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Laboratory/Medical/Veterinary  
Equipment and Accessories



Microscopes



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Cameras



Tube Management



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UNICO was founded in 1991 and has grown steadily thanks to our uncompromising commitment to quality products & service. Our technical and support staff are ready to help you select the best products for your applications. We carry a large inventory and service everything we sell in addition to offering repair and maintenance by factory technicians.

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Será un placer servirlo.

# UNICO PowerSpin™ Centrifuge Selection Guide



C806



C8312



C8724



CMH30



C881

## This guide should help you choose the right UNICO centrifuge for your specific needs. Speed (RPM) vs. g-Force (RCF):

The most important factor when choosing a centrifuge is the G-Force, or RCF, not the speed. The RCF determines the ability of a centrifuge to separate the specimen. Most specimens must be spun within a specific RCF range in order to properly prep the sample for testing and analysis. The guide below will help you select a model based on RCF, RPM, # of tubes, specimens and other attributes.

### CLIA, Calibration and speed checking:

Your lab or practice may be subject to CLIA regulations if what you do is considered to be "moderately complex", or "highly complex". CLIA, (Clinical Laboratory Improvement Amendment of 1988); may dictate that your centrifuges need to be "Calibrated" every 6 months. CLIA inspectors may visit your facility to make sure you are maintaining your equipment and following protocols; and that your equipment is capable of performing the protocols properly, etc.

Calibration involves using a tachometer to check the speed of your centrifuge for accuracy. CLIA inspectors will "pass" a centrifuge that operates within plus or minus 100 RPM of the actual setting. For example, your centrifuge is set to spin at 3,400 RPM; CLIA will pass it if it is anywhere between 3,300 and 3,500 RPM; as long as your protocol calls for spinning in that range as well. To check your centrifuge you can purchase a UNICO tachometer, item # C800-75.

## Urine Sample Centrifugation:

A note of caution if you spin Urine specimens: If you have a fixed speed centrifuge, chances are very good it is set the RCF and speed for spinning blood samples only. Urine specimens must be spun at a greatly reduced RCF in order to properly prep the sample. If your facility is subject to CLIA and you spin urine samples in a blood centrifuge, the CLIA inspector may not allow the centrifuge to pass inspection. You will be asked to either stop spinning urine samples, or acquire a centrifuge capable of spinning at the correct RCF for separating urine samples. If you would like to speak with an application specialist to help you select the right centrifuge for your applications, please contact us at: 800-588-9776, or 732-274-1155, or info@unicosci.com; ask for tech support for centrifuges.

## Digital Photo-Tachometer

- RPMs instantly display on large LCD screen
- Standard adhesive reflective tape included
- Highly accurate scientific tool, includes case



Item No.	Description
C800-75	Photo-Tachometer

Model	SKU	Number of Tubes	Tube Capacity	Specimens	Blood	Fecal	Urine	Microhematocrit	DNA Protein	Speed	Rotor	Maximum RPM	Maximum RCF (g)
FX	<b>C806</b>	6	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Fixed	Fixed	3400	1,320
FX	<b>C808</b>	8	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Fixed	Fixed	3400	1,320
LX	<b>C856</b>	6	2-15 ml	Yes	Yes	Yes	With Adapters	No	Variable	Fixed	Fixed	500-4,000	Up to 1,828
LX	<b>C858</b>	8	2-15 ml	Yes	Yes	Yes	With Adapters	No	Variable	Fixed	Fixed	500-4,000	Up to 1,828
PX	<b>C826</b>	6	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Fixed	Fixed	3400	1,320
PX	<b>C828</b>	8	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Fixed	Fixed	3400	1,320
HX	<b>C8302</b>	6	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Horizontal	Horizontal	3500	1,777
HX	<b>C8304</b>	12	2-15 ml	Yes	No	No	With Adapters	No	Fixed	Horizontal	Horizontal	500-3,500	1,777
HXV	<b>C8306</b>	6	2-15 ml	Yes	No	No	With Adapters	No	Variable	Horizontal	Horizontal	500-3,500	1,777
HXV	<b>C8312</b>	12	2-15 ml	Yes	No	No	With Adapters	No	Variable	Fixed	Fixed	500-3,500	1,777
DX	<b>C8704</b>	4	2-50 ml	Yes	Yes	Yes	With Adapters	No	Variable	Horizontal	Horizontal	500-4,000	2,508
DX	<b>C8706</b>	6	2-15 ml	Yes	Yes	Yes	With Adapters	No	Variable	Horizontal	Horizontal	500-4,000	2,508
DX	<b>C8724</b>	24	2-15 ml	Yes	Yes	Yes	With Adapters	No	Variable	Fixed	Fixed	500-4,000	2,508
CMH	<b>CMH30</b>	24	Capillary	MH	No	No	Yes	No	Fixed	Fixed	Fixed	12,000	14,837
BX	<b>C881</b>	8	8-10 ml	Yes	No	No	With Adapters	No	Variable	Fixed	Fixed	5,000	2,571
BX	<b>C882</b>	24	Capillary	MH	No	No	Yes	No	Variable	Horizontal	Horizontal	11,000	11,634
BX	<b>C883</b>	24	0.5-3 ml	Yes	No	No	No	No	Variable	Fixed	Fixed	11,000	11,093

