



STEINDORFF®

Portable Metallurgical Microscope

Model: NYMCS-605 / NYMCS-606

Instruction Manual



This manual is written for portable metallurgical microscope NYMCS-605, NYMCS-606. To ensure the safety, obtain optimum performance and to familiarize you fully with the use of this microscope, it is recommended strongly that you study this manual thoroughly before using the microscope and retain this manual in an easily accessible place near the work desk for future reference.

NEW YORK MICROSCOPE COMPANY INC.
AKA **MEL SOBEL MICROSCOPES**

100A Lauman Ln., Hicksville, N.Y. 11801 Toll Free: (877) 877-7274 • Fax: (516) 801-2046
Web Site: www.microscopeinternational.com • www.nyscopes.com • E-mail: Info@nyscopes.com



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1. Introduction

NYMCS-605, NYMCS-606 portable metallurgical microscope is convenient for on-site materials structure identification of various metal and alloy which cannot be identified by making samples. It can be widely used in the metallurgical Laboratories for the metal materials analysis, materials processing identification and the metallographic structure analysis. It also can be used for jade, porcelain, bronze surface tissue structure observation and analysis.

NYMCS-605, NYMCS-606 uses LED vertical illumination, it is portable, convenient to use and safety. Optional magnetic base is available, convenient for observation of large pipes and equipment.

This illumination can be used continuously for forty hours after a charge, long working time, save energy, temperature rise is small, there is not much heat, safe to use.



Magnetic Base

(Optional for NYMCS-605, standard for NYMCS-606)

Digital cameras can be used with this microscope to facilitate the acquisition, preservation and image analysis.

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2. Specification

(1) Objective

Type	Magnification	N.A.	System	WD(mm)
LWD Plan Metallurgical objective	PLL10X	0.25	Dry	7.3 mm
	PLL50X	0.70		0.5 mm

(2) Eyepiece

Type	Magnification	Field Diameter
Plan Eyepiece	10X	Ø18 mm
	12.5X (optional)	Ø13 mm

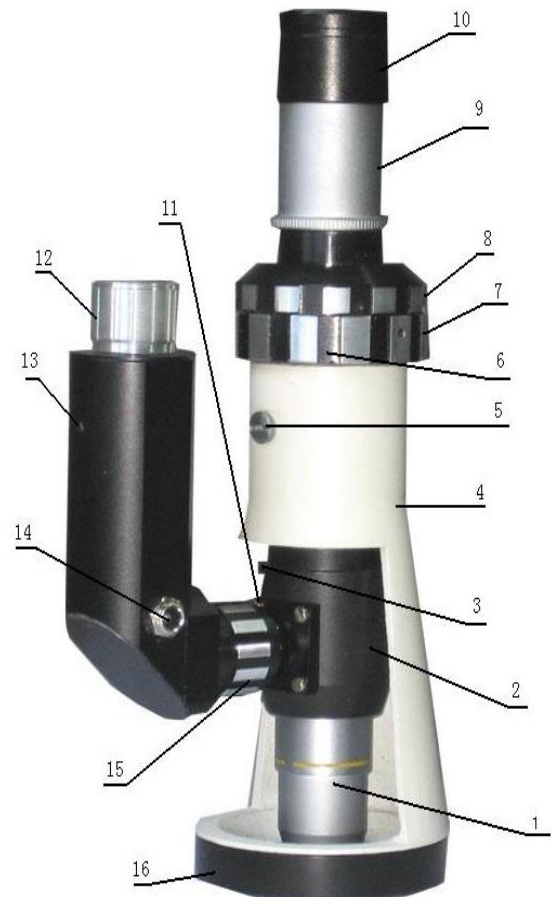
3. Parameters

- (1) Total magnification: 100X, 500X
- (2) Tube Length: 160mm
- (3) Focusing distance: 25 mm
- (4) Voltage: 3.6V
- (5) Microscope Dimension (H×W×L): 230×110×70 mm
- (6) Microscope weight: 750g

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4. Structure

- (1) Objective
- (2) Objective base
- (3) Polarizer slot
- (4) Microscope Body
- (5) Focus stop screw
- (6) Coarse limit screw
- (7) Coarse adjustment knob
- (8) Fine adjustment knob
- (9) Eyepiece tube
- (10) Eyepiece
- (11) Analyzer Slot
- (12) Illumination switch
- (13) Power indicator.
- (14) Recharge input port
- (15) Illumination connector
- (16) Microscope Base



5. Operation

According to the diagram shows, plug the eyepiece 10# into the eyepiece tube 9#, screw object lens 1# into the lens holder 2#. When install the objective, users can remove the microscope base 16# and then screw it on. Then place the treated metallographic specimen in the microscope base and adjust the focus knob to start observation, please turn on the power switch 12#, brightness can be adjusted freely according to needs.

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When use the magnetic base, please remove the 16# microscope base and screw the microscope on the magnetic base, then you can use the magnetic base to attach the microscope on a pipe or large equipment. You can change the screw on the magnetic base to make the magnetic base work or not.

The instrument adopts DC 3.6V lighting power, LED lamp, compact structure, safe and convenient.

The microscope can work for five days after one time electric charge, there is an indicator light for charging, red light indicates charging status, green light means power is sufficient, the charging time is about 2 to 3 hours.(the general charging time cannot be more than 8 hours)

The electrical part of the microscope is safe, reliable and seldom has failure. If the indicating light cannot on, the LED illumination also cannot work even after charging. Please remove the electrical part from the microscope and send it back to the manufacturer for repairing. Please do not t repair by yourself to prevent accidents.

6. Maintenance

- (1) After using of eyepiece and the objective lens, please use absorbent cotton or wiping paper with a small amount of mixed ether and alcohol (3:1) to gently wipe the surface dust and dirt.
- (2) To prevent dust effects the microscope imaging quality, please use a plastic bag to cover the microscope when it is not in use.
- (3) Please avoid the microscope to contact with acid, alkaline gas, the microscope also should not be placed in damp, cold and hot environment so as not to affect the optical body quality and the service life of electrical parts.
- (4) The lubricant oil in the microscope is special, generally do not have to add, after long-term use, the oil may dry and no lubrication. In order to guarantee the quality and precision of the instrument, please send to the microscope back to the factory for repairing or contact the manufacturer.

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7. Outfit

Item	Description	Quantity	Note
1	10X Eyepiece	1	
2	10X Plan Metallurgical objective	1	
3	50X Plan Metallurgical objective	1	
4	Illuminator	1	Installed on the microscope
5	Charger	1	
6	User Manual	1	

8. Optional Accessories

(1) 5X, 20X, 40X, 60X Plan Metallurgical Objective

(2) CCD/CMOS video adapter

(3) DSLR photo adapter

(4) Magnetic base (For NYMCS-606, it is standard)

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