

LMI-3000 Series Inverted Microscope System



Version 2.0

Brochure

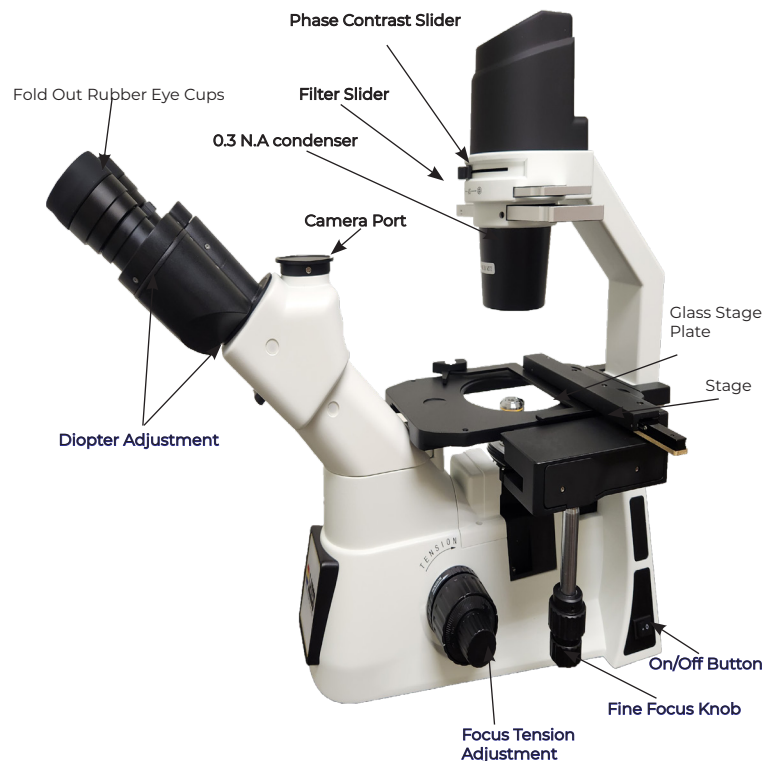
INTRODUCTION

LAXCO has been a leading provider of high precision, cutting edge optical instruments and microscopes for over 30 years. Our products span a complete range of applications including education, clinical, life science research, and industrial. Our commitment to engineering excellence, breakthrough innovations, and cost effective solutions, makes us one of the most reliable suppliers in the industry. Our products come with a heritage of technical strength, manufacturing discipline, and a prominent reputation of advanced engineering. We currently hold over 15 patents for lighting, design, and technology and our designs incorporate numerous innovative features, address issues others may overlook, and come with a strong industry-proven reputation. Product development is based in Washington State with electrical, mechanical, and optical engineers on site.

Introducing Laxco's LMI-3000 Inverted Microscopes, where precision observation meets cutting-edge technology. Engineered for versatility and efficiency, our LMI-3000 series is designed to elevate your microscopy experience in research, education, and routine laboratory tasks. With an ergonomic and robust design, these microscopes accommodate a wide range of specimens, from critical live cultures to large specimens and reactions. Practical for every laboratory environment, our LMI-6000 series is the ultimate solution for your microscopy needs.

KEY FEATURES

- Color Corrected Infinity Optical System
- Optional Mechanical Stage for Precise Sample Control
- Compact Stand Design
- LED Transmitted Illumination
- Trinocular Head for Imaging Applications



OPTICAL SYSTEM

- Infinity corrected optical system
- Plan Achromatic and Plan Fluorite LWD objectives
- Wide range of magnifications: 4x, 10x, 20x, 40x, 60x
- Anti-reflective coatings on optics
- Sharp images with color corrected optics
- Parcentered & Parfocal objectives



STAND

- Large, sturdy base designed for the research lab environment
- Sturdy base designed for the research lab environment
- Attachable X/Y mechanical stage
- Coaxial focus drive, 2 μm precision
- Quadruple nosepiece
- 5w LED transmitted illumination
- N.A. 0.3 condenser, working distance 72mm, removable
- Phase contrast slider
- ECO IR Senso