**How to calculate RCF:** RCF = Relative Centrifugal Force (also known as "G-Force")

**Centrifuge RCF Calculation:** RCF = 1.12 x R(mm) x Krpm x Krpm where R: Centrifuge rotor radius (mm) and Krpm: Centrifuge speed in thousands

**Example:** If rotor radius is 102mm, speed is 3.4Krpm (3400rpm), then RCF = 1.12 x 102 x 3.4 x 3.4 = 1320g

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United Products & Instruments, Inc.  
800-588-9776 www.unicosci.com



LX Color Coded Quick Speed setting reference:

Brown Fecal  
Yellow Urine  
Red Blood



### LX Centrifuge: C856

Actual Size: 10.2" x 11.8" x 8"

Shipping Dimension: 13.4" x 14.8" x 10.6"

Net Weight: 15 lbs

Shipping Weight: 18 lbs



### FX Centrifuge: C806

## PowerSpin™ Centrifuges, Models FX and LX

UNICO® PowerSpin™ Series centrifuges are compact, economical and quiet. We offer both fixed (FX) and variable (LX) speed models with fixed angle rotors, for 6 or 8 tubes to spin 7.5 – 15 ml tubes. By using adapters, you can also spin tubes ranging from 2 – 7 ml. An optional Tube Holdster™ allows you to have up to 18 tubes or adapters at your fingertips, side-mounted on the centrifuge. PowerSpins are pre-drilled/tapped to accept optional Tube Holdsters.

### Specifications:

- Standard 6 or 8 place rotor for 2 to 15 ml tubes
- Adapters for 2 ml or 4-7 ml tubes (part # C800-04 & C800-03)
- 0-30 minute timer with bell tone signal
- Quiet at full speed, only 58 decibels
- Latching lid with safety switch triggered to shut-off power to the motor when the lid is opened
- Stainless Steel rotor chamber is easily accessible for cleaning and disinfection
- Maintenance-free brushless motors
- Suction cup rubber feet for stability while reducing vibration
- Lid window for strobe tachometer RPM check
- One Year Limited Warranty

Item No.	Description
C806	FX, 6 Place Fixed Speed Centrifuge, 3400 rpm
C806H	FX, C806 with Tube Holdster
C808	FX, 8 Place Fixed Speed Centrifuge, 3400 rpm
C808H	FX, C808 with Tube Holdster
C856	LX, 6 Place Variable Speed Centrifuge, 300 - 4000 rpm
C856E	LX, 6 Place, same as above, 220V
C856H	LX, C856 with Tube Holdster
C856H-E	LX, C856E with Tube Holdster, 220V
C858	LX, 8 Place Variable Speed Centrifuge, 300 - 4000 rpm
C858E	LX, 8 Place, same as above, 220V
C858H	LX, C858 with Tube Holdster
C858H-E	LX, C858E with Tube Holdster, 220V
C800-01	8 Place Rotor for PowerSpin Centrifuges
C800-02	Tube Shield, Pkg. of 2
C800-03	Short Tube Adapters, for 4-7 ml tubes, Pk/10
C800-04	Small Tube adapters, for 2 ml tubes, Pk/2
C800-05	Greiner Tube Lift Adapters, Pk/12
C800-18	Tube Holdster, 18 Place

PowerSpin™ Model	FX C806 / C808		LX C856 / C858		HX C8302		PX C826 / C828	
	RPM	RCF	RPM	RCF	RPM	RCF	RPM	RCF
Rotor radius	102 mm		102 mm		130 mm		102 mm	
Fecal Speed	N/A		1400	224	N/A		N/A	
Fecal Time	N/A		10 minutes		N/A		N/A	
Urine Speed	N/A		2000	456	N/A		N/A	
Urine Time	N/A		5 minutes		N/A		N/A	
Blood Speed	3400	1320	3100/4000	1097/1828	3400	1680	3500	1640
Blood Time	10-15 minutes		10 minutes		10 minutes		10 minutes	

RPM = Revolutions Per Minute

RCF = Relative Centrifugal Force (also known as "G-Force")

## PowerSpin™ PortaSpin™ Centrifuge, PX Mobile

The PortaSpin PX allows you to take your practice on the road. Whether you are a mobile vet, visiting nurse or doctor, we have a PortaSpin that will meet your needs. Available with 6 or 8 place rotors and adapters to fit tubes ranging from 2 – 15 ml. Standard with a 12 Volt car lighter adapter, a 110V electrical outlet adapter is optional for use back at the lab.

