SCOPEMAN® Series

● SCOPEMAN MSX-500Di

An integrated unit with a small, lightweight,
2.11 megapixel digital CCD microscope.

MSX-500Di

3.5 inch TFT

2 Megapixel CCD

It's NEW

An integrated design featuring a 2.11 megapixel CCD camera and 3.5˝ TFT color LCD monitor.
A standalone unit that allows for viewing and saving images.

YSC Technologies
Tel: 510.226.0889
info@ysctech.com

All your imaging requirements in a single,

A small, lightweight, 2.11 megapixel digital CCD microscope

MSX-500Di

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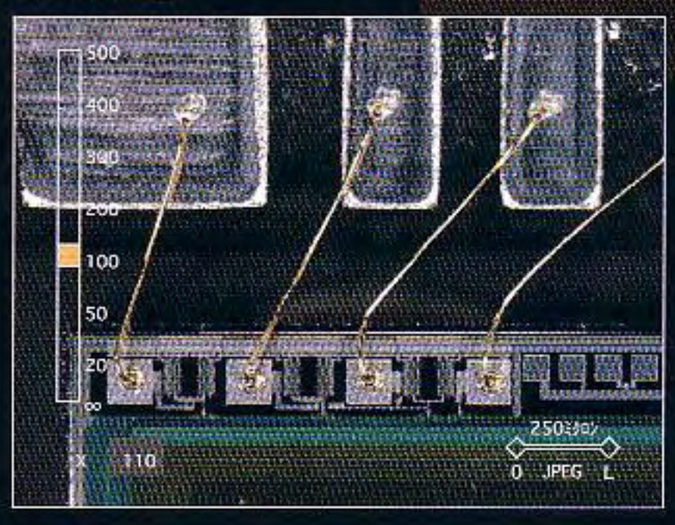
The MSX-500Di digital microscope, with its 2 megapixel CCD camera, features an integrated 3.5" LCD monitor and is a stand alone unit for inspection and saving images. The USB connection allows for image previews as well as camera control and file transfers (for mass storage) with a PC.Lens magnification is ∞ to 500× like the INF-500 Series (magnification calculated on a 14" monitor). Illumination for the unit is in the form of 27 LEDs, which are separated into 7 blocks that can be switched as desired. This allows for optimum lighting for the subject.

Easy operation

Operation is so simple

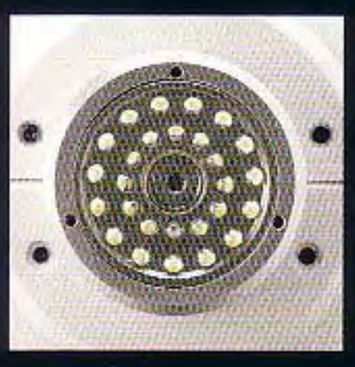
- Screen that instantly displays the current settings
- Digital display of magnification information and auto-scaling.



Picture view

Playback of recorded images

Recorded images can be shown on the display. Each push of the ▷ button will display the next new image, while each push of the ◁ button will display the next old image.

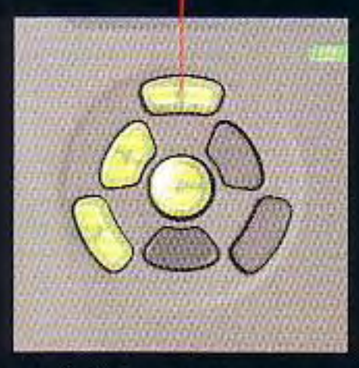


LED Illumination

Free control of illumination

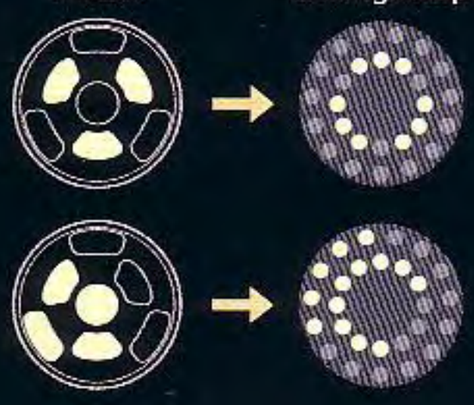
LED illumination can be turned ON/OFF for each block as desired.

Illumination for the unit is in the form of 27 LED lights, which provides the most optimum lighting for each piece of work. Illumination is separated into 7 blocks and can be switched as desired, allowing clear observation of the work.

