB Count & Classify is an image analysis system for colour or greyscale images which is able to detect, count, measure and classify objects.

Due to its flexibility it is used for a wide range of applications in industry and research.

Take advantage of over 20 years of imaging know-how...

Our website <http://www.medealab.de> will give you an overview of medeaLAB applications.



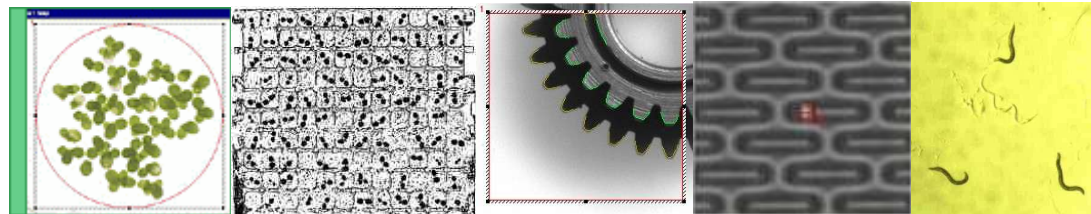
medeaLAB Count & Classify works with all kinds of image sources:

Image files in various formats, analogue and digital video sources (video cameras, VCR, FireWire-, USB- or Ethernet-cameras), still image cameras (remote control of Canon™ and Olympus™ cameras), scanners (TWAIN interface) or video files.

Configurable to your needs:

medeaLAB Count & Classify may be combined with macroscopic and microscopic optics (camera mounted on microscope) due to its calibration capabilities (even perspective transformation).

Processed images may be stored in various formats for documentation purposes (BMP, TIFF, GIF, PNG, JPG, JPEG2000 etc.).



Configuration of thresholds and search parameters is easily done using interactive and automatic methods, object detection is performed automatically. For each object many parameters are evaluated: area, form factor (roundness), mean grey/colour value and variance, center of gravity, main axes, convexity, orientation, length of appendices etc.

For image enhancement medeaLAB offers many user configurable filter functions like smoothing, Laplace-, Median-Edge-filters etc.

All measurements may be carried out repeatedly based on a time schedule or external triggers in order to monitor dynamic changes of e.g. object area (growth rate) or colour (decay).

Features for teachable classification may be chosen from a wide range of object parameters. All measured values and classification results are displayed in spreadsheets and may be exported to Microsoft Excel™ automatically.

The integrated database allows easy management of result data and custom report generation.

Our imaging system also offers many communication interfaces:

Recording data from external sensors via AD/DA converters, data exchange with laboratory management systems (OPC, ODBC, TCP/IP) or integration with PLC systems (Beckhoff™ Automation components, Siemens Simatic™).