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Microscopes



BEST SELLERS	Model	Mi5	i4 Labscope	Revelation III
	Model #	M5M-B05A-IPL3	I4M-B04A-IPL3	R3M-B04A-DAH1
	Head	Binoc	Binoc	Binoc
	Objectives	4-10-20-40-100 Infinity Plan	4-10-40-100 Infinity Plan	4-10-40-100 DIN Achromat
	Nosepiece	Reverse quintuple	Reverse quadruple	Quadruple forward-facing
	Stage	Mechanical	Mechanical	Mechanical
	Target Markets	Pathology, Hematology, Oncology, Gynecology, Research, Microbiology, IHC	Cytology, Hematology, Oncology, Gynecology, Research, Microbiology	Routine Lab, POL, Tech Schools, Universities



SPECIALIZED	Model	Mi5 Polarizer	Lumin™ i4	Semen Evaluation
	Model #	M5M-BPOL-IPH3	I4S-EPB4-IPL3	M2S-SEB4-DPH3
	Head	Binoc	Binoc	Binoc
	Objectives	4-10-20-40 Infinity Plan	4-10-40-100 Infinity Plan	4-10-40-100 DIN Plan
	Nosepiece	Reverse quintuple	Reverse quadruple	Reverse quadruple
	Stage	Round, Rotates 360, Mechanical Optional	Mechanical	Mechanical
	Target Markets	Rheumatology, Urology	Tuberculosis, Malaria, STD, Pathology, Immunology, Research IHC	Fertility Clinics, IVF, Research



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Mi5

LW Scientific is proud to introduce the new Mi5 microscope, our most advanced modular microscope to date. The Mi5 was developed for use in a broad range of applications from routine research and lab inspections, to more specific healthcare applications such as pathology, cytology, oncology, hematology, and gynecology. Bright white LED illumination provides clarity and maintains constant color temperature for most specimens. Superior infinity optics and proven, ergonomic design make the Mi5 comfortable to use for extended periods of time. The Mi5 is equipped to ease the burden on the busiest and most discriminating lab technicians and specialists.

HEAD

Binocular (Seidentopf), Trinoc available
Digital cameras and adapters available
Diopter adjustment +/-5
Inclined 30°
10X/20X Super WF HP eyepieces
Interpupillary distance range 50-75mm

NOSEPIECE

Reverse quintuple nosepiece
Multiple ball bearing mounted

OBJECTIVES

Infinity Plan objectives
4X, 10X, 20X, 40XR, 100XR (oil)
50X (oil) and 60x dry objectives are also available
Anti-fungal, parfocal, parcentric, color-coded

STAGE

Mechanical stage (135mm X 184mm)
Coaxial drive controls, metal rack & pinion
Range of traverse: 73mm x 43mm
Stage locking lever
Slow-close hydraulic slide finger

FOCUS

Coarse adjustment: range of 22mm
Fine adjustment: graduation of 2µm
Tension control knob

ILLUMINATION

Moveable Abbe condenser, NA 1.25
Iris Diaphragm
LED provides 10,000+ hours of light and consistent, even brightness
Variable light adjustment: 0-20W output
Simple koehler illumination
90-240V / 50-60Hz automatic-switching power cord



Mi5

Model #	Description
M5M-T05A-IPL3	Mi5 Infinity LabScope PLAN Trinoc, 5 obj, LED
M5M-B05A-IPL3	Mi5 Infinity LabScope PLAN Binoc, 5 obj, LED

APPLICATIONS

KOVA slide system for urinalysis, pathology, hematology, oncology, gynecology, research, microbiology

OPTIONS

Phase contrast, 50x oil, 60x and 2.5x dry objectives, camera attachments, Darkfield, Epi-fluorescence, Flip-out bright field condenser for Pathology

WEIGHT AND DIMS

Height: 15.6" (396 mm)
Length: 16.5" (420 mm)
Width: 8.1" (206 mm)
Weight: Trinoc: 20.5 lbs.
Binoc: 20.0 lbs.



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i4



The i4 modular series microscope features exceptional optical quality and expandability for top-notch performance in the lab. Use the rotating head to adjust the height for taller users. Infinity Plan and Semi-Plan optics with a 30-year anti-fungal coating match quality with value within any clinic's budget. The i4 microscope provides comfort, durability, dependability and superior imaging for the lifetime of the laboratory.



USA electronics – installed in Lawrenceville, GA

HEAD

Binocular (Seidentopf), Trinoc available
Digital cameras and adapters available
Diopter adjustment
Inclined 30°, rotates 360°
10X/18 WF Eyepieces
(10X/20X Super WF HP eyepieces available)
Interpupillary distance range 48-75mm

NOSEPIECE

Reverse quadruple nosepiece
Multiple ball bearing mounted

OBJECTIVES

Infinity Semi-Plan or Plan objectives
4X, 10X, 40XR, 100XR (oil)
50X (oil) objective is also available
Anti-fungal, parfocal, parcentric, color-coded

STAGE

Mechanical stage (140mm X 155mm)
Coaxial drive controls, metal rack & pinion
Range of traverse: 73mm x 43mm
Stage locking lever
Slow-close hydraulic slide finger

FOCUS

Coarse adjustment: range of 30mm
Fine adjustment: graduation of 2µm
Tension control knob

ILLUMINATION

Moveable Abbe condenser, NA 1.25
Iris Diaphragm
LED "daylight" long-life light source
Variable light adjustment: 0-20W output
100-240V / 50-60Hz automatic-switching
power cord

i4

Model #	Description
I4M-B04A-IPL3	Binoc head, 4-10-40-100 Infinity Plan objectives
I4M-T04A-IPL3	Trinoc head, 4-10-40-100 Infinity Plan objectives
I4M-B04A-ISL3	Binoc head, 4-10-40-100 Infinity Semi Plan objectives
I4M-T04A-ISL3	Trinoc head, 4-10-40-100 Infinity Semi Plan objectives

- Medical-Grade Microscope
- Anti-Fungal Coating on All Lenses
- LED "daylight" long life illumination

OPTIONS

Phase contrast, 50x oil objective, camera attachments, and more.

WEIGHT AND DIMS

Height: 14.1" (352.5 mm)
Length: 10.7" (267.5 mm)
Width: 6.1" (152.5 mm)
Weight: Binoc: 16.0 lbs. (7.26 kg)
Trinoc: 16.6 lbs. (7.53 kg)



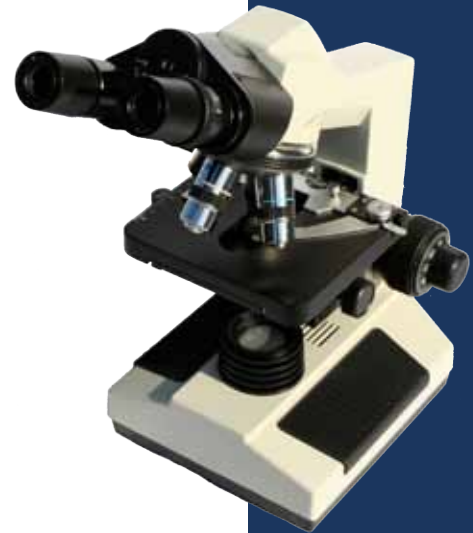
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Rev III

The Revelation III professional-grade microscope is a best-seller into physician and veterinarian clinics, as well as universities and medical schools. Equipped for performance, its features include titanium-finished DIN achromatic or DIN Plan optics and a 30-year anti-fungal coating. The Revelation III is the choice for superior performance at a great value! Included accessories: three 0.5 amp fuses, mirror attachment (for field use), blue and green filters, dust cover, immersion oil, spare bulb, manual and warranty card.



HEAD

Binocular (Seidentopf)
Inclined 30°, rotates 360°
Diopter adjustment
10X/18 wide field eyepieces (10X/20HP available)
Monocular, trinocular, dual binocular and
45° sliding heads available
Interpupillary distance range 55-75mm

NOSEPIECE

Quadruple forward-facing nosepiece
Multiple ball bearing mounted

OBJECTIVES

DIN Achromatic or DIN Plan
30 year anti-fungal coating
4X, 10X, 40X, 100XR (oil)
Parfocal, parcentric, color-coded

STAGE

Mechanical stage (140mm x 140mm)
Coaxial drive controls
Range of traverse is 73mm x 43mm
Stage locking lever
Slow-close hydraulic slide finger

FOCUS

Coarse adjustment: range of 30mm
Fine adjustment: graduation of 2µm
Tension control knob

ILLUMINATION

Moveable Abbe condenser, NA 1.25, rack & pinion
Iris diaphragm
110V/220V switchable electronics
12V DC battery input available
Light Options:
Variable halogen light source (12V/20W bulb)
Variable LED light source (7W bulb)

Rev III

Model #	Description
R3M-B04A-DAH3	Binoc head, 4-10-40-100 DIN Achromatic objectives
R3M-T04A-DAH3	Trinoc head, 4-10-40-100 DIN Achromatic objectives
R3M-B04A-DPH3	Binoc head, 4-10-40-100 DIN Plan objectives
R3M-T04A-DPH3	Trinoc head, 4-10-40-100 DIN Plan objectives
R3M-M04A-DAH3	Monoc head, 4-10-40-100 DIN Achromatic objectives

- Medical-Grade Microscope
- Anti-Fungal Coating on All Lenses
- Field-Ready Portable Options

WEIGHT AND DIMS

Height: 15" (380mm)
Length: 9" (230mm)
Width: 7" (178mm)
Weight: 14 lbs. (6.4kg)



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Mi5 Polarizing

The Mi5 Polarizing LabScope is an essential tool for synovial fluid analysis. Crystal-induced arthritis, such as gout or pseudogout, can be identified and differentiated with the use of the polarizing attachment and red compensator lens. The Mi5 also functions as a flat-field, laboratory-grade microscope for routine cytology, hematology, urinalysis, etc. This specialized system was designed to combine high-resolution optics with functionality at an affordable price for rheumatologists, gemologists, and more.

HEAD

Binocular (Seidentopf), Trinoc available
Diopter adjustment +/-5
Inclined 30°
10X/20X Super WF HP eyepieces;
numbered cross scale
Focusable eyepiece with numbered cross
scale reticle
Interpupillary distance range 50-75mm

OBJECTIVES

Infinity Plan objectives
4x, 10x, 20x, 40x
60x dry available
Anti-fungal, parfocal, parcentric, color-coded

STAGE

Center-adjustable stage (153mm diameter)
360 degree rotation; 1 degree increments
Center adjustable
Tension control knob
Slide clips (mechanical add-on available)

NOSEPIECE

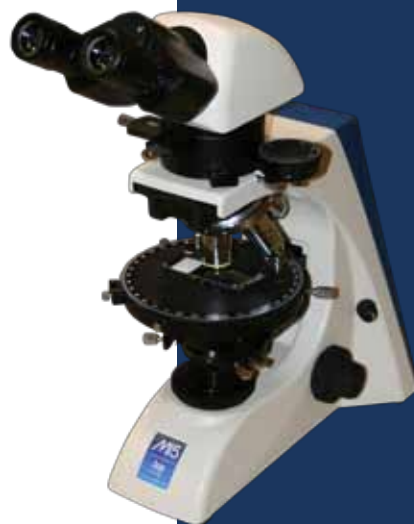
Reverse quintuple nosepiece
Multiple ball bearing mounted

ILLUMINATION

Moveable Abbe condenser, NA 1.25
Iris Diaphragm
6V/20W Clear Halogen illumination
Variable light adjustment: 0-20W output
90-240V / 50-60Hz automatic-switching
power cord

FOCUS

Coarse adjustment: range of 22mm
Fine adjustment: graduation of 2µm
Tension control knob



Mi5 Polarizing

Model #	Description
M5M-BPOL-IPH3	Mi5 Polarizing binoc, Infinity Plan objectives, halogen illumination
M5M-TPOL-IPH3	Mi5 Polarizing trinoc, Infinity Plan objectives, halogen illumination
M5P-STG7-POL7	Mechanical stage
M5O-060X-IPDR	60x dry objective for Mi5

- 60X Objective & Mechanical Stage Available
- Anti-Fungal Coating on All Lenses
- Consistent, Even Brightness

WEIGHT AND DIMS

Height: 15.6" (396 mm)
Length: 16.5" (420 mm)
Width: 8.1" (206 mm)
Weight: Trinoc: 20.5 lbs.
Binoc: 20.0 lbs.

ANALYZER & ACCESSORIES

Uric Acid Control slide
Polarizing analyzer with 360 degree increments
Red Compensator lens (λ); (λ/4) lens;
Quartz Wedge Bertrand lens

OPTIONS

Camera attachments (digital and HD)
60x dry objective



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Inverted

The LW Scientific Inverted Microscope is able to perform intricate and varied applications for vital tissue cultures. It is perfect for observation and education or for professional research in a clinical lab. Pathologists, biologists and medical researchers naturally choose this microscope. Accessories included: Green, blue and neutral filters, dust cover, immersion oil, manual and warranty card.