TRINOCULAR OBSERVATION HEAD

- Integrated trinocular photo port
- 10x magnification, with 22mm wide field eyepieces w/eyecups
- 50 to 75mm interpupillary distance
- 100:0 / 0:100 image split
- 45° inclined head, 360° rotating

CAT . NO.	HEAD	OBJECTIVES	OPTICS	FOV	F-CONTROLS	KOEHLER	CONDENSER	ILLUM	STAGE	OBJ TURRET
LMI6PH1	TRINOC	4X, 20X LWD PLAN PH	INFINI- TY, LWD PLAN PH	22MM	COARSE & FINE	FULL	N.A. 0.3 CONDENSER 72MM WD	5W LED	FIXED	4 POS
LMI6PH2	TRINOC	4X, 10X, 20X, 40X LWD PLAN PH	INFINI- TY, LWD PLAN PH	22MM	COARSE & FINE	FULL	N.A. 0.3 CONDENS- ER, 72MM WD	5W LED	X/Y MECH STAGE	4 POS
LMI6PH23	TRINOC	4X, 20X LWD PLAN FLUOR PH	INFINI- TY, LWD PLAN FLUOR PH	22MM	COARSE & FINE	FULL	N.A. 0.3 CONDENS- ER, 72MM WD	5W LED	FIXED	4 POS
LMI6PH24	TRINOC	4X, 10X, 20X, 40X LWD PLAN FLUOR PH	INFINI- TY, LWD PLAN FLUOR PH	22MM	COARSE & FINE	FULL	N.A. 0.3 CONDENS- ER, 72MM WD	5W LED	X/Y MECH STAGE	4 POS

SPECIFICATION

PART	DESCRIPTION
EYEPIECE	PLN10X/22mm, Plan high-eyepoint piece
OBJECTIVES	LWD Infinity Plan Achromat Objective 4x LWDPL 4x/0.1 N.A. WD=22mm
	LWD Infinity Plan Achromatic Phase Contrast Objective 4x/0.13 N.A. WD=10.4mm
	LWD Infinity Plan Achromatic Phase Contrast Objective 10x/0.25 N.A. WD=7.3mm
	LWD Infinity Plan Achromatic Phase Contrast Objective 20x/0.40 N.A. WD=6.8mm
	LWD Infinity Plan Achromatic Phase Contrast Objective 40x/0.65 N.A. WD=3.05mm
HEAD TYPE	Trinocular Head, 45° inclined, 100:0, 80:20 light split, diopter adjustment and interpupillary adjustment (50-80mm)
NOSEPIECE	5-position Objective Nosepiece
CONDENSER	N.A. 0.3 Condenser, WD = 78mm, Removable
FOCUS	Coaxial Coarse and Fine Adjustment, tension adjustment, precision: 0.002mm
MECH. STAGE	Attachable Mechanical Stage, Moving Range: 120x80mm, includes vessel holders
ILLUMINATION	5W LED Transmitted Illumination
PHASE SLIDER	Pre-Centered Phase Contrast Slider 4x-40x
FILTERS	45mm IF550 Filter
	45mm LBD Filter

ACCESSORIES

EYEPIECES	
PART #	DESCRIPTION
LMCP-PLN10X22T	WF HP PL 10X Eyepiece w/Dioper Adjustment, 22mm FOV
LMCP-PLN10X22TR	WF HP PL 10X Eyepiece w/Dioper Adjustment, 22mm FOV & Reticle
LMCP-PL15X16T	WF HP PL 15X Eyepiece w/Dioper Adjustment, 16mm FOV

FILTERS	
PART	DESCRIPTION
LMCP-LBD	Φ 45 Color Temperature Shift Filter
LMCP-XY-FCF	Φ 45 Yellow Contract Filter
LMCP-IF550	Φ 45 Green Contract Filter
LMCP-XY-FCF	Φ 45 Neutral Color Temperature Filter

STAGE MICROMETERS	
PART#	DESCRIPTION
MP-SM100	1mm ruled with 0.01mm div
MP-SM100-C	1mm ruled with 0.01mm div, NIST Cert
MP-SM101	0.04 ruled with 0.001 div
MP-SM101-C	0.04 ruled with 0.001 div, NIST Cert
MP-SM102	2mm ruled with 0.01mm div
MP-SM102-C	2mm ruled with 0.01mm div, NIST Cert

