Macroscope 45

PRODUCT MANUAL

Item # 2852

Spectrum®
Technologies, Inc.

MACROSCOPE
PORTABLE MICROSCOPES

Thank you for purchasing a MACROSCOPE 45.

MACROSCOPE portable microscopes are designed to fill the need for superior image quality in simple, cost effective configurations for application in research, production, quality control or wherever superior image quality is essential. MACROSCOPE portable microscopes represent a significant departure from current day trends towards more sophistication and more elaborate features. Instead, they offer a simple, basic design and an ease of use not found in today's laboratory microscopes but without compromising optical or mechanical quality. The MACROSCOPE 25X and MACROSCOPE 45X units produce images superior to most laboratory instruments in resolution, contrast, brightness and field of view but at only a fraction of the cost.

The MACROSCROPE 45x is a fixed magnification unit that is equivalent in performance to instruments costing thousands of dollars but is much quicker and easier to use. The 45x Macroscope is ideal for disease diagnosis on turfgrass plants.

For customer support, or to place an order,
call Spectrum Technologies, Inc. at
(800)248-8873 or (815) 436-4440
between 7:30 am and 5:00 p.m. CST
FAX (815)436-4460
e-mail: info@specmeters.com.

Focusing Instructions

The assembled MACROSCOPE 45 has two knurled focus adjustment knobs—one located at the top (eyepiece) and the other located on the close-up attachment. The focusing procedure is as follows:

1. Adjust the eyepiece focus knob (top of macroscope) until the reticle is as sharp as possible, disregarding the image of the object.
2. After the reticle is sharp adjust the close-up focus knob (bottom of macroscope) until the image of the object is sharp.

Measurement Scale

The measuring reticle visible through the macroscope lens has a relative scale marked from 1 to 5 (see below). Because the macroscope can also be used to gauge the distance to far-off objects, the conversion to actual length units is dependent on how far the lens is from the object being measured. For measurements taken close up from objects sitting on a table top, multiply the scale reading by 1/32 to get the length in millimeters or by 1/832 for inches.

For example, if an object was 35 scale marks, the actual length would be:

35 * (1/32) = 1.1 mm

or

35 * (1/832) = 0.04 inches

Warranty

This product is warranted to be free from defects in material or workmanship for one year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident, or unauthorized modifications, or to incidental or consequential damages beyond the Spectrum product. Before returning a failed unit, you must obtain a Returned Materials Authorization (RMA) from Spectrum. Spectrum is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company.

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