HEAD

Trinocular head
Ideal for video/photography
Centering eyepiece for phase objective
EW 10X /22 extra wide field eyepieces

NOSEPIECE

Quintuple nosepiece

OBJECTIVES

Infinity Optical System
Objectives: Plan 4X and 40x,
Plan Phase 10x and 20x

STAGE

Stage, W: 160 L: 250mm
Auxiliary stage, 70x180mm
Coaxial drive controls
Optional mechanical stage available:
X-Y Coaxial control
Range of traverse: 120x78mm

FOCUS

Coarse adjustment: range of 37.7mm
Fine adjustment: 0.002mm per rotation
Vertical objective movement

ILLUMINATION

6V/30W halogen bulb

CONDENSER

Abbe condenser with 20X phase



Inverted

Model #	Description
L1M-T04A-DPH3	Inverted Microscope
I4P-EPIL-485N	Epi Lumin™ Fluorescence Module

- Infinity Optical System
- Coaxial Drive Controls
- Centering Eyepiece for Phase Objective

OPTIONS

Multiple photo options

WEIGHT AND DIMS

Weight: 24.0 lbs.

ACCESSORIES

Lumin™ Epi Fluorescence Module



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Semen Evaluation

Perfect for veterinarians or fertility clinics, the Semen Evaluation LabScope is the complete package for live specimen microscopy. Motility analysis should be performed at 37 degrees Celsius to keep sperm active, and the heated stage has a digital temperature control unit which can be set for any temperature between 25 and 50 degrees Celsius. The heated stage will maintain accurate and stable temperatures within +/- 0.5 degrees during observation. Unplug the cord from the stage, and this microscope looks and functions like a standard laboratory-grade microscope. The Plan phase objectives and turret condenser allow flat-field, high-contrast viewing of live, unstained specimens, and easy magnification changes with the flip of the thumb.

APPLICATIONS

Semen evaluation - motility analysis
Live biological specimen analysis
Functions as standard brightfield microscope as well



COMPLETE SYSTEM FEATURES

M2-P complete laboratory binocular microscope
10X/20 High-point, oversized WF eyepieces
Built-in heated stage with cord
X-Y mechanical stage for precise slide movements
Digital temperature control unit
DIN plan flat-field objectives
Phase 10x, Phase 40x, Phase 100x
Turret condenser with Phase, Darkfield, and Brightfield
Variable halogen 20 watt Koehler illumination
110v or 220v AC power
Optional trinocular head with camera connections

HEATED STAGE SPECIFICATIONS

Variable digital temp. control from 25-50 degrees C
Set temperature in 1 degree increments
Displays actual temperature in 0.1 degree increments
Accurate within 0.5 degrees C
Reaches temperature within 1-2 minutes
Switchable power input 110v or 220v AC

INCLUDES

Spare 2 amp fuse, spare 12v/20w halogen bulb, blue-green-yellow filters, immersion oil, dust cover, manual, and warranty card

Semen Evaluation

Model #	Description
M2S-SEB4-DPH3	Complete Semen Evaluation Labscope

- Accurate temperatures within +/- 0.5 degrees
- 10X/20 High Point Oversized Eyepieces
- Anti-fungal Coating on Optics

DIGITAL CONTROL UNIT DIMS

Height: 6.5" (153 mm)
Length: 9" (225 mm)
Width: 3.4" (84 mm)
Weight: 5.5 lb. (2.5 kg)

MICROSCOPE DIMS

Height: 16 1/2" (420 mm)
Length: 10 5/8" (270 mm)
Width: 7 7/8" (200 mm)
Weight: 20 lbs. (9 kg)



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Lumin™

The Lumin™ provides any lab in the world with advanced fluorescence technology. LW Scientific's focus is to implement the Lumin™ as a primary component of worldwide Tuberculosis, and other pathogen diagnosis standard practice. The Lumin™ is easy to install, fits most any microscope, and uses safe light with no harmful UV emissions. By providing low-cost, advanced fluorescence technology that does not necessitate replacing existing equipment, the Lumin™ allows healthcare workers and laboratory staff to identify more pathogen cases and reduce further infections.

ILLUMINATION

LED (proprietary) 50,000 hour use bulb
Safe light - No harmful UV emissions
No dark room required

POWER

Input: 12V \equiv 1A
(use only supplied power adapter)
Power Adapter: Input 100-240v
50-60 Hz auto-switching

OPTIONS

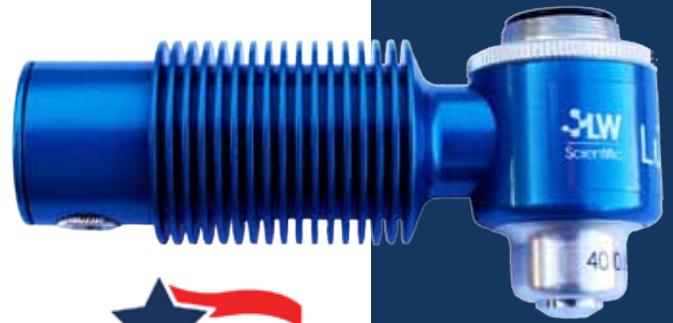
20X Objective
40X Objective
60X Objective
100X Oil Objective

FEATURES

Easy To Install
Lifetime Bulb
Fits Most Any Microscope
No Dark Room Required
Can Run on Battery Power
Safe Light – No Harmful UV Emissions

WEIGHT AND DIMS

The Lumin™ Kit - Less than 1 pound (<448 g), including dust and moisture resistant case (50x60x30mm)



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Model #	Description
LMP-4951-L485	Lumin™ 490nm/510nm LED illuminator
LMO-020X-DADR	Lumin™ 20x Objective (no light)
LMO-040X-DADR	Lumin™ 40x Objective (no light)
LMO-100X-DAOL	Lumin™ 100x OIL Objective (no light)
LMS-040X-D480	Lumin™ kit (Illuminator and 40X universal objective)

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Mi5 Epi Lumin™

The Mi5 modular microscope was developed for use in a broad range of applications and has a great new optical enhancement. The new Mi5 Epi Lumin™ module allows for FITC Epi Fluorescence at a very affordable price. For users looking to rid their facilities of harmful Mercury HBO bulbs that emit UV light and upgrade from their antiquated Epi Fluorescence (EF) systems, the Mi5 Epi Lumin™ is the perfect solution.

With integrated LED technology for both bright field and Epi-Fluorescence microscopy, the Mi5 Epi Lumin™ offers superior clarity and crisp imaging—all at a price that allows even labs on a limited budget to benefit from the latest technological advances.

The Lumin™ epifluorescence module converts our standard Mi5 microscope to a fully functional epifluorescence microscope. The resulting images rival those obtained from traditional, expensive epifluorescence systems.

HEAD

Binocular (Seidentopf), Trinoc available
Digital cameras and adapters available
Diopter adjustment +/-5
Inclined 30°
10X/20X Super WF HP eyepieces
Interpupillary distance range 50-75mm

OBJECTIVES

Infinity Plan objectives
4X, 10X, 20X, 40XR, 100XR (oil)
50X (oil) and 60x dry objectives are also available
Anti-fungal, parfocal, parcentric, color-coded

ILLUMINATION

Brightfield:

Moveable Abbe condenser, NA 1.25
Iris Diaphragm
Input: 12V \equiv 1A
(use only supplied power adapter)
Power Adapter: Input 100-240v
50-60 Hz auto-switching

Epifluorescence:

LED long-life light source
Excitation spectrum: FITC standard
Other filter cubes available upon request



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Lumin™

Model #	Description
M5S-EPB5-IPL3	Mi5 Lumin™ Epi-Fluor (490/510nm) Infinity PLAN Binoc, LED
M5S-EPT5-IPL3	Mi5 Lumin™ Epi-Fluor (490/510nm) Infinity PLAN Trinoc, LED

NOSEPIECE

Reverse quintuple nosepiece
Multiple ball bearing mounted

FOCUS

Coarse adjustment: range of 22mm
Fine adjustment: graduation of 2μm
Tension control knob

STAGE

Mechanical stage (135mm X 184mm)
Coaxial drive controls, metal rack & pinion
Range of traverse: 73mm x 43mm
Stage locking lever
Slow-close hydraulic slide finger

DIMENSIONS

Height: 15.6" (396 mm)
Length: 16.5" (420 mm)
Width: 8.1" (206 mm)
Weight: Trinoc: 20.5 lbs.
Binoc: 20.0 lbs.


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i4 Epi Lumin™

For users requiring a multi-purpose microscope for expanding health services, LW Scientific introduces the new i4 Epi Lumin™ Fluorescence microscope. With integrated LED technology for both bright field and epifluorescence microscopy, the i4 Epi Lumin™ offers superior clarity and crisp imaging—all at a price that allows even labs on a limited budget to benefit from the latest technological advances.

The Lumin™ epifluorescence module converts our standard i4 microscope to a fully functional epifluorescence microscope. The resulting images rival those obtained from traditional, expensive epifluorescence systems.

HEAD

Binocular (Seidentopf), Trinoc available
Digital cameras and adapters available
Diopter adjustment
Inclined 30°, rotates 360°
10X/18 WF Eyepieces
(10X/20X Super WF HP eyepieces available)
Interpupillary distance range 55-75mm

NOSEPIECE

Reverse quadruple nosepiece
Multiple ball bearing mounted

OBJECTIVES

Infinity Semi-Plan or Plan Achromat objectives
4X, 10X, 40XR, 100XR (oil)
20X and 50X (oil) objective also available
Anti-fungal, parfocal, parcentric, color-coded

ILLUMINATION

Brightfield:

Moveable Abbe condenser, NA 1.25
Iris Diaphragm
Input: 12V $\overline{\text{---}}$ 1A
(use only supplied power adapter)
Power Adapter: Input 100-240v
50-60 Hz auto-switching

Epifluorescence:

LED long-life light source
Excitation spectrum: FITC standard
Other filter cubes available upon request



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Lumin

Model #	Description
I4S-EPB4-IPL3	i4 Epi Lumin™ (490/510nm) Infinity PLAN Binoc, LED, 4-10-40-100
I4S-EPT4-IPL3	i4 Epi Lumin™ (490/510nm) Infinity PLAN Trinoc, LED, 4-10-40-100
I4S-EPB4-ISL3	i4 Epi Lumin™ (490/510nm) Infinity Semi-Plan Binoc, LED, 4-10-40-100
I4S-EPT4-ISL3	i4 Epi Lumin™ (490/510nm) Infinity Semi-Plan Trinoc, LED, 4-10-40-100

FOCUS

Coarse adjustment: range of 30mm
Fine adjustment: graduation of 2 μ m
Tension control knob

STAGE

Mechanical stage (140mm X 140mm)
Coaxial drive controls, metal rack & pinion
Range of traverse: 73mm x 43mm
Stage locking lever
Slow-close hydraulic slide finger

DIMENSIONS

Height: 18" (457.2mm)
Length: 10.7" (267.5 mm)
Width: 6.1" (152.5 mm)
Weight: 24 lbs (10.9 kg)

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Epi Lumin™ Module

With integrated LED technology for fluorescence microscopy LW Scientific's new Epi Lumin Fluorescence offers superior clarity. Safe, compact, and easy-to-install on many existing infinity microscopes, the Epi Lumin Module represents a breakthrough in providing affordable fluorescence advances to laboratories worldwide. Try the Epi Lumin Module and experience unparalleled optical quality at an unbeatable price.

ILLUMINATION

LED long-life light source provides extremely bright, reliable fluorescence

Excitation cube: FITC standard (other cubes available upon request)

Excitation: 485 nm

Emission: 510 nm

POWER

Input: 12V \equiv 1A

(use only supplied power adapter)

Power Adapter: Input 100-240v

50-60 Hz auto-switching

ADVANTAGES

Easy to install

Lifetime bulb

Bulb never needs alignment

Safe illumination—no harmful UV emissions

No darkroom required

Crystal-clear optics surpass expensive alternatives

Works with many existing infinity microscopes

DIMENSIONS & WEIGHT

Height: 2" (50.8 mm)

Length: 5.3" (134.6 mm)

Width: 3.1" (78.7 mm)

Weight: 1 lbs (0.5 kg)



Model #	Description
I4P-EPIL-485N	Epi Lumin™ Fluorescence Module on i4 Microscope
M5P-EPIL-485N	Epi Lumin™ Fluorescence Module for Mi5 Microscope
OLY-EPIL-485N	Epi Lumin™ Fluorescence Module for Olympus CX Microscope
NKN-EPIL-485N	Epi Lumin™ Fluorescence Module for Nikon Microscope



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Student Pro

Taking the student scope to the next level – the Student Pro is ready for any teacher, student, or hobbyist that wants the “professional grade” in student scopes. With our proven design the Student Pro includes many of the advanced features you would find on any laboratory quality microscope – built in mechanical stage, heavy cast alloy, all metal gearing, moveable 1.25 ABBE condenser, and clear DIN objectives. Accessories include a dust cover, blue and green filters, fuse, and spare bulb. Get accurate, clear results on a student-friendly scope without sacrificing the quality of observation with the Student Pro.



HEAD

Standard monocular head
Bearing mounted, rotates 360°
10X/18 wide field eyepiece
Locked-in eyepiece with pointer installed

CONSTRUCTION

Heavy cast alloy
Acid and reagent resistant finish
All metal gearing

OBJECTIVES

Four position nosepiece
DIN Achromatic 4X, 10X, 40X (retractable)
Optional 100x oil objective
Parfocal and parcentric
Color coded

STAGE

Built-in “true-mechanical stage”
Stage size: 124mm x 115mm

ILLUMINATION

Moveable NA 1.25 ABBE condenser
Iris Diaphragm
Variable LED base
Auto-switching 110-240V

ADJUSTMENT CONTROLS

Coaxial coarse and fine focus
Adjustable stage stop

Student Pro

Model #	Description
EDM-MM4A-DAL3	Monoc head, 4X, 10X, 40XR, 100X objectives, LED base, mechanical stage
EDM-MM3A-DAL3	Monoc head, 4X, 10X, 40XR objectives, LED base, mechanical stage

- Built-in “True-Mechanical Stage”
- Variable LED base
- Coaxial Focus Knobs

INCLUDES

Blue and green filters
Filter holder
Dust cover
Spare bulb and fuse

DIMENSIONS AND WEIGHT

Height: 14” (356mm)
Length: 6.5” (165.1mm)
Width: 5.25” (134mm)
Weight: 6.2 lbs. (2.8kg)



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Student Advanced

For the teacher that wants more than just the basic microscope for his classroom this advanced model is an excellent choice. The 1.25 ABBE condenser allows the addition of a 100x oil immersion objective. The iris diaphragm allows precision adjustments to the cool fluorescent light.



