

Digital Optical Micrometer Kit

Digital Optical Micrometer 8400K



Telemeter Electronic

A maintenance tool specifically designed to quickly and effectively determine the severity of surface damage.

Exact and repeatable.

Very specific tolerances often apply to surface damage and exact measurements are essential to determine if a part should remain in service. The 8400K allows "repair or replace" maintenance decisions to be made with absolute certainty, and backed up with precise measurement data.

Eliminate Guesswork.

Quickly and confidently perform visual inspections and make real assessments of damage severity. Avoid using substandard parts or scrapping parts that are still within safety and tolerance limits.

Portable and Versatile.

The kit has interchangeable bases and lenses for use on almost any surface, including transparencies and composites. Use one tool to inspect many types of damage; corrosion pitting, scribe lines, bubbles, crazing, and scratches on parts.

Simple Operation.

Unlike analog models, the 8400K is repeatable and requires no manual calculations. The digital LCD display is easy to read and toggles between inches and millimeters. Optional accessories allow data to be exported to a PC or handheld device.

Applications

Inspect Damage on:

- Windshields
- Canopies
- Fuselage Skins
- Shafts, Masts, Rotors
- Mechanical Parts
- Leading Edges
- Propellers
- Composites



Technical Data

Dimensions & Weight	
Micrometer with Base	3" DIA x 9"H, 1.5 LBS
Kit in Case	13"L x 11"W x 6"H, 7 LBS
Accuracy	+/- 0.0005"/0.01mm
Range	0.25" (10X), 1.2" (4X)
Resolution	0.0005"/0.01mm
Repeatability	0.0005"/0.01mm

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Digital Optical Micrometer 8400K – How it works



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Simple operation produces quick, precise and repeatable surface damage measurements - without manual calculations.

The 8400K measures the distance between two points, or regions of interest (ROI). Clear, accurate results are produced in three easy steps.

Step one is to focus on the first ROI, generally the good surface next to a scratch or pit. When the first ROI is in sharp focus, the display is set to zero with the touch of a button. The last step is to focus on the second ROI, the bottom of the scratch or pit. When the second ROI is in sharp focus the depth of the scratch, the distance between the two points, is shown on the digital LCD display.

Read and record the results - or export directly to a PC spreadsheet or hand held processor (requires optional accessories). It's that easy and takes less than a minute!

Advantages

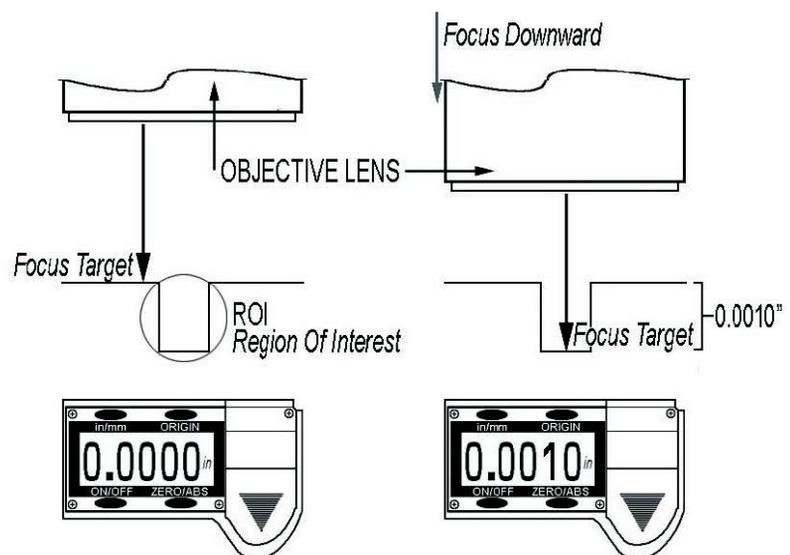
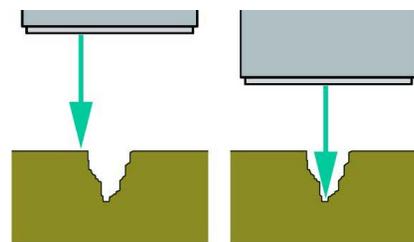
- Fast, accurate and repeatable measurements of surface damage to parts.
- Replace the "fingernail test" with a precise tool and make maintenance decisions with confidence.
- Save Time and Money. Quickly determine the severity of damage. Avoid scrapping parts that are still within tolerance limits.
- Read and record results easily from clear digital LCD display, or export directly to a PC.
- Improve traceability, quality control and monitor trends over time.

Accurate Results in 3 Steps:

Step 1 – Focus on 1st Target

Step 2 – Set Display to Zero

Step 3 – Focus on 2nd Target



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Equipment – Microscope Digital Camera 3300 C



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The first eyepiece with the high quality Edge Series class optics and high-resolution sensor, the 5MP offers remarkable image performance while providing a relatively larger field of view than its predecessors. The camera design and included adapters allows for fitment within 23 mm, 30 mm, 30.5 mm or c-mount eyepiece slots which can be fixed into ideal focal positions. With fine color reproducibility, the camera is capable of capturing the finest details of a microscope's view for a wide range of professional applications.

This unit is fully compatible with Windows 7, 8, 10 & Mac OS 10.5+ including 32-bit and 64-bit systems with simple setup USB 2.0. You can use simple tools to draw lines, shapes, and text annotations on the image. Calibrate and measure dimensions including lines, circles, and angles. There are also a lot of save formats possible.

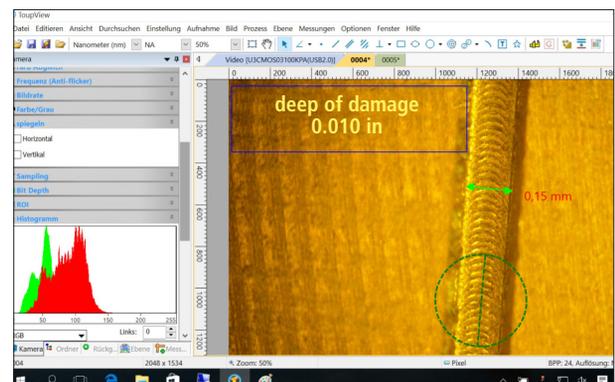


Advantages

- Combination with Optical Micrometer 8400 K and accessories
- Store and document the pictures
- Take videos
- Edit the pictures with the software
- Evaluate the surface together with the team
- Language Options (25)
- Barcode reader

Technical Data

Sensor	CMOS (Color)
Resolution	2592 x 1944 Pixel
Megapixels	5 MP
Package includes	Camera, Edge Calibration Target
Frame Rate	30 FPS
Cable Length	182 cm



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Equipment



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Replication Kit 4400M

If you want to measure with the Optical Micrometer at awkward locations than the Surface Replication Kit 4400M is a suitable tool. With the two components compo from a manual glue pistol you are able to make a replicate and can measure and archive it. You can use it for several industrial applications.

Advantages

- No dismounting necessary
- Save money and time
- Very precise
- Fast drying time

Features

- Replicate surfaces
- Generate a negative of a damage
- Exact copy through compo
- Measure with Optical Micrometer 8400K



LabStand 5500L

The Lab Stand 5500L is an optional accessory for the Optical Micrometer 8400K. It is not possible to measure every shape with the Micrometer. But with the Lab Stand system in combination with the Micrometer you can diagnose small and shapeless objects.

Advantages

- Fixed position
- Fine adjustments
- Very precisely
- Easy handling

Features

- Optional Accessory of the Optical Micrometer 8400K
- Allow to measure shapeless things
- No influence to the features of the Micrometer



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