



# Handheld Digital Microscope (HDM)

## A Breakthrough in Microscope Technology

- A serious instrument – not a toy! And easy to use!
- New state-of-the art technology in microscopes means you don't need a traditional microscope to view and/or image specimens or objects.
- Image what you see with the click of a button for snapshots or video with the provided software or use your own photo/imaging software programs.
- Built-in digital camera for viewing and imaging.
- 20x (low power) or 400x (high power) to choose from.
- Built-in LED illumination provides bright and sharp viewing and imaging.
- Powered by a USB2.0 cable from your PC or laptop.
- Very portable – 5" x 1 3/8" (127mm x 35mm) and weighs just 3 oz. (85gr).



HDM attached to a laptop

Below is an example of the type of visual or image magnification (power) the HDM is capable of providing. From left to right is an image at 1x with a digital camera (18" or 37mm away), 20x with the HDM, and 400x with the HDM.

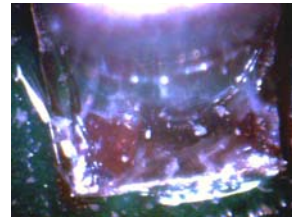
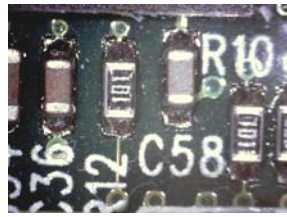


### What Uses Are There for the HDM?

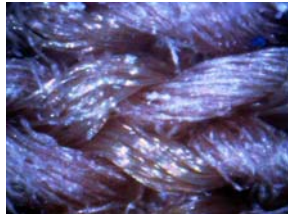


- Hobbyists – gems, coins, stamps, collectibles, relics, etc.
- Consumers – adults and children for learning and discovery of the world around them from plants, insects, prepared slides, rocks, foods, etc.
- Teachers & Students – for individuals or groups in the educational process at all levels covering chemistry, biology, botany, and many other fields.
- Industry – inspection of electronic assembly components and many different materials such as metals, plastics, textiles, etc. Used by jewelers, geologists, printers, breweries, miners, and in many other industries.
- Medical – dermatology, dental, and veterinary use. Examinations in doctors offices. Used in many different medical fields from medical schools, medical labs, and hospitals.
- Government – many different areas for public health and safety such as forensics, lab work, pharmaceuticals, water quality, forgeries, military work, etc.
- Science – uses in the fields of archeology, oceanography, metallurgy, etc.

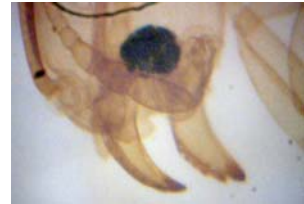
Below are more examples of some of the things you can do with the Handheld Digital Microscope.



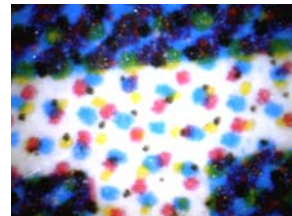
Printed Circuit Board – left to right 1x Digital Camera, 20x HDM, and 400x HDM



Shirt – 20x HDM @ left and 400x HDM @ right



Prepared Slide of an Ant – 20x HDM @ left and 400x HDM @ right



Catalog Cover Page – left to right 1x Digital Camera, 20x HDM, and 400x HDM

#### Computer Requirements:

- Operating Systems – Microsoft Windows 98/2000/ME/XP and Vista  
Apple Mac V10.3 and newer driver can be downloaded from Celestron website
- CD or DVD Drive
- USB Port Available

#### Specifications of Handheld Digital Microscope (HDM) – Model # 44300

- Digital Camera – resolution 0.3mp using a 1/4" CMOS chip (640x480 pixels)
- Video Frame Rate – 15 or 30fps
- USB2.0 Cable – interface to PC or laptop
- Magnifying Powers Available – 20x and 400x
- Field of View – 2.1degrees (7.5mm) @ 20x and 0.4degrees (1.0mm) @ 400x
- LED Illumination – white light
- Operating Range & Storage Temperature – 5 to 122 degrees F (-15 to 50 degrees C)
- CD-ROM – installation of the HDM driver and software for Windows OS
- Size – 5" x 1 3/8" (127mm x 35mm)
- Weight – 3 oz. (87gr.)
- Warranty – two year limited
- CE/FCC/RoHS Compliant
- Made in China



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