HEAD

Standard monocular head
Bearing mounted, rotates 360°
10X/18 wide field eyepiece
Locked-in eyepiece with pointer installed
Teaching head available

CONSTRUCTION

Heavy cast alloy
Acid and reagent resistant finish
All metal gearing

OBJECTIVES

Four position nosepiece
DIN Achromatic 4X, 10X, 40XR (retractable)
Optional 100x oil objective
Parfocal and parcentric
Color coded

STAGE

Pre-drilled and tapped for optional mechanical stage
Spring-loaded slide clips included
Stage size: 110mm x 110mm

ILLUMINATION

NA 1.25 ABBE condenser
Iris Diaphragm
5w fluorescent
Input 110V (220V optional)
Optional Rechargeable LED base available

ADJUSTMENT CONTROLS

Coaxial coarse and fine focus
Adjustable stage stop

Student Advanced

Model #	Description
EDM-M03A-DAF1	Monoc head, 4X, 10X, 40X objectives
EDM-M04A-DAF1	Monoc head, 4X, 10X, 40X, 100X objectives
EDM-M03A-DALP	Monoc head, 4-10-40 objectives, LED illumination, cordless
EDM-M04A-DALP	Monoc head, 4-10-40-100 objectives, LED illumination, cordless

- Iris Diaphragm
- Optional 100x objective
- Coaxial Focus Knobs

INCLUDES

Blue and green filters
Filter holder
Dust cover
Spare bulb and fuse

DIMENSIONS AND WEIGHT

Height: 14" (356mm)
Length: 7.0" (178mm)
Width: 5.25" (134mm)
Weight: 6.1 lbs. (2.8kg)



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Student Standard

This student microscope has everything necessary for the middle school or high school classroom. This is a proven design with student proof features such as locked-in eyepieces, and a durable disk diaphragm. Clear DIN optics, coarse and fine focus, illumination and stage options make this scope a guaranteed winner. Included accessories: Dust cover, one fuse, spare bulb, manual and warranty card.



HEAD

Standard monocular head
Bearing mounted, rotates 360°
10X/18 wide field eyepiece
Locked-in eyepiece with pointer installed
Teaching head available

CONSTRUCTION

Heavy cast alloy Head Objectives
Acid and reagent resistant finish
All metal gearing

OBJECTIVES

Triple nosepiece
DIN Achromatic 4X, 10X, 40XR (retractable)
Parfocal and parcentric
Color coded

STAGE

Pre-drilled and tapped for optional mechanical stage
Spring-loaded slide clips included
Stage size: 110mm x 110mm

ILLUMINATION

NA 0.65 condenser
Five position disk diaphragm
Standard 5w fluorescent
Optional 20w tungsten and
Rechargeable LED bases available
Input 110V (220V optional)

ADJUSTMENT CONTROLS

Coarse and fine focus with tension adjustment
Adjustable stage stop

Student Standard

Model #	Description
EDM-M03D-DAF1	Monoc head, 4X, 10X, 40X, fluorescent illumination

- Cost-Effective Bid Scope
- Disk Diaphragm
- Triple Nosepiece

WARRANTY

One year on materials and workmanship
One year on electronic components

DIMENSIONS AND WEIGHT

Height: 14" (356mm)
Length: 7.0" (178mm)
Width: 5.25" (134mm)
Weight: 6.1 lbs. (2.8kg)



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Pro Service Kit

Keep your optical equipment operating flawlessly with the new Pro Service Kit from LW Scientific. Who could know more about optical performance than a manufacturer of laboratory microscopes? Even a novice can perform expert scope service using the easy-to-understand picture manual in the Pro Service Kit. All tools are included for routine adjustments, alignments, and assembly, and the specialized cleaning supplies are gentle enough to protect the most delicate multi-coated optics. We know that a booklet of 25 lens papers wouldn't last 2 weeks in a lab, so we've included large-sized supplies that will last for months. Each component of the Pro Service Kit is available for individual sale, or choose the Standard Cleaning Kit for basic cleaning.



APPLICATIONS

Compound Microscopes
Stereo Microscopes
Telescopes
Cameras
All glass and plastic lenses

WHO NEEDS IT?

Every LW Scientific Distributor Sales Rep
Biology Teachers and Homeschoolers
Lab Technicians and Microscopists
Astronomers
Physicians and Veterinarians

PRO SERVICE KIT

Air Duster - 8 oz.
Lint-free Lens Paper - 280 sheets
"No-residue" Lens Cleaning Fluid - 1 oz.
Cotton-tipped Applicators - 100
Microfiber Lens Cloth - 9x9 inch
Soft-bristled Dusting Brush - 1
Micro-Glide Gear Lubricant - 1 tube
3 Allen Wrenches - 1.5, 2.0, 2.5mm
Friction Collar Wrench - double-sided
Precision Screwdriver Set - 6 sizes
Nylon Carry Case - 4x7x10 inches

STANDARD CLEANING KIT

Air Duster - 8 oz.
Lint-free Lens Paper - 280 sheets
"No-residue" Lens Cleaning Fluid - 1 oz.
Cotton-tipped Applicators - 100

Pro Service Kit

Model #	Description
MSP-PSK7-7777	Pro Service Kit in Carry Bag
MSP-SCK7-7777	Standard Cleaning Kit

- A "Must Have" for Microscope Owners
- Specialized Tools for Adjusting and Aligning
- Detailed Picture Instruction Manual

INSTRUCTION MANUAL

Detailed Pictures for every tool use
Compound and Stereoscope Service Techniques
Technical Terms For Microscopy

Pro Service Kit - Dims:

Height: 10.0" (250mm) Width: 7.0" (177mm)
Depth: 4" (103 mm) Weight: 1.9 lb. (0.9 kg)

Standard Cleaning Kit - Dims:

Height: 5.5" (140mm) Width: 8.75" (225mm)
Depth: 5.5" (140 mm) Weight: 1.9 lb. (0.9 kg)



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D-LCD Zoom

D-LCD Video Microscope has renovated the traditional way of microscopic observation and adopted a modern way of electronic imaging. This patented microscope makes the observation more comfortable and thoroughly resolves the fatigue caused by using a traditional microscope at work for a long time. It features high performance of CCD image capturing, high resolution of LCD display and reverting genuine images. Based on 2D observation, 3D angle attachment is added to obtain 3D multi-angle observation. Laser locating function can easily identify the position of observation. This unit integrates magnification, imaging, display, LED illumination and laser locating functions. Compact design, light weight and low power consumption make the operation simple and convenient. D-LCD Video Microscope can be conveniently applied to testing and inspecting in product assembly, research and teaching fields.



PREMIUM

Zoom Body of Zoom Range: 0.7X-4.5X

Zoom Ratio: 1: 6.5

Total Magnification: 3.6X-152.4X (8" LCD)
4.6X-198.1X (10.4" LCD)

Field of View: 1.3mm-57.7mm

Working Distance: 46mm-331mm

Resolution: 640×480 (8" LCD)
1024×768 (10.4" LCD)

Video Angle: 150°

Objective Lenses: 0.3X, 0.5X, 0.75X, 1X(standard),
1.5X, 2X

Power Supply: AC 85-265V, 50/60Hz

LED Ring Light: DC 12V, with adjustable brightness

3D Angle Attachment: 35°for 0.75X objective lens

Laser Pointer: 650nm

Video Output: BNC connector/ S-Video connector

Body Size: Suitable for 76mm scope holder

LCD Video Zoom Microscope Body with reticle function

D-LCD Zoom

Model #	Description
VSS-LC08-TS71	LCD Video Microscope (8" LCD screen)
VSS-LC10-TS71	LCD Video Microscope (10" LCD screen)



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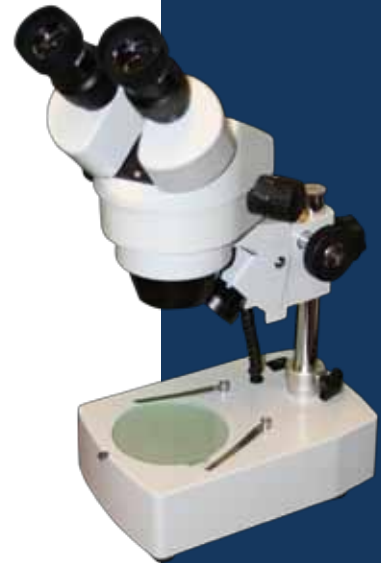
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Z3 DUAL LED

The Z3 on a dual LED light stand is an industrial grade stereo zoom scope designed for “hands under” operation. With the standard 10x eyepieces in place, the magnification range is 7x – 45x. Optional supplementary lenses and eyepieces provide varied working distances and fields of view. Long-life LED illumination eliminates the expense of frequent lamp replacement. Extensive Z3 zoom capabilities and cool, daylight-color LED illumination make the Z3 on the dual LED light stand the perfect choice for industrial inspection or advanced laboratory dissection.



CONSTRUCTION

Aluminum alloy construction
Acid and reagent resistant finish

HEAD

Inclined 45°, rotates 360°
10x / 20 high point eyepieces with
rubber eye guards
Interpupillary distance 54mm-75mm
Trinocular head available

OBJECTIVES

0.7x to 4.5x hard-coated zoom objectives
Standard magnification range is 7x to 45x
Maximum Magnification 180x with optional
lenses

FOCUS

Large dual focusing knobs with metal rack &
pinion
Metal pinion gear zoom mechanism
Maximum height 9 1/2" from stage to scope
body

ILLUMINATION

Dual illuminators with independent switch knob
Transmitted and Incident cool, day light LED

STAGE

Frosted glass stage plate
Black & white contrast plate included

Z3 Dual LED

Model #	Description
Z3M-BZM7-7LL1	Z3 stereo microscope, binocular, dual LED stand, 110V
Z3M-BZM7-7LL2	Z3 stereo microscope, binocular, dual LED stand, 220V
Z3M-TZM7-7LL1	Z3 stereo microscope, trinocular, dual LED stand, 110V
Z3M-TZM7-7LL2	Z3 stereo microscope, trinocular, dual LED stand, 220V

POWER

110V AC (220V optional)

OPTIONS

Pneumatic Arm
5x, 15x, 20x Eyepieces
0.5x, 0.75x, 1.5x, 2x supplemental lens
220V Power Adapter

WEIGHTS AND DIMS

Height: 14"-17.5" (355mm-444mm)
Length: 8.5" (216mm)
Width: 6" (152mm)
Weight: 12lbs (5.4kg)



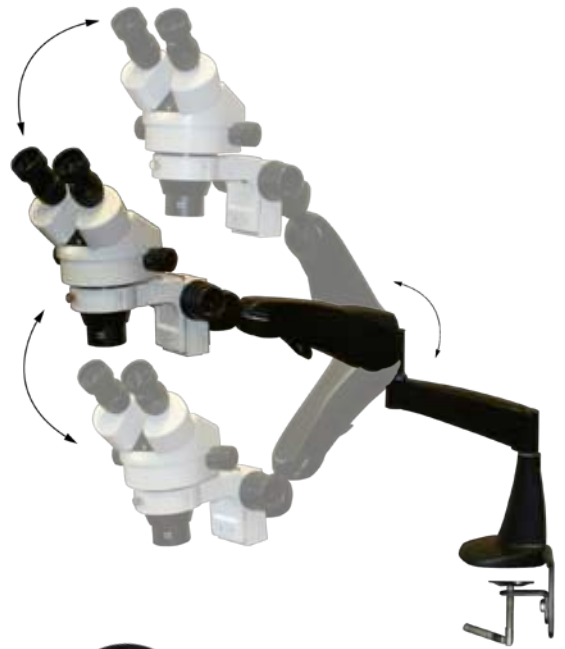
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Z3 on Pneu Flex Arm

Combining powerful Z3 zoom capabilities, with the freedom of movement of a pneumatic arm – the Pneu (new) Flex Arm is a symbol of functionality and ingenuity. Unlike fixed magnification stereoscopes, the Z3 head features a magnification range of 3.5x to 45x to create 3-D depth with ease, and the ability to change and customize magnifications with a simple twist of a knob. Each Z3 Zoom also includes the 0.5x supplementary lens standard. This means your field of view doubles, your magnification options are increased, and your working distance is expanded to create “hands under” workspace. The new pneumatic flex arm allows for vertical, horizontal, and complete 360° adjustments. Control your space, field of view, and sample positioning while knowing that your scope is sturdy and secure – but highly mobile and customizable.



Optional 60 bulb
LED Segmented Ring
Light Available.