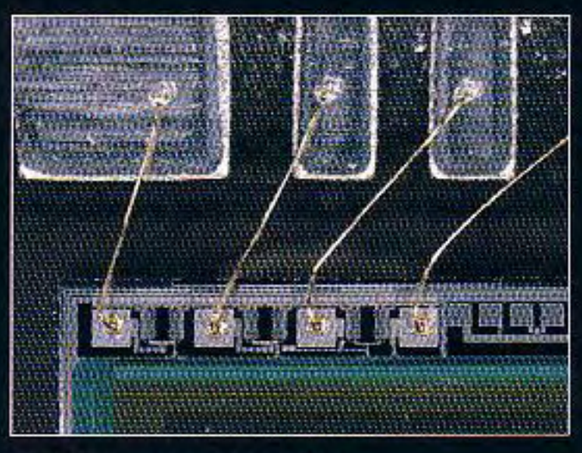


The switch lights up the corresponding section of the LED.

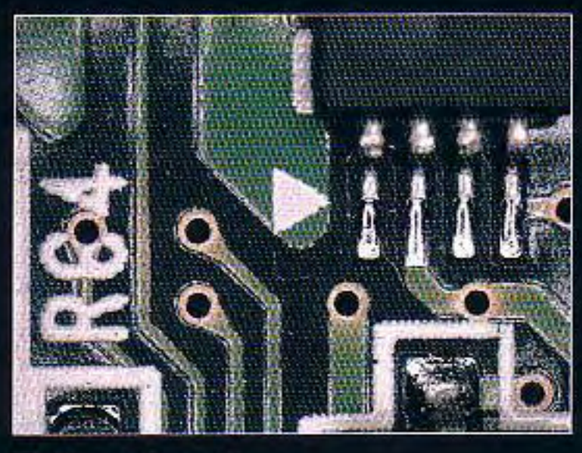
Example



Example of photography



■ CCD camera bonding



■ Circuit board

compact body.

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SCOPEMAN® Series

2megapixel CCD

Features a 2 megapixel CCD camera

Features a high performance 2.11 megapixel CCD camera. Even the finest of details can be imaged clearly.

TFT LCD monitor

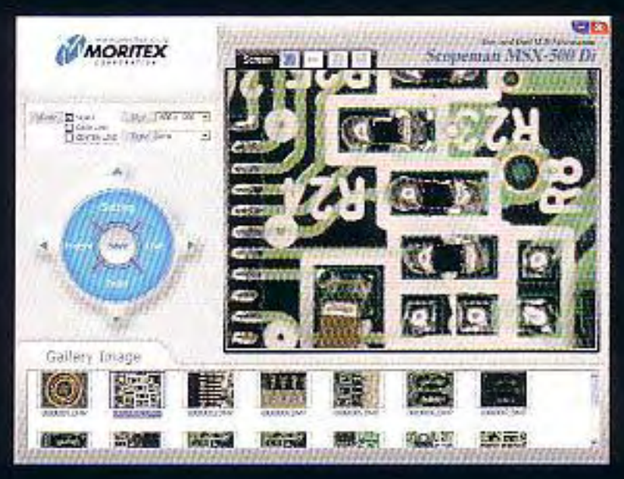
Features an integrated 3.5" LCD monitor

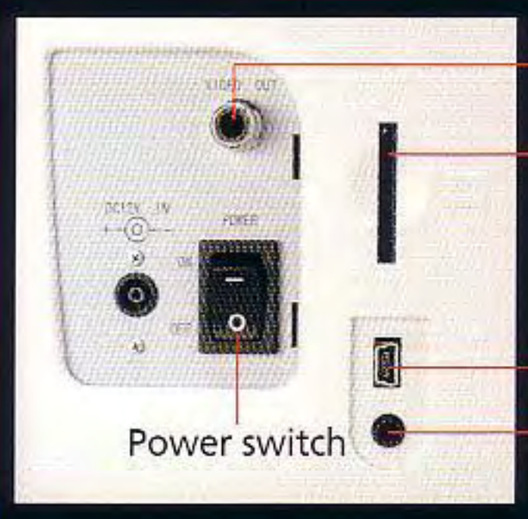
The 3.5" LCD monitor is integrated within the unit to allow standalone imaging and saving of images.

Camera control

The camera can be controlled from a computer

The camera can be controlled (preview function) via the USB connection as well as for file transfers (mass storage function) (available only with Windows XP SP2).





