

## Metallurgy

Visual inspection of metal surfaces has never been easier or more affordable than with the new HandiScope™ hand-held portable microscope. The unique design of the HandiScope™ allows for the examination of metals either in the laboratory or in the mill itself. The metal under examination can be viewed from different angles without having to rearrange complicated stands. The 20x/50x selectable magnification lens with the built-in high intensity light source enables detailed examinations of the smallest areas to be achieved. For items requiring more detailed magnifications, 100x and 200x lenses are also available as options.

The video output allows for real-time viewing on any video input device such as a TV or LCD projector. The image can be “freeze framed” on the monitor for closer inspection or for discussions with operations or quality control. It is also ideal for use as a visual aid during training classes giving real-time images of the subject matter being discussed.



Pitting on Flange Face

The optional iCapture software allows the user to perform measurements of the image, insert annotations and enhance and rotate the image for better viewing. For documentation purposes the images can be downloaded and stored as standard BMP, JPG, TIF, PNG or GIF files.

#### Specifications:

Image Capture Element: 1/4" CCD with Complimentary Color Filter  
Total Image Element: 811(H) x 507(W)  
Refresh Rate: 30 Frames/second  
Magnification: 20x/50x Selectable  
Viewing Area (mm): 14x10.5/6x4.5  
Lighting: Internally Contained, 8 White LEDs  
Focus Distance: 0mm (contact) or 26mm (non-contact)  
Output: Standard NTSC, VBS IV[p-p]/75 ohm  
Interface: Standard RCA  
Power Supply: 5V, 3A output  
90-250 V, 50-60Hz AC Input  
Dimensions: Approx. 9 inches long x 2 inches diameter  
Weight: Approx. 0.5 pounds

#### Applications:

- Quality Control
- Operations
- R&D
- Documentation
- Training



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