ZOOM RANGE

3.5x – 22.5x with included 0.5x reducing lens
and 10x eyepieces
7x – 45x with removed 0.5x reducing lens
and 10x eyepieces
Additional supplementary lenses can expand
range to 2.1x – 270x

FIELD OF VIEW

10mm – 57mm with included 0.5 x reducing
lens and 10x eyepieces
5mm – 30mm with removed 0.5x reducing lens
and 10x eyepieces
Additional supplementary lenses can expand
your field of view to 1mm – 95.2mm

ZOOM RATIO

1: 6.5

WORKING DISTANCE

165mm working distance with included 0.5x
reducing lens
105mm working distance with 0.5x reducing
lens removed
Additional supplementary lenses can expand
your working distance from 30mm to 200mm

Pneu Flex Arm

Model #	Description
Z3M-BZM7-PA77	Z3 on Flex Arm, 0.5x reducing lens, 10x eyepieces (no light)
ILL-LEDS-R603	Segmented Variable LED Ring Light – 60 bulb

INTERPUPILLARY ADJUST.

54mm-75mm

EYETUBE INCLINATION

45°

EYEPIECE DIOPTR CORR.

±5 Diopter

WEIGHT & DIMS.

Z3 Head: 5.6lbs (2.54kg)
Pneumatic Arm: 13.89lbs (6.3kg)
Maximum Radius: 14.96" (380mm)
Minimum Radius: 10.83" (275mm)



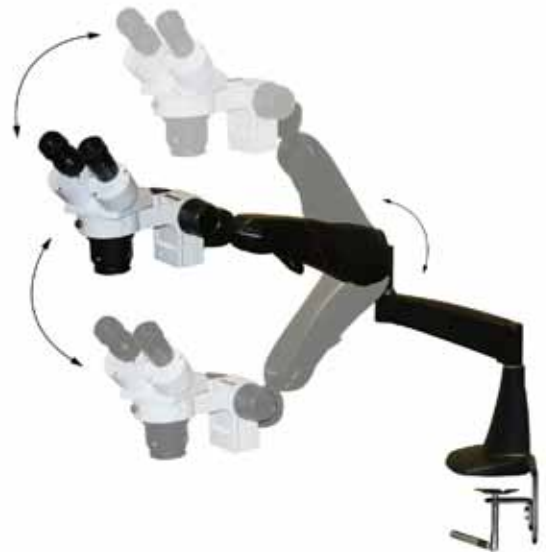
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DM on Pneu Flex Arm

The DM Dual Mag stereoscope together with the Pneu (new) Flex Arm is a symbol of functionality and ingenuity, allowing vertical, horizontal, and complete 360° adjustments. This versatile system gives you control of your space and the knowledge that your scope is secure. The DM's large optics produce increased width, working distance and depth of focus. The included 0.5 supplementary lens doubles your field of view, expands your magnification options, and extends your working distance for hands-under work-space. The recommended 48-bulb LED ring light focuses bright, cool, shadow-free daylight illumination directly onto your work. The DM is the best quality dual-magnification scope in the dental, electronic, and industrial markets.



Optional 48 Bulb
LED Ring Light Available



CONSTRUCTION

Aluminum alloy construction
Acid and reagent resistant finish

HEAD

Binocular, dual mag 10/20, 10/30, 20/40
Inclined 45°, rotates 360°
10X/20 WF eyepieces
30mm eye tube diameter
Interpupillary distance adjustment 55-75mm
Optional 5X, 15X, and 20X eyepieces

OBJECTIVES (3 CHOICES)

1X/2X, 1X/3X, or 2X/4X paired objectives
0.5X supplementary lens included
Protective lens available

ADJUSTMENT CONTROLS

Rack & pinion focusing
Tension adjustment on pneumatic horizontal arm
Adjustable-width c-clamp for mounting to a bench
Optional screw-down table flange for direct bench mount

ILLUMINATION

Ambient bench light may be sufficient
Optional ring lights offer shadow-free illumination and are highly recommended

DM on Pneu Flex Arm

Model #	Description
DMM-S12N-PA77	DM 10X / 20X on Pneu Flex Arm
DMM-S13N-PA77	DM 10X / 30X on Pneu Flex Arm
DMM-S24N-PA77	DM 20X / 40X on Pneu Flex Arm
ILL-LEDV-R483	LED Ring Light – 48 bulb

WEIGHT AND DIMS

DM Head: 2.6lbs (2.54kg)
Pneumatic Arm: 13.89lbs (6.3kg)
Maximum Radius: 14.96" (380mm)
Minimum Radius: 10.83" (275mm)



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DM on Dual LED

The DM Dual Mag stereoscope exceeds the performance demands of educators and is built to withstand daily use by students or hobbyists. Its crisp 3-D optics, dual LED illumination, and large viewing area are excellent for dissecting and inspecting. It will provide extraordinary images and reliable performance for years.

CONSTRUCTION

Aluminum alloy construction
Acid and reagent resistant finish

HEAD

Binocular, dual mag 10/20, 10/30, 20/40
Inclined 45°, rotates 360°
10X/20 locked WF eyepieces
30mm eye tube diameter
Interpupillary distance adjustment 55-75mm
Optional 5X, 15X, 20X eyepieces

OBJECTIVES (3 CHOICES)

1X/2X, 1X/3X, or 2X/4X paired objectives
0.5 supplementary lens and
protective lens available

ADJUSTMENT CONTROLS

Rack & pinion focusing
Pole mount on DM allows for samples up to
4 inches in height

ILLUMINATION

Dual LED top and bottom illumination
Power knob toggles between top, bottom, or both

STAGE

Frosted glass stage plate, 94.5mm
Included black and white reversible stage plate, 94.5mm

POWER

AC 110V ~ 50/60 Hz



DM on Dual LED

Model #	Description
DMM-S12N-7LL1	10X / 20X magnification, dual LED illumination
DMM-S13N-7LL1	10X / 30X magnification, dual LED illumination
DMM-S24N-7LL1	20X / 40X magnification, dual LED illumination

WEIGHT AND DIMS

Height: 14"-17.5" (355-444mm)
Length: 8.5" (216mm)
Width: 6" (152mm)
Weight: 8 lbs (3.63kg)



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DM on Pole Stand

The DM Dual Mag stereoscope on a pole stand goes beyond the demands of educators and is built to withstand daily use by students or hobbyists. Ready for use in the field, the DM's wide-field optics gather ambient light for use without powered illumination, while the pole mount base offers flexibility and portability. The LED ring light options give the DM a 360 degree flood of light for shadow-free illumination of irregular surfaces.

CONSTRUCTION

Aluminum alloy construction
Acid and reagent resistant finish

HEAD

Binocular, dual mag 10/20, 10/30, and 20/40
Inclined 45°, rotates 360°
10X/20 locked WF eyepieces
30mm eye tube diameter
Interpupillary distance adjustment 55-75mm
Optional 5X, 15X, 20X eyepieces

OBJECTIVES (3 CHOICES)

1X/2X, 1X/3X, or 2X/4X paired objectives
0.5 supplementary lenses and
protective lens available

ADJUSTMENT CONTROLS

Rack & pinion focusing with tension
adjustment and slip clutch
Pole mount on DM allows for samples up to
4 inches in height

ILLUMINATION

Ambient bench light may be sufficient
Optional ring lights offer shadow-free
illumination and are highly recommended

STAGE

Frosted glass stage plate, 94.5mm



DM on Pole Stand

Model #	Description
DMM-S12N-PL77	10X / 20X magnification, optional ring light illumination
DMM-S13N-PL77	10X / 30X magnification, optional ring light illumination
DMM-S24N-PL77	20X / 40X magnification, optional ring light illumination

WEIGHT AND DIMS

Height: 12.8" (325mm)
Length: 9" (229mm)
Width: 6.5" (165mm)
Weight: 9 lbs (4.1kg)



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Z2 Zoom

Starting with CAD design techniques, we have manufactured the new Z2 to exceed the clarity and quality of any zoom microscope available today. The depth of focus, field flatness, zoom parfocality and long working distance improve inspection accuracy and flexibility. The high point eyepieces offer ergonomic comfort and allow users to wear eyeglasses. The mechanical two-finger operation is smooth and easy to use, reducing hand strain and improving productivity. The Z2 is the premium choice for industrial inspection or laboratory dissection.

CONSTRUCTION

Aluminum alloy construction
Acid and scratch resistant finish

HEAD

Inclined 45°, rotates 360°
10X/20 WF high point eyepieces with rubber eyeguards
Interpupillary distance 47-78mm
Trinocular available with three eye tubes live

OBJECTIVES

0.65X to 4.5X hard-coated zoom objectives
Standard magnification range is 6.5X to 45X
Maximum magnification 225X

FOCUS

Large dual focusing knobs with metal rack & pinion
Metal pinion gear zoom mechanism
Maximum height 10" (250mm)

ILLUMINATION

Dual illuminators with independent switches
Variable halogen incident light: 12V/20W (MR-11)
Fluorescent transmitted light: 110V/5W

STAGE

Frosted glass stage plate
Black & white contrast plate included

POWER

110V AC (220V optional), 2 amp fuse

OPTIONS

Boom stands, fiber optic illumination, high power lenses



Z2 Zoom

Model #	Description
Z2M-BZM7-7FH1	Binoc head, pole base stand, halogen / fluorescent illumination (top/bottom)
Z2M-TZMC-7FH1	Trinoc head, pole base stand, halogen / fluorescent illumination (top/bottom)
Z2M-BZM7-BM77	Binoc head, boom stand, optional illumination
Z2M-TZMC-BM77	Trinoc head, boom stand, optional illumination

- Industrial/Laboratory Grade
- Zoom Magnification from 6.5X to 45X
- Trinocular Head Boasts "All Three Live"

WEIGHT AND DIMS

Height: 15"(380mm)
Length: 11"(280mm)
Width: 8"(203mm)
Weight: 12 lbs. (5.4kg)



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Video Systems

The Video Zoom is a complete system for dental or industrial inspection. The Video Zoom produces 3-D images through the eyepieces while displaying your work on the screen. Two systems are available, featuring different cameras and illuminators.

OPTICS

Both feature the Z2 Zoom optical head, zooming from 3.25x to 22.5x with included 1/2x reducing lens (and even up to 45x if you need it). Trinocular head provides live images to camera and eyepieces at the same time.

STAND

The black articulating arm extends 3 1/2 feet and includes the heavy table plate. Optional c-clamp, wall flange, and table flange are also available.

CAMERA

DVS-1Z Digital 8mp

The Omnivid is the first "All-in-One" comprehensive microscope camera on the market. It features built-in live video on a bright 2-inch LCD screen, 8 megapixel digital imaging, and MPEG4 video directly onto the included SD memory card.

VS-3Z Live Video

The BioVID features BNC-RCA and S video outputs as well as on-screen programming, allowing the user to modify and improve the image.

*Add the USB-VA to bring the live video signal into your computer.



Z2S-VS3Z-AT71
VS-3Z



Z2S-OS1Z-AT71
DVS-1Z

Video Systems

Model #	Description
Z2S-OS1Z-AT71	Zoom, Boom stand, Fiber optic ring light, OmniVID camera, Software
Z2S-VS3Z-AT71	Zoom, Boom stand, LED ring light, BioiVID camera, Software
BVP-UVCD-SFT3	USB Video Adapter with software

LIGHT

DVS-1Z Digital 8mp

Fiber optic ring light provides super-bright 150 watt light, 360 degree ring of cool light to virtually eliminate shadows.

VS-3Z Live Video

Variable LED ring light features 60 bulb 6400K daylight color, for true matching.



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Inspection Systems

ZOOM OPTICS

3.25X-22.5X with included 1/2X reducing lens
 Long 7in working distance with 1/2X reducing lens
 6.5X-45X with reducing lens removed

ILLUMINATION

Choose from our segmented LED ring light, fluorescent ring light, fiber optic ring light or dual gooseneck

LED Ring Light: 60 bulb LED bulbs produce a “focused” light with day-light color, with near intensity of fiber optics light source.

Fluorescent Ring Light: 10 watt fluorescent ring light offers shadow-free light source white illumination.

Fiber Optic Light: Provides bright 150 watt light through a fiber optic ring light guide that projects a 360° ring of cool light that virtually eliminates shadow. Also choose the flexible dual gooseneck light guide that allows for oblique angle light control.



Model #	Description
Z2S-IS1Z-AT71	Z2 Binoc, 1/2x lens, Fiber Optic Ring Light, Articulating Heavy Boom Stand
Z2S-IS2Z-AT71	Z2 Binoc, 1/2x lens, Fiber Optic Dual Goose, Articulating Heavy Boom Stand
Z2S-IS3Z-AT71	Z2 Binoc, 1/2x lens, Fluor Ring Light, Articulating Heavy Boom Stand
Z2S-IS4Z-AT71	Z2 Binoc, 1/2x lens, 60 Segmented LED Ring Light, Articulating Heavy Boom Stand



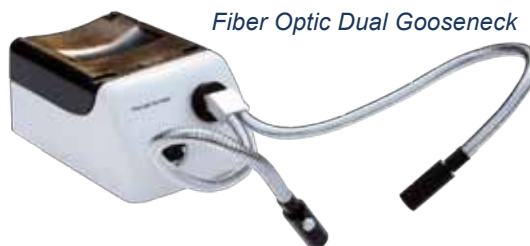
60 Bulb Segmented LED Ring Light



Fluorescent Ring Light



Fiber Optic Ring Light



Fiber Optic Dual Gooseneck



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Fluorescent and LED Ring Lights

Fluorescent and LED ring lights offer shadow-free cold illumination with super-long-life bulbs at a reduced cost. Long thumb screws allow for easy attachment to almost any brand of microscope. The newly-redesigned fluorescent ring light is the most affordable option, and the LED models produce the most intense, focused illumination with 10,000-hour white LED bulbs. The economical 48-bulb LED ring light features variable intensity control, and the new 60-bulb LED ring light is variable and programmable for segmented quadrants to cast shadows when necessary.