STAGE ACCESSORIES	
PART #	DESCRIPTION
LMCP-XDCPG	Glass stage plate
LMCP-XDCPM	Metal stage plate (Φ25 center hole)
LMCP-XDCPM2	Metal stage plate (Φ12 center hole)
LMCP-XDCPM3	Metal stage plate (crescent shaped hole)
LMCP-ICX41SGM	Mechanical Stage, Travel 120mm x 80mm
LMCP-XDSGEX	Stage Extension Plate
LMCP-XDSGHJ01	Φ35 Petri dish holder
LMCP-XDSGHJ02	Slides holder
LMCP-XDSGHJ03	Terasaki holder

CAMERA	
PART #	DESCRIPTION
DC2-C	3MP Digital Color Camera
LMCP-OD140BC	1.4MP Digital Color Camera, ICX285
LMCP-OD140BM	1.4MP Digital Monochrome Camera, ICX285
LMCP-MVIFL	Imaging Software for LMCP-OD140BC/BM

C-MOUNT ADAPTERS	
PART #	DESCRIPTION
LMCP-CX50MCTV0.35	0.35X C-Mount Adapter, Focusable
LMCP-CX50CTV0.5	0.5X C-Mount Adapter, Focusable
LMCP-CX50CTV06.5	0.65X C-Mount Adapter, Focusable
LMCP-CX50CTV1	1X C-Mount Adapter, Focusable

OBJECTIVES	
PART #	DESCRIPTION
LMCP-OLIPN4B	LWD Infinity Plan Achromatic Objective 4x/0.13 N.A. WD = 10.4 mm
LMCP-OLIPN10B	LWD Infinity Plan Achromatic Objective 10x/0.25 N.A. WD = 7.3 mm
LMCP-OLIPN20B	LWD Infinity Plan Achromatic Objective 2x/0.40 N.A. WD = 6.8 mm
LMCP-OLIPN40A	LWD Infinity Plan Achromatic Objective 40x/0.65 N.A. WD = 3.05 mm
LMCP-OLIPN60	LWD Infinity Plan Achromatic Objective 60x/0.70 N.A. WD = 1.70 mm
LMCP-OLIPP2N4B	LWD Infinity Plan Achromatic Phase Contrast Objective 4x/0.13 N.A. WD = 10.4 mm
LMCP-OLIPP2N10B	LWD Infinity Plan Achromatic Phase Contrast Objective 10x/0.25 N.A. WD = 7.3 mm
LMCP-OLIPP2N20B	LWD Infinity Plan Achromatic Phase Contrast Objective 20x/0.40 N.A. WD = 6.8 mm
LMCP-OLIPP2N40A	LWD Infinity Plan Achromatic Phase Contrast Objective 40x/0.65 N.A. WD = 3.05 mm
LMCP-OLIPF4	LWD infinity Plan Fluorite Objective 4X/0.13 WD = 18.52mm
LMCP-OLIPF10	LWD Infinity Plan Fluorite Objective 10X/0.30 WD = 7.11mm
LMCP-OLIPF20	LWD Infinity Plan Fluorite Objective 20X/0.45 N.A. WD = 5.91mm

OBJECTIVES	
PART #	DESCRIPTION
LMCP-OLIPF40	LWD Infinity Plan Fluorite Objective 40X/0.65 N.A. WD = 1.61mm
LMCP-OLIPF60	LWD Infinity Plan Fluorite Objective 60X/0.75 N.A. WD=1.04mm
LMCP-OLIPP2F4	LWD Infinity Plan Fluorite Phase Contrast Objective 4X/0.13 WD = 18.52mm
LMCP-OLIPP2F10	LWD Infinity Plan Fluorite Phase Contrast Objective 10X/0.30 WD = 7.11mm
LMCP-OLIPP2F20	LWD Infinity Plan Fluorite Phase Contrast Objective 20X/0.45 N.A. WD = 5.91mm
LMCP-OLIPP2F40	LWD Infinity Plan Fluorite Phase Contrast Objective 40X/0.65 N.A. WD = 1.61mm



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