CARSON

zOrb™

Digital Microscope

User Guide
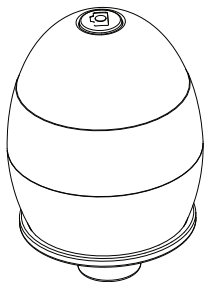
▪ Table of Contents

▪ Important information

Please read this instruction manual carefully before using this product, and retain this instruction for future reference.

Improvements and changes to this text necessitated by typographical errors, or improvements to the software and/or equipments may be made at any time without notice.

▪ Product description

This product is a USB powered device which features an effective magnification of 65x on a 21" computer monitor.

Capture an image to keep with the click of a button. You can even capture close-focus video!

Compatible with Mac and PC.

This item can be used with applications that support the viewing of USB video devices (these applications are not included). USB 2.0 required. No batteries required.

▪ Computer requirements & Software Installation
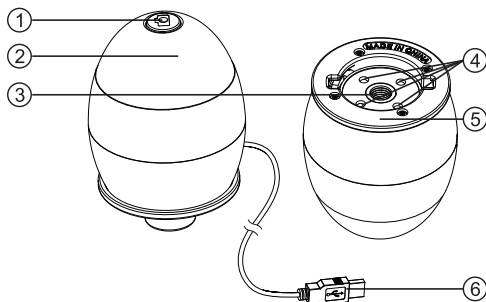
Go to www.carson.com/software to download the latest software and corresponding software installation guide for the MM-480. The computer requirements (operating system, etc.) may be different depending on the software version.

▪ Package contents

1. Digital Microscope   x1
2. Adapter for face/scalp   x1
3. Adapter for nose/ears   x1
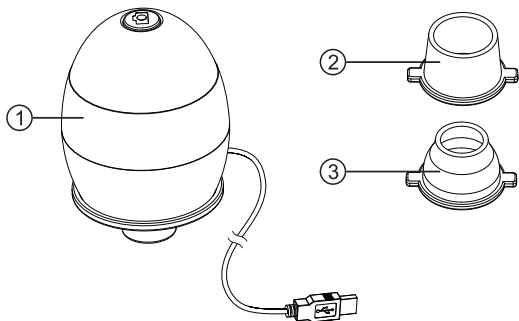
Product overview

1. Shutter Button
2. Focusing Ring
3. Lens
4. LED Illumination
5. Adapter slot
6. USB Cable

▪ Product specifications

Optical Specifications

Effective* Magnification on 4:3 Reference Displays	65x @ 21″ 85x @ 27″
Image Sensor Format	2.0 MPixel UXGA CMOS
Image Resolution	1600 X 1200 Pixels (UXGA)

* Please note that the effective magnification is a combination of the optical system and a high powered digital zoom.

Power Ratings

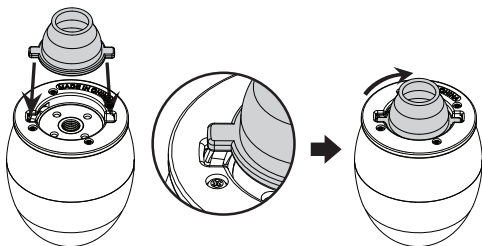|	
Digital Microscope	5V DC 250mA (USB 2.0)

Physical Property

Net Weight	104g
Approximate Dimensions	W50mm × D50mm × H74mm

Operation

To view the images clearly, please use one of the adaptors provided.
Choose an adaptor, place it into the adaptor slot located under the main body. Lock by turning in clockwise direction.


▪ Connecting the device

Connect the device to the computer using the USB cable provided. The LED light will turn on indicating that the device is powered on.

When the device is connected to the computer for the first time, a driver will automatically be installed by Windows or Mac OS. This process could take up to a few minutes.