FLUORESCENT

- 10-watt, 6400K bulb
- 110v (220v) AC input
- Spare bulb included
- Fits 42mm-70mm mount rings
- Boxed: 0.8 lb
- 13.5" x 7.5" x 2.5"



LED Ring Light



Fluorescent Ring Light

LED

- 48 bright white focused LED bulbs
- 110v / 220v auto switching
- 1 amp fuse
- Adjustable dimmer
- Fits 36mm-61mm mount rings
- Boxed: 0.6 lb
- 9" x 8" x 2"

Fluorescent and LED Ring Lights

Model #	Description
ILL-FLR7-1071	Fluorescent Ring Light 10w (non-variable)
ILL-LEDV-R483	LED Ring Light, Variable, 48 bulb
ILL-LEDS-R603	Segmented Variable LED Ring Light - 60 bulb

SEGMENTED LED

- Segmented quadrants for shadowing
- 60 bright white focused LED bulbs
- 110v / 220v auto switching
- 1 amp fuse
- Adjustable dimmer
- Fits 40mm-60mm mount rings
- Boxed: 0.8 lb
- 9" x 8" x 2"

Segmented Ring Light



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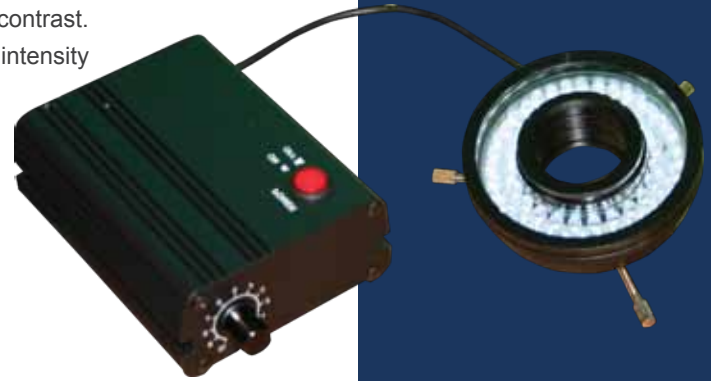
Polarizing Ring Light

POLARIZING LED

LW Scientific LED ring light with Polarizing filters is perfect for glare-free illumination under inspection microscopes. This polarizing LED light reduces glare from reflective surface while allowing illumination from LEDs to pass through polarizing filters to illuminate the object. Rotating the outer ring aligns the analyzer with the polarizer and results in images with minimal glare and greater contrast. The polarizing filter attachment can be removed to get maximum light intensity from your LED light.

SPECIFICATIONS

60 bright white focused LED bulbs
110v / 220v auto-switching
Control box with dimmer
Polarizing filter assembly
Fits 27mm - 61mm mount rings



WEIGHT AND DIMS

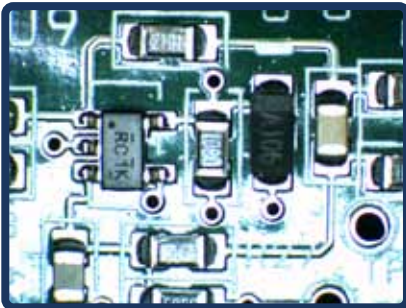
Boxed: 2lbs (0.9kg)
Size: 10" x 8" x 2.5"

Polarizing LED

Model #	Description
ILL-LEDV-POL3	Polarizing Variable LED Ring Light

COMPARE

Without Polarizer



With Polarizer



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Fiber Optic Illuminators

The Alpha 1502 fiber optic illuminator produces 150-watt shadow-free cold illumination. The easy-access hinged bulb door allows you to change a bulb or insert one of the included colored filters with ease. Choose from either the dual gooseneck light guide (which includes focusing tips) or the ring light illuminator. The unit also includes special heat blocking guards to keep the unit cool and safe.

LAMP

EKE 150W 21V quartz halogen
40,000 foot candles
200 hours at full intensity
3200°K

ELECTRONICS

Voltage: 85-265V 50-60Hz
(automatic switching)
Variable Intensity Control (0-100%)
Fuse: 3.15 amp
Low-heat solid state electronics

FEATURES

Unit remains cool to the touch during use
Heat-blocking IR glass lters installed
Compact and lightweight
Internal cooling fan

DIMENSIONS AND WEIGHT

Height: 5.5" (178mm)
Length: 10.5" (267mm)
Width: 7" (127mm)
Weight: 6lbs. (2.7kg)



Alpha 1502

Model #	Description
ILP-1502-LTS1	Alpha 1502 150w fiber optic light source
ILP-1502-DGGF	Dual gooseneck light guide with focusing tips for Alpha 1502
ILP-1502-RLG7	Ring light guide for Alpha 1502



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BioVID HD Camera

The BioVID is now High Def! With simplistic controls, compact design, and C-mount connection, it literally is ready right out of the box! The BioVID-HD has true 1280 x 720 resolution, increased sensitivity, low-noise, and great color rendition – creating stunning, high resolution images with smooth live image display. Whether in a large lecture hall, classroom, operating room, or (hospital) lab, the BioVID-HD offers exceptional features ideal for a variety of applications in bright field, dark field, phase contrast, and even *Epi-Fluorescence. This lightweight and compact, but powerful, next generation of BioVID camera will certainly set a new industry standard.

*Ask an LWS representative how the BioVID-HD can be programmed for FM.



RESOLUTION

16:9 Format 720p

IMAGE SENSOR

1/3" Interline SXGA CCD
(ICX445AQA)

VIDEO OUTPUT

DVI compliant, RGB,
1280 (H) x 720 (V), 60 Hz / 50 Hz

CHARACTER GENERATOR

Built-in character generating function via the UART communication

POWER

9Vdc to 15Vdc (Typically: 12Vdc)
< 3.0 W

OPERATING COND.

Operational: 0°C ~ 45°C (32°F to 113°F)

OUTPUT

HDMI connector

BUTTON

One push button; Initial press button function: push-to-set white balance; Initial hold button function: Auto white balance

MINIMUM ILLUMINATION

5 Lux at F1.2 at 50% IRE; AGC ON and 1/60 second shutter speed

BioVID

Model #	Description
BVC-HDMI-CMT3	BioVID HD video camera w/ power cord and HDMI cable

- Great for Research, Pathology, Cytology, Oncology, Hematology, Optometrists, In Vitro Fertilization, industrial/manufacturing, and dental applications
- Includes camera, power cord, and HDMI cable

SHUTTER SPEED

Up to 1/100,000 seconds at 60Hz or up to 1/83,947 seconds at 50hz

WHITE BALANCE

Auto / Manual / Push-to-set White Balance selectable via the UART communication

WEIGHT AND DIMS

Height: 1.57" (40mm)
Length: 1.8" (45.8mm)
Width: 1.57" (40mm)
Weight: 0.26lbs. (120g)



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BioVID Camera

The BioVID features BNC-RCA and S video outputs as well as on-screen programming, allowing the user to modify and improve the image. Connect the camera to your trinocular microscope with a C- or CS-mount or use the included macrolens and eyepiece adapter to work with a variety of optical equipment. The BioVID camera will connect over the eyepiece of any monocular or binocular microscope for live video microscopy. Optometrists and ophthalmologists can connect the BioVID directly to their slit lamps for prediagnostic exams. The BioVID is an excellent tool for demonstrations in medical, laboratory, and industrial inspection applications.



TEXT DISPLAY

24 alphanumeric characters
(ON/OFF selectable)

BACKLIGHT COMP.

ON/OFF selectable
(6 sensing zones)

SPECIAL MENU

Gamma, color adjustment, sharpness, contrast, brightness, flickerless and preset

LENS

C/CS mount
F1.2
8mm
Manual iris

POWER

DC12V~DC13V
2.5 Watt

OPERATING COND.

-10°C to +50°C (14°F to 122°F)
Less than 85% relative humidity

SIGNAL SYSTEM

NTSC or PAL available

OUTPUT

S video, BNC composite

HORIZONTAL RESOLUTION

470 TV lines

BioVID

Model #	Description
BVC-CN13-CMT1	BioVID video camera w/ lens and eyepiece adapter

- A "Must Have" for Microscope Owners
- Specialized Tools for Adjusting and Aligning
- Detailed Picture Instruction Manual

SENSITIVITY

0.8 lux

ELECTRONIC SHUTTER

Off/auto/manual

WHITE BALANCE

Selectable auto-tracking (ATW), preset (AWC), and manual

WEIGHT AND DIMS

Height: 1.6" (41mm)
Length: 2.1" (51.6mm)
Width: 1.6" (41mm)
Weight: 0.31lbs. (140g)



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OmniVID Camera



With upgraded MicroCap software Version 3.0 the OmniVID includes comprehensive measuring capabilities with saved calibrations for multiple microscopes. Connect to any size TV for training large groups, or connect to a PC for capturing digital images or digital video in the easy-to-use MicroCap V3.0 measuring software. Use the wireless remote control to snap pictures or access the menu and playback modes. The Omnivid mounts directly onto any microscope trinocular head with C-Mount threading. The OmniVID camera on an LW Scientific microscope is the ultimate microscopic imaging solution.



CAMERA

Sensor resolution: 3.1 megapixel
Maximum resolution: 8 megapixel
LCD screen size: 2 inch LTPS
Memory card: SD/MMC card
USB interface: Yes
TV output: NTSC/PAL
Controller: Remote and USB shutter
Power Supply: DC 12V 1.5A
Picture Format: JPEG
Video Format: MPEG4
Printer support: PictBridge and DPOF
Mount: C-Mount
Optional stage micrometer available for calibrating multiple microscopes

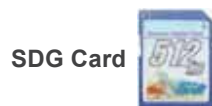
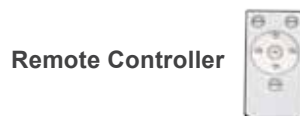
OmniVID

Model #	Description
OVC-8MP2-CMT3	Omni-VID C-mount camera with built-in screen

SOFTWARE

MicroCap V3.0

ACCESSORIES



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MiniVID Camera

The MiniVID eyepiece camera is available with an RCA output or USB connection. Plug it in to your TV, VCR, or computer. Then, attach it to any microscope for instant video micrography. The innovative MiniVID camera slips into any standard microscope eyepiece tube, in place of the eyepiece or fits onto any standard threaded c-mount.

MINIVID USB

Image Sensor

1/2.2" color CMOS chip – 5mp

Max Pixels

2592 X 1944 pixels

Sensitivity

1.2 Lux

Interface

USB 2.0

Exposure

Automatic

Saved Picture File Format

BMP, JPG

System Requirement

Windows 98, 7, XP, or Vista

Software

Scopephoto Senior micro-image analysis software

Mounting Requirements

Standard eyetube (23mm and 30mm)

Standard c-mount (threaded)



MVC-U5MP-EMTN



MiniVID

Model #	Description
MVC-U5MP-EMTN	MiniVID USB 5MP Digital Eyepiece Camera
MVC-RN77-EMT1	MiniVID RCA Eyepiece Camera

MINIVID RCA

Image Sensor

1/3 inch color CMOS chip

Output

6-foot cord with composite video (RCA)

Sensitivity

5 lux

Signal

NTSC or PAL available

Power

9V DC < 1amp

Includes 110V AC adapter, 220V available



MVC-RN77-EMT1



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d-VID USB Camera

An excellent, easy to use handheld digital microscope with USB output interface. High resolution magnification at your fingertips! Real examination of any sector that you prefer. Included with each d-VID digital microscope is software, which leads you to "capture" either a photograph, video time-lapsed video with a simple click.

