Digital microscope

The LAB500 Incorporates a high quality CCD Imaging system and adjustable high-intensity LED lighting to deliver sharp well-lit images from 1 x to 500 x magnification without changing lenses.

One dial operation ensures changing of magnification and focusing is both quick and simple. The systems proprietary LED lighting is arranged in two concentric circles.

By selecting combinations of the LED arrays in the inner and outer rings subject lighting can be optimised so that features can be highlighted or unwanted reflections eliminated to reveal the details you want to see.

Using the integrated LCD screen operating the LAB500 is both simple and intuitive. A freeze button allows simple switching between still images and video mode. In addition to instant display of images and current magnification settings, the LAB500 is also able to call up and display recorded images for comparative tasks.

Should it be required the LAB500 can be controlled, and file transfers, made via it's USB-2 connection to and from an external PC.

Technical specifications

Camera
1 1/8" interline CCD image sensor 2.11 Mp

Number of effective pixels
2.01 Megapixels

Scanning Method
Interlace

Magnification
1 to 500 x calculated with 14" monitor

Light Source
27 High luminance white LED's

LCD Monitor
3.5 TFT color LCD (Led backlight)

Interface
USB-2 - Recomaanded PC/CPU pentium 4 or higher , memory 512 MB or higher.

Recordable Media
SD card

Recordable Formats
BMP/JPEG (still Image)

Software
Measurements between 2 points, angle, area …

Temperature Range
5 ° C to 40 °C.

Power
AC Adapter , AC 100 - 250 V / 12 V - 3A

Optional
Lithium ion battery, Light permeation unit

Magnification	Working distance	Field of view
1 x	460,1 mm	284 x 213 mm
10 x	53,5 mm	28 x 21 mm
20 x	30,9 mm	14 x 10 mm
50 x	17,3 mm	5 x 4 mm
100 x	12,8 mm	2 ,84 x 2,13 mm
200 x	10,6 mm	1,42 x 1,07 mm
300 x	9,8 mm	0,94 x 0,71 mm
400 x	9,4 mm	0,71 x 0,53 mm
500 x	9,2 mm	0,56 x 0,42 mm

Fysische eigenschappen

Dimensions
164 x 220 x 181 mm

Weight
2,1 Kg