▪ Focusing

Rotate the focusing ring clockwise or counterclockwise until the viewing image shown on the monitor is clear and sharp.
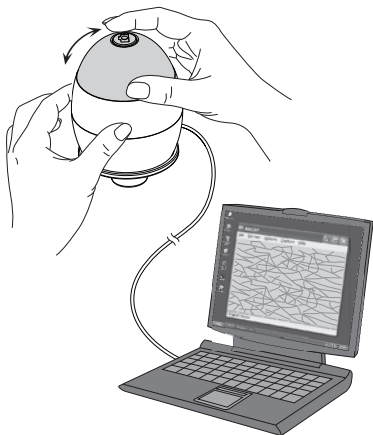
To capture an image, press the shutter button on top of the zOrb.

▪ Using the xploview software

The following buttons are available:

	Clicking this will open the **system settings** menu (see next section).
	Clicking this will **capture** the on screen image of the device.
	Clicking this will activate or deactivate the **timed shot** feature. When activated, images will be captured at a regular interval.
	Clicking this will activate or deactivate the **video recording** feature.
	Clicking this will show the copyright and version **information** of the application software.
	Clicking this will **shut down** the application software.

System settings menu

The first time the xploview software is started, the default settings will be loaded, you may change these settings manually in the system settings menu.
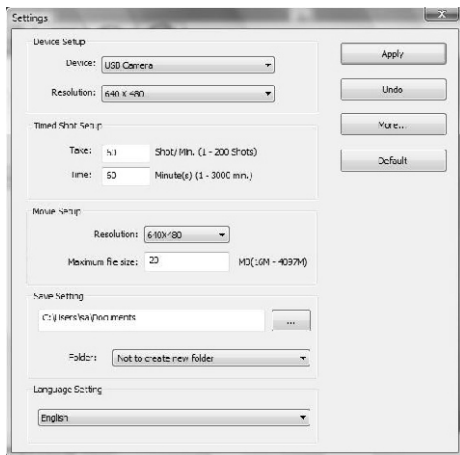
■ Device setup

If the image captured by the Digital Microscope was not displayed by default, you can change this by selecting it from the "Device" drop-down menu.

The resolution of images you capture can be changed from the "Resolution" drop-down menu.

■ Timed shot setup

The frequency and duration of automatic images capture can be adjusted under this option.

■ Movie setup

The resolution of videos you record can be changed from the "Resolution" menu. You can also set a maximum file size for each video.

■ Save setting

The default location for captured images or videos can be changed under this option.

■ Language setting

The language of the xploview software can be changed under this option.

▪ Advanced settings

By clicking the "More..." button on the right of the system settings menu, you will be able to manually adjust all of the image settings. Note that the settings available may be different, depending on your operating system.
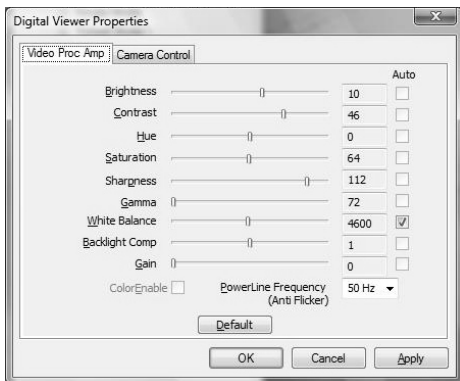
▪ Saved files

With the xploview application software opened, you can locate the saved files folder by clicking the "More..." button located on the left of the main software window.

▪ Full screen

To activate the full screen mode, click the full screen button located on the bottom right hand corner of the xploview application software window.

To exit full screen mode, either double click on the screen, or press the "Esc" button on the keyboard.

▪ Care and maintenance

➢ Keep the device dry and protect it from water or vapour.

➢ Do not leave your device in a place with an extreme high or low temperature.

➢ Do not touch the device with a wet hand as it may damage the device, or cause an electric shock to the user.

➢ Do not use or store the device in dusty, dirty areas as its moving parts may be damaged.

➢ Do not use harsh chemicals, cleaning solvents or strong detergents to clean the device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

▪ **Warning**

➤ Do not place lighted Digital Microscope upon the eye, doing so may cause permanent eye damage.

➤ Do not attempt to open or dismantle the Digital Microscope.