SPECIFICATIONS

Magnification: 5x-200x @ 17" monitor full screen view

Optical Format: 1/3" CMOS Sensor (4:3)

Field of View:

Min.: 2.5 mm x 1.9 mm @ 17 mm working distance (200x)

Max: 100mm x 76mm @300 mm working distance (5x)

Image Sensor: 2.0 Mega pixels

Video Capture Resolution: 1600x1200, 1280x960, 640x480

Color: 24bit RGB or YUV or MJPG

Lens: High Precision Microscope Lens

Focus Range: 8mm to 300 mm

White Balance: Auto

Exposure time: Auto

Light Source: Integrated adjustable LED illumination

Length: 122mm

Diameter: 36mm

Output: USB streaming video

Power supply: 5V DC from USB port



Model #	Description
DVC-U2MP-HH73	2.0 mega pixel, hand-held USB camera

INDUSTRIES

Hobbyist



Dental



Electronics



Dermatology



Industrial



Educational



SYSTEM REQUIREMENTS

CPU Pentium / Celeron / AMD 1.0G or above

Windows XP SP2/Vista or 7

Available USB 2.0 or 1.1 port

VGA Card: 16 bit or above

CD-ROM drive


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FEATURES

High Magnification

Color

Takes pictures and records videos

Easy to operate

White LED light

Measuring capability

Cost



BENEFITS

- Super clear, high-clarity, close-up images for perfect detail when documenting margins, impressions, waxing, dissections, amount of reduction, etc.
- Though not recommended for shading. The d-VID produces vivid color.
- Labs and doctors can review the case instantly through email or live chat (Skype).
- Includes auto-load software
- Installs in minutes
- Plug it in and you are ready to go
- Point and click for digital pictures instantly
- Hand-hold or mount on tripod (included)
- 8 LED light bulbs
- Adjustable intensity
- Shadow free
- Edit photos, draw arrows, add text, measure from point A to point B
- Radius circle, diameter circle, three point circle, rectangle angle, polygon, line, text.
- Affordable to any size lab
- Similar quality and higher resolution than cameras costing \$400-\$500

Centrifuges



Model	Ultra 8 Variable	Ultra 8 Digital	E8 Fixed	E8 Variable	Portafuge
Model #	ULC-08AV-1501	ULC-08AD-1501	E8C-08AF-1501	E8C-08AV-1501	E8C-08AF-150P
Type	Test Tube	Test Tube	Test Tube	Test Tube	Test Tube
Features	Variable Speed	Programmable	Fixed Speed	Variable Speed	Fixed Speed
Capacity	8 place X 15ml	8 place X 15ml	8 place X 15ml	8 place X 15ml	8 place X 15ml
Tube Size Min/Max	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 17 X 130mm
Max g	1400	1400	1400	1400	1500
Max Speed (rpm)	3300	3300	3300	3300	+/-3300
Uses	Blood, Urine, Semen, Fecal	Blood, Urine, Semen, Fecal	Blood Only	Blood, Urine, Semen, Fecal	Blood Only



Model	C3 Select	C5	C5 - 24 Place	CxR
Model #	C3C-08SS-1501	C5C-08SU-15T3	C5C-BKSU-15T3	CXC-06SF-1501
Type	Test Tube Swing Out	Test Tube Swing Out	Test Tube Swing Out	Test Tube Swing Out
Features	Selectable Pre-set Speeds to 3300	5000 RPM Programmable	5000 RPM Programmable	3400 RPM Short Profile
Capacity	8 place X 15ml *4 place X 50ml	8 place X 15ml *4 place X 50ml	24 X 2.5-10ml *4 place X 50ml tube inserts	6 place X 15ml
Tube Size Min/Max	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 16 X 130mm	10.25 X 65mm / 17 X 130mm	10.25 X 65mm / 16 X 130mm
Max g	1500	4000	4000	1800
Max Speed (rpm)	3000	5000	5000	3400
Uses	Blood, Urine, Semen, Fecal	Blood (STAT), Urine, Semen, Fecal, Hematocrits, PRP/PPP, Stem-Cell, Irap	Blood (STAT), Urine, Semen, Fecal, Hematocrits, PRP/PPP, Stem-Cell	Blood Only



*Optional Features

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Centrifuges



Model	V24 Combo	V24 Combo Tach	M24 Hematocrit	Zipocrit	ZipSpin
Model #	CMC-24AV-1501 (choose rotor)	CMC-24AV-15T1 (choose rotor)	HEC-24HF-7501	ZPC-04HF-750P	ZPC-06AF-020P
Type	Combination	Combination	Microhematocrit	Microhematocrit	Microcentrifuge
Features	Test Tube & Microhematocrit	Test Tube & Microhematocrit	Heavy Duty 24 Place	Portable angled hematocrit	Portable 6 & 12 place rotors
Capacity	24 X 15ml or 24 X 75mm	24 X 15ml or 24 X 75mm	24 X 75mm	4 X 75mm	(6 & 12) X 2ml
Tube Size Min/Max	10.25 X 65mm /17X130mm or 75mm capillary	10.25X65mm / 17X130mm or 75mm capillary	75mm capillary (only)	75mm capillary (only)	0.5ml / 2.0ml
Max g	2450 - 14900	2450 - 14900	14900	4400	2800
Max Speed (rpm)	4000 - 12000	4000 - 12000	4000 - 12000	10000	0-7000
Users	Blood, Urine, Semen, Fecal, Hematocrits, DNA Separation	Blood, Urine, Semen, Fecal, Hematocrits, DNA Separation	Hematocrits Only	Hematocrits Only	Blood, Urine, DNA Separation



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C5

Horizontal separation offers many advantages over traditional fixed-angle separations, including tighter straight-line gel separations to reduce re-spins and re-mixes. The C5 spins test tubes, up to 17.5 x 128mm, at speeds up to 5,000 rpm, with microprocessor speed control. Simply program the digital time and speed and the C5 will lock the lid and spin the load. G-forces up to 4,000g's will produce platelet-poor-plasma in minutes. The zero-rpm interlocking metal lid will stay locked until the rotor has come to a stop, to ensure safety. The all-metal rotor and tube shields are built for strength and durability, and the wide-mouth metal bowl allows for easy cleanup. The whisper-quiet heavy-duty brushless DC motor can handle high volume use and high-speed full loads for years to come.

ADVANTAGES

Straight-line separation for accurate processing
 Reduces high potassium results
 Tighter gel line reduces re-mixing
 Eliminates most re-spins
 Very high g-forces for fast separation
 Fast and accurate veterinary fecal flotations
 Platelet-poor-plasma in minutes



CRIT Carrier
 Patent Pending **For Vet Use Only**



CE



Designed, Engineered & Assembled
 Proudly in America

DESIGN FEATURES

Rubber feet to prevent slipping
 Impact-resistant lid with view port
 Zero-rpm interlocking lid
 Wide mouth for easy clean-up
 Metal rotor and tube shields

SPECIFICATIONS

800-4,000 rpm (2,500g)
 Brushless DC motor (220V available)
 Programmable time and speed
 Dual-fuse input module (5a/250v)
 8 place test tube rotor (5,000 rpm/4,000g)

Optional rotors:

4 place 50ml tube rotor (5,000 rpm/4,000g)
 24-place swing-out bucket rotor
 -Holds 24 2.5ml-10ml test tubes
 -Holds 8 2.5ml-15ml conical urine tubes

CONTROLS

Touch-pad time and speed controls
 4-character digital display screen
 Digital 1-60 minute programmable timer
 800-5,000 rpm programmable speed

C5

Model #	Description
C5C-08SU-15T3	Swing-out, 8-place
C5C-04SU-50T3	C5 with 50ml, 4 place rotor
C5C-BKSU-15T3	C5 with 24-place rotor
C5A-04CC-PR77	Crit Carrier for spinning hematocrits

- Horizontal swing-out centrifuge
- Whisper-quiet brushless DC motor
- Priced perfectly for clinics

INCLUDES

3-prong power cord
 8 tube shields
 8 tube cushions (for shorter tubes)

WEIGHT AND DIMS

Height: 12.63" (320 mm)
 Length: 18.13" (460 mm)
 Width: 15.5" (393 mm)
 Weight: 39 lb (17.7 kg)
 (Weight does not include rotor)

The BEST way to
 achieve your blood
 samples STAT!



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C3 Select

Horizontal separation offers many advantages over traditional fixed-angle separations, including tighter straight-line gel separations to reduce re-spins and re-mixes. Additionally, spun fecal floatations in the veterinary markets produce much higher ova recovery results when spun with coverslips on top of the test tube. The C3 Select spins 3ml-15ml test tubes, up to 17mm x 128mm, at speeds up to 3,000 rpm. Select either blood, urine, or fecals on the speed control, set the 30-minute timer, and the C3 Select will spin at the correct speed. The all-metal rotor is built for strength and durability, and the wide-mouth metal bowl allows for easy cleanup. The whisper-quiet, brushless, heavy-duty motor can handle high volume use and high-speed full loads for years to come.

ADVANTAGES

- Straight-line separation for accurate processing
- Pre-calibrated blood, urine, and fecal speeds
- Reduces high potassium results in blood
- Tighter gel line reduces re-mixing
- Veterinary fecals spin with coverslips on the tube
- Much higher ova recovery than standing fecal tests

DESIGN FEATURES

- Rubber feet to prevent slipping
- Metal-framed lid with view port
- Locking lid with push-button release
- Lid safety shut-off switch
- Wide mouth for easy clean-up
- Plastic rotor and bowl

SPECIFICATIONS

- Selectable 3-position Speed Control
 - 3,000 rpm for blood - 1,500 g
 - 1,600 rpm for urines and semen - 400 g
 - 1,300 rpm for fecals - 280 g
- Front-access calibration panel
- Brushless, maintenance-free 110V motor (220V brushed motor available)
- 8 test-tube (3ml-15ml) capacity
- 4-place 50ml rotor available
- Maximum tube size 17.5mm x 133mm
- One 5amp / 250 volt fuse, plus a spare

CONTROLS

- 1-30 minute mechanical timer
- 3-position speed control
- On/off switch on back



C3 Select

Model #	Description
C3C-08SS-1501	Swing-out, 8-place, selectable-speed centrifuge
C3C-04SS-5001	C3 with 50ml, 4 place rotor

- Horizontal Swing-out Centrifuge
- Selectable Speeds for Blood, Urine, Fecals
- Economically priced for clinics

INCLUDES

- 3-prong power cord
- 8 tube shields
- 8 tube cushions (for shorter tubes)

WEIGHT AND DIMS

- Height: 12" (305mm)
- Length: 18" (457mm)
- Width: 14.5" (368mm)
- Weight: 33 lbs (15kg)



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CxR

Horizontal centrifugation offers advantages over traditional angled-rotor centrifuges, such as tighter straight-line gel separations, fewer re-spins and re-mixes, and fewer high-potassium results. The new CxR centrifuge delivers 1800 G-Force for quick spin down of serum-separator blood tubes. Low-maintenance features: self contained rotor, whisper-quiet operation, brushless no-maintenance motor, automatic braking, simple operation...set the timer and go!

ADVANTAGES

Low profile Saves Counter Space
Tight gel line separation
– easier reads, and reduced re-mixes
6 Tube Capacity (accommodates 3-15ml tubes)
Large 17.5mm x 125mm tube capacity

SPECIFICATIONS

Fixed speed - 3400rpms
1800 G-Force
Brushless maintenance-free motor
6 Place (3-15 ml tube) rotor
Horizontal spin down
Front access timer control knob

CONTROLS

15 minute mechanical timer
On/off switch on back

WEIGHT AND DIMS

Height: 8.75"
Length: 15"
Width: 13.5"
Weight: 23.6 lbs
Height w/ lid open: only 19.75"



CxR

Model #	Description
CXC-06SF-1501	6 place horizontal swing out centrifuge

•Economically priced for reference labs!



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Ultra

The 8-place Ultra centrifuge has a unique, space-saving triangle shape to fit easily into a corner. This unit, made of sturdy aluminum alloy, accommodates most test tubes from 3ml-15ml. The wide stance eliminates wobble, while the suction-cupped feet prevent slipping. The brushless motor (110V only) is virtually maintenance-free and the clear lid allows easy viewing of specimens while in use.

Choose from two different models to meet your laboratory separation needs.

ADVANTAGES

- Accurate speeds for specific g-forces
- Proper separations without cell damage
- Ideal for blood, urine and other fluids
- Quiet, vibration-free operation
- Unique space-saving triangle design

FEATURES

- 8-tube capacity - 3ml to 15ml size tubes
- Auto-off 30-minute timer with bell
- Brushless motor (110V only) - maintenance free
- Blue LED power indicator light
- Suction-cupped feet prevent slipping
- All-metal one-piece body
- 110V power (220V available)

ULTRA VARIABLE

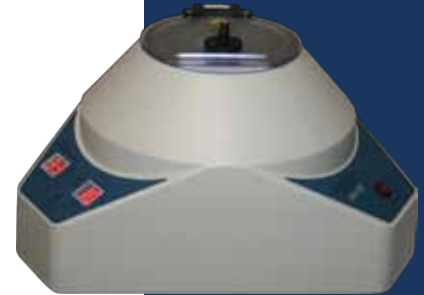
- 3,300 rpm variable speed - blood, urines, etc.
- Timer and lid safety shut-off switch
- Maximum RCF=1,350 g

ULTRA DIGITAL

- Programmable speed control
 - blood, urines, semen, fecals, etc.
- Timer and lid safety shut-off switch
- Maximum RCF=1,350 g

INCLUDES

- Eight-place tube rotor
- Eight 15ml tube sleeves (ULP-TBS7-15PL)
- Eight 13x75mm tube sleeve inserts (ULP-TBS7-03PL)



Ultra

Model #	Description
ULC-08AV-1501	Variable Speed
ULC-08AD-1501	Programmable Speed

WEIGHT AND DIMS

- Height: 9" (230mm)
- Length: 13" (330 mm)
- Width: 13" (330mm)
- Weight: 15.5 lbs (7kg)



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E8

The 8-place E8 centrifuge is an economical fixed speed centrifuge designed to fit any budget. This unit accommodates most test tubes from 3ml - 15ml. The wide stance eliminates wobble, while the suction-cupped feet prevent slipping. The brushless motor (110V only) is virtually maintenance-free and the lid port allows easy viewing and tach-ing of specimens while in use. Choose from 2 different models to meet your laboratory separation needs.

