

Digital Filar Eyepieces With Digital Readouts



The Boeckeler digital filar eyepiece requires a digital readout with scaler.

APPLICATIONS

To digitize a filar eyepiece, Boeckeler replaces the mechanical positioner of a filar eyepiece with a digital positioner. A digital filar eyepiece can be used as a direct replacement for most mechanical filar eyepieces for many applications including:

- Measuring small parts
- Measuring layer thickness
- Measuring cross sectional samples
- Measuring features on a slide

FEATURES

Boeckeler's digital filar eyepieces offer many advantages, including:

- Extremely high resolution.
- Single-axis field of view measurement.
- Ability to easily read the measurements on a digital display.
- Non-rotating spindle for optimum accuracy.
- Zero reset on digital filar and digital display.
- Ability to directly record measurements on a printer or computer.

||| DIGITAL READOUTS

The digital filar eyepiece requires a Microcode II™ one-axis digital readout with scaler (1-MS). This readout has two display modes. First, it can display the individual increments (unscaled counts) generated by the digital filar. Second, it can multiply the unscaled counts by a scale factor and display the corresponding measurement. The relative or absolute zero switch allows a temporary zero without losing an absolute zero reference. An optional RS-232 data port is available to provide data output to a printer or computer. Other options include a tilting base and a dual voltage power supply.

||| SPECIFICATIONS

Boeckeler Instruments, Inc., digitizes a variety of customer supplied filar eyepieces including filar eyepieces by:

Unitron
Bausch & Lomb
Leitz
Zeiss
American Optical
Toyoda
Olympus
Wild
Nikon

The digital positioners Boeckeler uses to digitize filar eyepieces have between 15,000 and 19,000 increments over the total length of travel. Since Boeckeler custom designs digital positioners for each digital filar, the actual number of increments varies depending upon the manufacturer and model number of the customer supplied filar eyepiece. If the digital filar has 15,000 increments and the system magnification results in a 0.015" field of view, then a digital filar will yield resolution of 0.000 001".

The model number to digitize a customer supplied filar eyepiece is CDF.

Your Boeckeler Dealer:



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