



# Time Electronics

## MDM50 Laboratory USB Digital Microscope with Monitor



### DESCRIPTION

The MDM50 combines the functionality of a traditional laboratory microscope with the advantages of newer USB digital microscope technology. Magnification ranges between 20x and 500x in intervals and resolution can be selected from 12MP, 8MP (interpolated) or 5MP and 3MP (optical), depending on quality required and storage space remaining.

Images and videos are stored on a MicroSD card up to 32GB (not included) in .bmp .jpg and .avi formats. Videos have a max frame rate of 32 fps. A rechargeable 3.7V lithium ion battery (800mAh, included) provides 2 hrs of standalone operation on one charge. An AC/DC mains adapter is also included to charge the battery while inside the microscope unit.

A 3.5 inch TFT colour monitor shows live images or stored images and videos that are called up using the microscope's keypad. A slideshow of captured images can also be played with custom intervals between slides. Give live demonstrations via a television or projector using the AV output and minijack to phono cable provided.

The unit is supplied with software that can be used to measure length, area, angle and radius of objects under magnification with an accuracy of 1 micrometre ( $1\mu\text{m} = 1/1000\text{mm}$ ). These measurements can be inset along with any annotations into the final stored image. This functionality makes the MDM50 ideal for quality control purposes.

### FEATURES

- 20x to 500x maximum magnification
- 5.0 megapixel camera (12 megapixel interpolated)
- 3.5 inch TFT colour screen shows live or stored images and videos
- Standalone mode with MicroSD card storage and li-ion battery - no PC needed
- AV output for live demonstrations on televisions and projectors

### SPECIFICATIONS

Optical resolution	5.0 Megapixel
Display	TFT
Video resolution	640 x 480 pixels
Photo resolution	2592 x 1944 pixels
Magnification	10 x to 500x
Outputs	USB 2.0 (PC/7051 connection) / AV output for TV connection
System requirements	Windows® 2000/XP/Vista/7/8/Mac from 10.5 (measuring software only works with Windows).
Dimensions / Weight	103 x 146 x 230 mm / 757g
Supplied Items	Laboratory USB digital microscope, Rechargeable li-ion battery, AC/DC mains adapter charger, USB cable, AV phono cable, Operating manual, Software

### ORDERING INFORMATION

**MDM50** ..... **Laboratory USB Digital Microscope with Monitor**

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.