ADVANTAGES

Accurate speeds for specific g-forces
Proper separations without cell damage
Ideal for blood, urine and other fluids
Quiet, vibration-free operation
Unique space-saving triangle design

FEATURES

8-tube capacity - 3ml to 15ml size tubes
Auto-off 30-minute timer with bell
Brushless motor (110V only) - maintenance free
Blue LED power indicator light
Suction-cupped feet prevent slipping
110V power (220V +/- 10% available)

E8 VARIABLE

3,300 rpm variable speed - blood, urines, etc.
Timer and lid safety shut-off switch
Maximum RCF=1,350 g

E8 FIXED

3,300 rpm fixed speed - for blood only
Auto-of 30-minute timer with bell
Maximum RCF=1,350 g

INCLUDES

Eight-place tube rotor
Eight 15ml tube sleeves (ULP-TBS7-15PL)
Eight 13x75mm tube sleeve inserts (ULP-TBS7-03PL)



E8

Model #	Description
E8C-08AV-1501	Variable Speed
E8C-08AF-1501	Fixed Speed

- One-Piece Design
- 2 Models to Meet Any Lab Need
- Locking Lid for Safety

WEIGHT AND DIMS

Height: 10" (254mm)
Length: 10" (254mm)
Width: 10" (254mm)
Weight: 11 lbs (5kg)



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Portafuge

The portable 8-place Portafuge is an economical fixed speed centrifuge designed for spinning on the go*. This unit accommodates most test tubes from 3ml – 15ml. This unit is virtually maintenance-free and the lid port allows easy viewing and tach-ing for calibration. Simply insert the cigarette plug into your car's power outlet for quick blood separation at 3100+ rpm (+/- 10%).

***Do not operate centrifuge while driving.**

ADVANTAGES

Portable, 12 v unit, works in any car
Light weight
Quiet, vibration-free operation
Space-saving design

FEATURES

Rubber feet to prevent wobble
8-tube capacity - 3ml to 15ml size tubes
12v DC motor - maintenance free
Blue LED power indicator light
Suction-cupped feet prevent slipping
80 watt power requirement
Maximum RCF=1300-1500 g
3000-3500 rpm fixed speed - for blood only
(speed may vary by car model)
Auto-off 30 minute timer with bell
45° Angled rotor

INCLUDES

Eight-place tube rotor
Eight 15ml tube sleeves
Eight 13x75mm tube sleeve inserts
Lid Safety Switch

WEIGHT AND DIMS

Height: 10" (254mm)
Length: 10" (254mm)
Width: 10" (254mm)
Weight: 11 lbs (5kg)



Portafuge

Model #	Description
E8C-08AF-150P	Portafuge centrifuge, fixed speed

ACCESSORIES



PTA-ADBA-12V7
12 volt battery clamps



E8P-ADWL-12V8
AC-DC power adapter



E8P-HLD7-CAR7
Car seat


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Benefits of Mobile Centrifugation

Home-health nurses and medics often draw blood from patients to run lab tests. Common serum tests are:

- ***CMP** – Comprehensive Metabolic Profile, runs 14 different tests.
- ***BMP** – Basic Metabolic Profile, runs 8 different tests.

Are you spinning down your tubes within one hour?

It is highly recommended that CMP and BMP tubes be spun within one hour otherwise glucose test results may be falsely low, and potassium test results may be falsely high. To solve this issue home-health nurses often travel out to a home, back to the lab, out to the next home, back to the lab, etc. **If centrifugation is not possible within 1 hour, the nurse may need to draw an additional Sodium Fluoride preservative tube to attain accurate Glucose test results, adding more time and expense.**



WITHOUT A PORTABLE CENTRIFUGE EXPECT

- Higher costs for additional reagents
- Higher costs for more test tubes and supplies
- Higher costs for additional lab testing
- Higher travel expenses
- Fewer home patient visits per day
- Less accurate lab test results

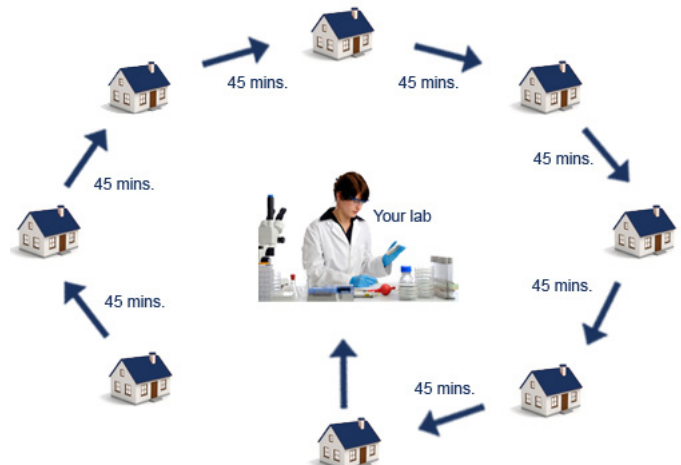
WITH THE PORTAFUGE EXPECT

- Twice the customers per day
- Reduced miles
- Lower costs for tubes and reagents
- More accurate lab test results
- More satisfied patients
- Greater profit

Without Portafuge



With Portafuge



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Combo V24

Accomplish both test tube and microhematocrit separations with the new Combo centrifuge. Simply choose a box (with or without a digital tachometer) and choose your rotors. The Combo spins either test tubes, capillary tubes or microtubes by simply changing rotors — no tools required! Achieve hematocrit separations in less than five minutes at 12,000 rpm; then accurately determine results with the included reader disc. Other features include variable speed control, 30-minute timer, rubber feet, and all-metal body construction.

ADVANTAGES

- One unit for all centrifuge needs
- Fast spin, fast stop, fast read
- Variable speed
- Optional tachometer
- Quiet vibration-free operation

FEATURES

- Suction-cupped feet to prevent slipping
- Impact-resistant safe-view lid
- All-metal body construction
- Cooling fan for motor compartment
- Heavy duty high-speed motor
- Safety shut off switch in lid
- Locking lid
- Wide mouth for easy clean-up

SPECIFICATIONS

12,000rpm on High speed setting

- Microhematocrit rotor: 14,500g
- Microtube rotor: 12,900g

4,000rpm on Low speed setting

- Test tube rotor: 2,415g

CONTROLS

- Illuminated power switch
- Electric brake for quick stop
- High/low speed setting switch
- Auto-off 30 minute timer with bell
- Variable speed control

WEIGHT AND DIMS

Height: 11" (277mm)
Length: 17" (432mm)
Width: 14" (355mm)
Weight: 31.3 lbs (14.2kg)



Combo V24

Model #	Description
CMP-BX77-7701	Combo centrifuge box with variable speed dial, timer, and brake (no tachometer)
CMP-BX77-77T1	Combo centrifuge box with digital tachometer, variable speed dial, timer, and brake

- Spin Hematocrit or Test Tubes
- Easy-Change Rotors
- Tachometer Option for Exact Force

CHOOSE THE ROTORS



CMP-RT24-75HE

Spin standard 75mm capillary tubes with the 24-place microhematocrit rotor. Results can be read directly from the rotor with the included reader disk.



CMP-RT24-02MT

The 24-place microtube rotor holds 1.5 to 2 ml sized tubes.



CMP-RT12-15TT

The 12-place test-tube rotor holds 3ml-15ml sized tubes with included tube shields and inserts for smaller tubes. 24 place rotor also available.



CMP-RT24-15TT

The 24-place test-tube rotor holds 15ml sized tubes with included tube shields and inserts for smaller tubes. 12 place rotor also available.



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M24

The M24 centrifuge is a truly affordable microhematocrit centrifuge. This unit is designed for its ease of use in the laboratory. Spin hematocrits in less than 5 minutes at 12,000 rpm. The M24 has a microhematocrit reader disk provided with every unit. Read the tubes directly on the rotor without picking them up.

ADVANTAGES

Fast results in just five minutes
Spins 24 standard 75mm capillary tubes
Ready-to-use...no add-on costs
Quiet, vibration-free operation
Reader disk included

FEATURES

Impact-resistant safe-view lid
All-metal body construction
Cooling fan for motor compartment
Aluminum rotor for low heat transfer
Heavy duty high-speed motor
Safety shut-off switch in lid
Locking lid
Wide mouth for easy clean up

SPECIFICATIONS

12,000 rpm fixed speed
Nominal RCF=14,800 g
Brushed motor
110V AC (220V AC available)

CONTROLS

Illuminated power switch
Electric brake for quick stop
Auto-off 15-minute timer with bell

INCLUDES

24-place hematocrit rotor
Reader disk— read tubes directly on the rotor



M24

Model #	Description
HEC-24HF-7501	Microhematocrit centrifuge

- 24-Place Microhematocrit Centrifuge
- Affordable
- Results in Less Than 5 Minutes

WEIGHT AND DIMS

Height: 10" (235mm)
Length: 13" (330mm)
Width: 12" (304mm)
Weight: 23 lbs. (10.4kg)



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Zip Series

ZIPSPIN

- Portable and compact microcentrifuge
- Perfect for medical missionaries or field veterinarians
- 6-place rotor for 1.5 and 2ml microtubes
- 12-place rotor for 0.5ml microtubes
- Powered by maintenance-free brushless motor
- Variable speed: 0-7,000 rpm
- RCF up to 2,800g
- Designed for:
 - Cell separations
 - Microfiltration of HPLC samples
 - DNA preparations
- Small footprint to conserve space
- Safety switch lid
- Strobe-through transparent lid for exact speed
- Ideal for cold room applications
- LED power indicator light
- Durable lightweight aluminum alloy construction
- DC 12V power (AC adapter power cord included)
- Optional 12V DC car battery cables and 220V AC adapter power cord available



Zip Series

Model #	Description
ZPC-06AV-0203	ZipSpin centrifuge
ZPC-04HF-7503	Zipocrit centrifuge

ZIPOCRIT

- Portable and compact microhematocrit centrifuge
- Perfect for medical missionaries or veterinary field work
- Spins four 75mm capillary tubes in angled rotor
- Mylar-coated or plastic capillary tubes recommended - vial of 200 tubes included; Critoseal clay available
- Powered by a maintenance-free brushless motor
- Speed: 10,000 rpm
- RCF: 4,400g
- Fifteen minute timer - separations in five minutes
- Designed with a small footprint to conserve space
- Safety switch lid
- Strobe through transparent lid for exact speed
- LED power indicator light
- Durable lightweight aluminum alloy construction
- DC 12V power (AC adapter power cord included)
- Optional 12V DC car battery cables and 220V AC adapter power cord available



DIMENSIONS AND WEIGHT

Height: 4.5" (114.3mm)
 Length: 8" (203mm)
 Width: 6" (152mm)
 Weight: 3.3lbs. (1.5kg)



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Laser Tach

Test your centrifuge for accuracy using the LW Scientific handheld digital tachometer. Be certain that you are spinning fluids at the correct CLIA recommended speeds. How do you know your variable speed centrifuge is spinning urines at 400 g's? Spinning too slowly may give inadequate results... spinning too fast may damage cell structures. This unit is easy to use with results in only one second. The tachometer will work on any centrifuge with a clear port in the lid allowing the strobe light to reflect off of the rotor.

SPEED RANGE

20-40,000rpm

ACCURACY

+/- 20 rpm

DETECTION TIME

1 second

DETECTIVE DISTANCE

50-400mm

DISPLAY

5 digits

WORKING TEMPERATURE

0-50 Degrees Celsius

POWER

3 AA batteries (included)



Digital Tachometer

Model #	Description
CNA-TACH-DHH7	Hand-held strobe tachometer

- Fast and Accurate
- Large, Easy to Read Display
- Compatible with Most Centrifuges

INCLUDES

Carry case

WEIGHT AND DIMS

Height: 7.0" (180mm)
Width: 3.0" (78mm)
Depth: 1.5" (38 mm)
Weight: 10.5 ounces (300 g)



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Water Bath

The LW Water Bath creates a constant temperature with an open reservoir and immersion circulator, ideal for heating temperature-sensitive samples. The stainless steel reservoir is seamless, eliminating the possibility of rust and leaks, and the rounded corners are easy to clean. The control unit achieves the desired temperature quickly and maintains a constant temperature to prevent sample overheating. Select desired setting with the touch-pad digital controller, and view the actual temperature on the red LED display. The compact design and stainless steel reservoir make this product a must for every lab.



TANK

Capacity 10 L or 20L
Stainless steel reservoir, corrosion resistant

TEMPERATURE SETTING

Digital

TEMPERATURE READOUT

LED

TEMPERATURE CONTROL

PID

TEMPERATURE SENSOR

100 ohm Platinum RTD

TEMPERATURE RANGE

Ambient + 5° to 100° C

STABILITY

+/- 0.2

POWER SUPPLY

110V (220V available)

WEIGHT

10L: 20 lbs. (9.07 kb)
20L: 21.2 lbs. (9.6 kg)

ACCESSORIES

Lid (flat or gabled), test tube racks

Water Bath

Model #	Description
WBL-10LC-SSD1	10 Liter
WBL-20LC-SSD1	20 Liter

- Excellent Temperature Control
- Convenient Large Bath Opening
- Stainless Steel Reservoir

INTERNAL TANK DIMS

10L
Height: 6" (150mm)
Width: 12" (300mm)
Depth: 10" (240mm)

20L
Height: 5.9" (150mm)
Width: 19.3" (490mm)
Depth: 11.4" (290mm)

DIMS

10L
Height: 8" (190mm)
Width: 13" (300mm)
Depth: 11" (275mm)

20L
Height: 7.5" (190mm)
Width: 21.2" (540mm)
Depth: 13.4" (340mm)



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Turbo Mixer

LW Scientific offers you two versions of the very popular Turbo Mixers. Ideal for the quick and complete mixing of samples, our cup and platform models will bring convenience and efficiency to your lab. They come with a variable speed control of up to 3000 RPM and can be activated to vibrate continuously or by pressure to the head. The high quality motor comes with a one year warranty and has been designed to offer quiet and vibration free vortex mixing action.

