Features:
- Ideal tool for production inspection
- High resolution video and CCD camera
- Adapters to fit all fiber optic connectors including MT’s and bare fiber
- All Models include X-Y axis centering
- All Models are equipped with 5x, 10x, and 20x objectives
- Adjustable Optispec® Blue LED Illumination
- Available in NTSC and PAL formats
- A variety of options and custom configurations are available
Description

Designed and manufactured by Micro Enterprises Inc., the Optispec® ME2500 is a highly versatile video microscope ideal for large and small fiber optic cable assembly companies. Equipped with a high resolution CCD camera and high quality optics, the ME2500 produces a detailed image of the end face allowing the operator to quickly spot scratches and other defects. Light scratch detection is further enhanced by the recent addition of a near UV LED light source. All three models accommodate standard connectors including multi-fiber connectors. Custom stage configurations are also available to meet special requirements in the production area.

Model Configurations

- **ME2502**
  - X-Y axis stage with .125" travel in each direction
  - Utilizes threaded adapters

- **ME2502 APC**
  - X-Y axis pivot stage with .125" travel
  - Pivot ability up to 12 degrees for APC inspection
  - Utilizes threaded adapters

- **ME2503**
  - 4 position linear slide with quick release latch
  - Precision knob provides .25" travel on the x axis
  - Includes 4 height adjustable connector adapters

- **ME2510 Bare Fiber Model**
  - Convenient fiber gripper
  - Fully adjustable stage with X,Y,Z and tilt controls

Specifications

- **Illumination**
  - Near UV Optispec® Blue LED illumination

- **Optics:**
  - Long Working Distance Objectives
  - LWD M5x 21.00mm W.D.
  - LWD M10x 12.30mm W.D.
  - LWD M20x 12.20mm W.D.

- **Video:**
  - High Resolution 1/2" CCD Camera
  - Pixels 768 x 494 570 TV lines/ Monochrome

- **Power Requirements:**
  - MP2505 90-240VAC Power Supply

- **Dimensions:**
  - Length: 18" (45.7cm)
  - Width: 9.5" (24.1cm)
  - Height: 7" (17.8cm)
  - Weight: 7 lbs. (3.2 kg)

Video and Optical Magnifications

- **LWD Obj.**
  - 5x
  - 10x
  - 20x
  - 40x (optional)

- **Optical Magnification**
  - 50x
  - 100x
  - 200x
  - 400x

- **Approximate Optical Resolution (um)**
  - 2-3.5
  - .8-1
  - .6-.7
  - .45-.5

- **Approximate Video Magnification**
  - Monitor Size:
    - 9" Mono. 160x 320x 600x 1250x
    - 12" Mono. 200x 440x 880x 1725x
    - 17" Mono. 275x 575x 1150x 2300x

Options

- **Illumination:**
  - MP2516 5v Tungsten Lamp

- **Optics:**
  - LWD M40X 6.80mm W.D.
  - 10x DI non-contact interferometer
  - 20x DI non-contact interferometer

- **Video:**
  - 9" Mono. 117VAC / H Res. 800+ Lines
  - 12" Mono. 117VAC / H Res. 800+ Lines
  - 17" Mono. 117VAC / H Res. 800+ Lines
  - 14" Color 117VAC / Res. 500 Lines
  - 14" Color 117VAC / H.Res. 600+ Lines
  - 12" Mono. 220VAC / CCIR / PAL

- **Cameras:**
  - 2/3" CCD Mono. / High Res. 570 Lines
  - 1/2" CCD Mono. / High Res. 570 Lines
  - 1/2" CCD Mono. / CCIR for 220V
  - 1/2" CCD Color / Res. 470+ Lines
  - 1/2" Digital USB 2.0

Order information can be provided by calling (770)447-4077 or by contacting us by e-mail at sales@microenterprises.net

Warranty period 1 year from date of purchase to include parts and labor. Shipping costs are not included.

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