Flash memory slot

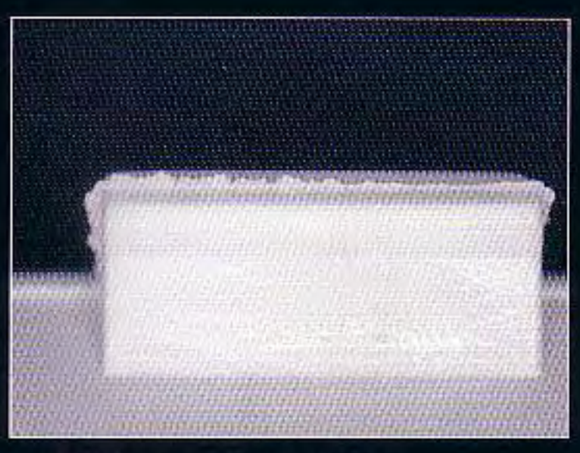
SD card slot available as standard

Highly accurate images can be saved using the SD card slot within the unit. (BMP/JPEG)

Storage size for each image

Symbol	SD card	JPEG	BMP
S	640 × 480	Approx. 130KB	Approx. 900KB
M1	800 × 600	Approx. 190KB	Approx. 1400KB
M2	1280 × 960	Approx. 440KB	Approx. 3600KB
L	1600 × 1200	Approx. 730KB	Approx. 5600KB

The size differs slightly for each image.



■ Welds on a molded item

■ Granulated sugar

■ Plants

■ Capillary vessels in the finger

SCOPEMAN® Series MSX-500Di

PRODUCT SPECIFICATIONS

Product name	SCOPEMAN MSX-500Di
Camera	1/1.8" interline CCD image sensor, 2.11 megapixel total
Number of effective pixels	2.01 megapixel
Scanning method	Interlace
Magnification	∞ to 500× calculated with *14" monitor magnification
Light source	27 high luminance white LEDs; Light up switch/light adjustment function
LCD monitor	3.5" TFT color LCD (LED backlight)
Interface	USB Ver1.1 Mass storage/based on USB Video Class *Compatible with Windows®XP SP2 or higher (Recommended 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 (all manual measurements)
Temperature range	5°C to 40°C
Power	AC Adapter; AC100 – 250V; DC12V; 3A
Optional	Lithium ion battery; Light permeation unit; External freeze switch
Unit size (mm)	164.20mm (width) × 220.72mm (height) × 181mm (depth)
Weight	Approximately 2.1kg (including AC adapter)
Accessories	SD card; USB cable; Video cord; AC adapter; Software CD-ROM; User manual

● Microsoft, Windows® is a registered trademark of Microsoft Corporation of America and other countries.

MAGNIFICATION OF EXTERNAL OUTPUT

Magnification is as follows if a monitor other than a 14" monitor is used.

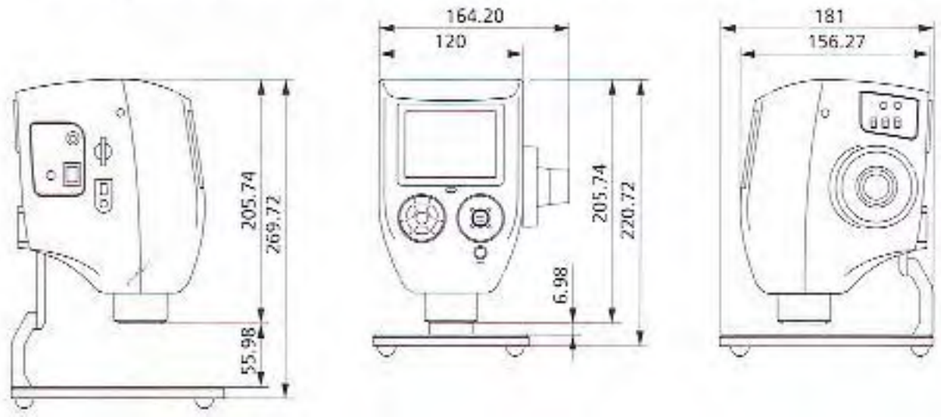
13"	14"	20"
0.93	1	1.43
9.29	10	14.3
18.6	20	28.6
46.4	50	71.4
92.9	100	143
186	200	286
279	300	429
371	400	571
464	500	714

WD/FIELD OF VIEW

Magnification	WD (mm)	Field of View (mm)
1×	460.1	284.059 × 213.921
10×	53.5	28.406 × 21.392
20×	30.9	14.203 × 10.696
50×	17.3	5.681 × 4.278
100×	12.8	2.841 × 2.139
200×	10.6	1.420 × 1.070
300×	9.8	0.947 × 0.713
400×	9.4	0.710 × 0.535
500×	9.2	0.568 × 0.428

FIGURE

(mm)



OPTION

MSX LED Backlight Unit

LED Power Supply Unit
(MLEK-A080W1LR)

MSX PL Filter

MSX Diffuser Filter

Remote-Switch

XY-A Stage

XY-A Stage Adapter
for MSX-Stand

MSX-Stand

IMAGE MEASUREMENT SOFTWARE

Distance between 2 points

Wafer circuit

Vertical distance

Board through hole

Angle

Beads

Radius between 2 points

Board

Area

LCD

Intermediate point

Angle between 2 straight lines

Radius between 3 points

Measurement results

Specifications and design may be improved or changed without notice.

■ Please direct inquiries to the contacts stated below.

YSC Technologies

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