FEATURES

- Suction cup feet
- Metal construction
- Motor fan
- Compact and durable design
- Variable speed control
- Vibration-free
- High quality motor

SPECIFICATIONS

Speed: 3000 RPM
110V / 60Hz (220V available)

CONTROLS

On / off / touch switch
Power on light

WEIGHT AND DIMS

Height: 170mm (6.7")
Width: 160mm (6.3")
Depth: 130mm (5.2")
Weight: 3.2Kg (7lbs)

MXL-TMV7-7RC1:

Cup head dimensions: 50 x 50 x 25mm
(2 x 2 x 1 inches)

MXL-TMV7-7PL1:

Platform head: 100mm diameter x 25mm height
(4" x 1")



Turbo Mixer

Model #	Description
MXL-TMV7-7RC1	Turbo Mixer - Cup
MXL-TMV7-7PL1	Turbo Mixer - Platform

- Vibration-free
- Variable Speed
- Continuous Operation or Touch Control



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Incubator

The new incubators from LW Scientific are suitable for various applications such as cultures, egg incubation, and other microbiology and biology use in hospitals, industries, and laboratories. The PID Temperature Control provides automatic compensation after load changes, setting changes or door opening for excellent accuracy and it's natural convection heat distribution, combined with the adjustable air vents, provide excellent uniformity. Durable, easy to clean and corrosion resistant, our incubators offer you incomparable quality and efficiency for a very reasonable price!

***Quality certification: ISO 9001, CE**



CONSTRUCTION

- Attractive and durable exterior powder coating
- Corrosion resistant
- Stainless steel interior
- Adjustable shelves
- Double walls
- Full fiberglass insulation
- Silicon rubber sealing around doors
- Natural convection heat
- Adjustable air vents
- Double doors. Interior transparent door

TEMPERATURE

Ambient + 5°C ~ 70°C
Temperature stability is $\pm 0.3^{\circ}\text{C}$ at 37°C
 $\pm 0.4^{\circ}\text{C}$ at 70°C

CONTROLS

Simple key-pad input
Digital LED display

ALARM

Visual alarm alerts when actual internal temperature exceeds programmed temperature by 10 °C

Note: The difference between actual and programmed temperatures that triggers the alarm can be defined by the user

POWER

110V - 60Hz (220V - 50/60Hz available)

Incubator

Model #	Description
ICL-030L-0101	30 liter
ICL-050L-0171	50 liter
ICL-080L-0281	80 liter

- Temperatures to 70 °C
- Double Doors (Transparent Interior Door)
- Capacities: 30, 50 and 80 Liters


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Incubator

30 LITER

Temperature: Ambient + 5°C ~ 70°C

Capacity (liters): 30

(Cubic Feet - approx.): 1

Watts: 300

Power: 110V 60Hz (220V 50/60Hz available)

Accessories: 2 shelves (additional shelves available),
operation manual, warranty card

Dimensions (interior - mm): 300 x 300 x 300
(inches - approx.): 12 x 12 x 12

Dimensions (exterior - mm): 400 x 410 x 620
(inches - approx.): 16 x 16 x 25

Weight: 60 lbs (27.2 kg)

50 LITER

Temperature: Ambient + 5°C ~ 70°C

Capacity (liters): 50

(Cubic Feet - approx.): 1.7

Watts: 350

Power: 110V 60Hz (220V 50/60Hz available)

Accessories: 2 shelves (additional shelves available),
operation manual, warranty card

Dimensions (interior - mm): 360 x 360 x 390
(inches - approx.): 14 x 14 x 15

Dimensions (exterior - mm): 460 x 470 x 710
(inches - approx.): 18 x 18.5 x 28

Weight: 70 lbs (31.5 kg)

80 LITER

Temperature: Ambient + 5°C ~ 70°C

Capacity (liters): 80

(Cubic Feet - approx.): 2.8

Watts: 400

Power: 110V 60Hz (220V 50/60Hz available)

Accessories: 2 shelves (additional shelves available),
operation manual, warranty card

Dimensions (interior - mm): 424 x 451 x 450
(inches - approx.): 17 x 18 x 18

Dimensions (exterior - mm): 524 x 560 x 722
(inches - approx.): 21 x 22 x 28.5

Weight: 100 lbs (45.5 kg)

150 LITER

Temperature: Ambient + 5°C ~ 70°C

Capacity (liters): 150

(Cubic Feet - approx.): 5.3

Watts: 700

Power: 110V 60Hz (220V 50/60Hz available)

Accessories: 2 shelves (additional shelves available),
operation manual, warranty card

Dimensions (interior - mm): 600 x 500 x 500
(inches - approx.): 24 x 20 x 20

Dimensions (exterior - mm): 600 x 530 x 1000
(inches - approx.): 24 x 29 x 40

Weight: 110 lbs (50 kg)

300 LITER

Temperature: Ambient + 5°C ~ 70°C

Capacity (liters): 300

(Cubic Feet - approx.): 10.6

Watts: 900

Power: 110V 60Hz (220V 50/60Hz available)

Accessories: 2 shelves (additional shelves available),
operation manual, warranty card

Dimensions (interior - mm): 730 x 730 x 1330
(inches - approx.): 24 x 29 x 40

Dimensions (exterior - mm): 730 x 730 x 1330
(inches - approx.): 29 x 29 x 52.4

Weight: 143 lbs (65 kg)



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Digital Rotator

The Serology Rotator is designed to give years of dependable service, even in the busiest laboratory. It's the ideal space-saving instrument for procedures that require constant or timed rotation (mixing) such as RPR, VDRL, latex tests and for procedures that require a nonstandard speed.

FEATURES

- Widely used in VDRL, RPR, and EIA tests
- Stable and quiet operation
- Clear humidity tray
- Variable speed, timer control, and continuous operation

SPECIFICATIONS

- Speed: 20-240rpm
- Timer: 99 hours and 99 minute digital timer
- Power supply: AC 110V 60Hz
(220V 50/60Hz available)
- Load capacity: 4.4lbs at 20-150rpm
2.2lbs at 151-240rpm

WEIGHT AND DIMS

- Platform: 9 x 9in (230 x 230mm)
- Orbit diameter: 0.8in
- Weight: 8.6 lbs (3.9kgs)
- Width: 10in
- Depth: 12in
- Height: 5.5in



Digital Rotator

Model #	Description
RTL-BLVD-24T1	110v Digital Rotator
RTL-BLVD-24T2	220v Digital Rotator



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Lab Equipment

DIFFERENTIAL COUNTERS

LW Scientific offers a five-key and an eight-key model of blood cell differential counters. These manual counters are durable and will provide years of use; even in the most demanding laboratory settings.

- Right and left reset knobs
- Bell alarm for 100th counted cell
- Non-slip bottom
- Strip chart of mature and immature forms
- Acid-resistant, high-impact plastic body

REFRACTOMETER

Achieve accurate, quantitative measurements of specific gravity and protein determinations in bodily fluids with our hand-held refractometer. Simply read the numerical scales through the eyepiece. Rubber grip and optical focus system allow for easy viewing in any environment. Automatic temperature compensation allows for immediate results, even when sample temperatures vary.

Total protein/specific gravity:

- Range: 0-12g/dl; 1,000-1,040sg
- Resolution: 0.2g/dl; 0.002sg
- Dimensions: 1.18"x6.29" (30mmx160mm)
- Weight: 0.47 lbs. (215g)
- Includes: Carry case, screw driver, sample dropper and cloth cover

HEMACYTOMETER

Our Hemacytometer is specially designed for counting erythrocytes and leukocytes. Double rulings are visible through a wide range of illumination. Neubauer rulings are 0.1mm below cover glass. The H-shaped moat offers two counting areas. Fused rhodium on glass provides distinct lines.

- High light transmission
- Brightly illuminated line
- Two special counting chamber cover glasses
- Light transmission between 29% and 32%



Lab Equipment

Model #	Description
CTL-DIFM-05KY	5-Key Differential Counter
CTL-DIFM-08KY	8-Key Differential Counter
CTL-REFM-PRSG	Refractometer
CTL-HEMM-GLDR	Hemacytometer



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Pipette Shakers

LW Scientific pipette shakers easily achieve consistent results in specimen separation and are especially effective for blood preparation. The LWS 6 place shaker has the option of either continuous motion or timed motion using the 15 minute timer. Compact size and durability make the LW Scientific pipette shaker convenient for any laboratory.

SPECIFICATIONS

- Portable and compact
- Capacity – 6 places
- Holds 5ml - 7ml pipettes
- Fixed speed - 2500 rpm
- 15-minute timer
- Suction-cupped feet
- Space-saving design
- LED indicator light
- Durable construction
- 110v or 220v
- One year warranty



Model #	Description
SHL-PPF7-06F1	Pipette shaker 6 places



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Blood Rocker

ROCKER

The LW Blood Rocker gently rocks blood sample tubes and small vials. The gentle motion assures mixing without damage to fragile cell suspensions.

FEATURES

- 16-tube capacity
- Space-saving design
- Washable tube pad
- 24 rocking cycles per minute



Lab Equipment

Model #	Description
MXL-BLF7-16T1	Blood Rocker

SPECIFICATIONS

- Speed: 24 cycles per minute
- Motor: 120V AC 3W
- Height: 4" (10.2cm)
- Length: 13.5" (34.3cm)
- Width: 5.25" (13.3cm)
- Weight: 4.8lbs (2.2kg)



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Platelet Rotator

FEATURES

Widely used in blood banks
Durable construction
Whisper-quiet, heavy-duty motor
Holds up to 36 platelet bags
Variable speed control from 0 to 9 rpms
Stainless steel basket rotates 360° smoothly
Easy loading and unloading
Built-in tachometer allows users to monitor speed easily

SPEED

0-9 rpm

POWER SUPPLY

110v 60 Hz (220V 50/60Hz available)

WEIGHT AND DIMS

1 Basket

Length: 370mm
Width: 255mm
Height: 290mm
Net Weight: 7.4kg
Gross Weight: 8.9kg

2 Basket

Length: 510mm
Width: 255mm
Height: 290mm
Net Weight: 9.1kg
Gross Weight: 10.1kg

3 Basket

Length: 650mm
Width: 255mm
Height: 290mm
Net Weight: 10.3kg
Gross Weight: 11.3kg

4 Basket

Length: 790mm
Width: 255mm
Height: 290mm
Net Weight: 11.5kg
Gross Weight: 12.5kg



Platelet Rotator

Model #	Description
RTL-PLV1-12B1	Platelet rotator, 1 basket, capacity 12 bags, 110V
RTL-PLV2-24B1	Platelet rotator, 2 baskets, capacity 24 bags, 110V
RTL-PLV3-36B1	Platelet rotator, 3 baskets, capacity 36 bags, 110V
RTL-PLV4-48B1	Platelet rotator, 4 baskets, capacity 48 bags, 110V



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Loupes

3.5X PREMIUM

SHORT: Close-up, bench work

LPM-P35F-4007 (3.5x)

- Working distance 365 +/- 15mm
- Depth of field 30mm
- Field of view 44mm

LONG: Stand-up surgeries

LPM-P35F-4607 (3.5x)

- Working distance 460 +/- 20mm
- Depth of field 40mm
- Field of view 45mm

2.5X PREMIUM

SHORT: Close-up, bench work

LPM-P25F-3007 (2.5x)

- Working distance 340 +/- 25mm
- Depth of field 50mm
- Field of view 66mm

LONG: Stand-up surgeries

LPM-P25F-4607 (2.5x)

- Working distance 460 +/- 30mm
- Depth of field 80mm
- Field of view 90mm

VARIABLE

LPM-P35V-4407

Zoom magnification 2.5x to 3.5x

Variable working distance 440mm-250mm

Variable depth of field 130mm-50mm

Variable field of view 100mm-40mm

CLIP-ON

LPM-C25F-3807 (2.5x)

- Working distance 380 +/- 30mm
- Depth of field 60mm
- Field of view 80mm

LPM-C35F-3807 (3.5x)

- Working distance 380 +/- 20mm
- Depth of field 40mm
- Field of view 50mm

Works on most prescription glasses




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LED Headlights

The LED light source mounted in front of the loupes provides unobstructed, shadow-free illumination important for precision procedures. The LED lamp comes standard with a battery pack, and an optional A/C power cord is available for continuous bench use. LED light can be used with LW Scientific loupes, any other loupes, existing glasses, or just by itself.

HEADGEAR

- Padded with real leather for extended comfort
- Adjustable headband
- Includes 3 AA batteries
- Overhead strap
- Convenient knobs adjust for your head size



Model #	Description
ILL-LED7-HLHG	LED headlight on headgear, 3-AA battery pack (included)
ILL-LED7-HLCL	LED headlight - clip-on, 3-AA battery pack (included)
ILP-ADPW-HL71	AC power cord for LED headlight

CLIP-ON LED

- Movable light puts light where you need it
- LED Light for 100,000 working hours
- Extra-bright, daylight white LED



AC POWER ADAPTER

110 V transformer



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URS Strips

LW Scientific Urine Reagent Strips (URS) are economical, easy to use and clinically tested for accuracy. Clearly read results using the color chart on the vial or automated strip readers for quantitative results. These strips are available in many combinations, ranging from specific single tests to nine or ten parameter tests. Each unopened vial of 100 individual test strips has a long shelf life. See the chart below to select the test combinations to suit your needs.

Low-carb dieters use our URS-K strips to monitor ketone output in urine, which can be an indicator of diet success.



URS Strips

Indicator For:	URS-G	URS-K	URS-B	URS-2	URS-5	URS-10
pH					X	X
Glucose	X			X	X	X
Protein				X	X	X
Keytone		X			X	X
Bilirubin						X
Blood			X		X	X
Nitrite						X
Urobilinogen						X
Specific Gravity						X
Leukocytes						X



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