When using this unit you will most likely not be in your lab setting so you will not have your standard bench-top tube rack. We strongly recommend purchasing the optional Tube Holdster, attached easily to the side of the centrifuge and will hold up to 18 tubes or adapters.

Actual Size: 10.2" x 11.8" x 8" Shipping  
Dimension: 13.4" x 14.8" x 10.6" Net  
Weight: 15 lbs Shipping Weight: 18 lbs



PortaSpin features a level built into the lid to make sure you are level before and during your run. A sturdy stainless steel handle makes carrying the centrifuge easy.



C826

### Specifications:

- Designed for the professionals on the go
- Plugs into a car 12V power outlet
- 3500 RPM fixed speed for blood
- 30 minute timer
- Convenient stainless steel carrying handle
- Lid mounted "fish-eye" level to level before spinning
- Optional AC power adapter available
- One Year Limited Warranty

Item No.	Description
C826	PX, PortaSpin 6 Place Mobile Centrifuge
C826H	PX, PortaSpin 6 Place Mobile Centrifuge with Tube Holdster
C828	PX, PortaSpin 8 Place Mobile Centrifuge
C828H	PX, PortaSpin 8 Place Mobile Centrifuge with Tube Holdster
C826-06	PX, PortaSpin 12V DC Car Adapter
C826-12	PX, PortaSpin 110V AC Adapter
C826-12E	PX, PortaSpin 220V AC Adapter
C800-03	Short Tube Adapters, for 4-7 ml tubes, Pk/10
C800-04	Small Tube adapters, for 2 ml tubes, Pk/2
C800-05	Greiner Tube Lift Adapters, Pk/12
C800-10	Fuse for PowerSpin Centrifuges
C800-18	Tube Holdster, 18 Place

## PowerSpin™ Centrifuge, HX Series

The horizontal spin fixed speed PowerSpin™ HX centrifuge spins at 3400 RPM. The horizontal rotor ensures a clean, complete separation of cellular components. Using a horizontal rotor for spinning Serum Separator Tubes (SSTs) creates a tight uniform horizontal seal, reducing the risk of red cell leakage.

The HX series features a Zero RPM safety lock, so the lid can not be opened while the rotor is in motion. A digital timer and LCD display provide users with the precise control of the spin cycle. Powerful brushless motor is maintenance free for years of dependable use. Stainless steel guard bowls are easy to clean and maintain.

Item No.	Description
C8302	HX, 6 Place Horizontal Spin Centrifuge
C8304	HXV, 12 Place Fixed Speed Centrifuge
C8306	HXV, 6 Place Variable Speed Horizontal Centrifuge
C8308	HXV, 8 Place Variable Sped Horizontal Centrifuge
C8312	HXV, 12 Place Variable Speed Centrifuge
C8302-02	6 Place Swing Out Rotor
C8300-03	12 Place Angled Rotor
C8300-10	Fuse for HX Series Centrifuge
C822-02	Tube Shield, Pkg. of 2
C800-03	Short Tube Adapters, for 4-7 ml tubes, Pk/10
C800-04	Small Tube adapters, for 2 ml tubes, Pk/2
C800-34	Microhematocrit Adapters, 4 tubes each, Pk/2

Actual Size: 14.4" x 11.6" x 8.9"  
Shipping Dim.: 16.5" x 13" x 10"  
Net Weight: 22 lbs  
Shipping Weight: 25 lbs



C8312



C8706

## C8706: Horizontal Spin, 6 Place

The Six (6) place C8706 is a swinging bucket centrifuge for 2-15ml tubes, or Microhematocrit with adapters. Horizontal spin provides a flat gel separation and increased RCF. Tube holders are vertical at rest, perfect for Fecal protocols. Spin Microhematocrit tubes with C800-34 adapters.

### Item No. Description

C8706	DX, 6 Place Horizontal Spin Centrifuge
C8706H	DX, 6 Place Horizontal Spin Centrifuge with Tube Holdster
C8706E	DX, 6 Place Horizontal Spin Centrifuge, 220V
C8706H-E	DX, 6 Place Horizontal Spin Centrifuge, 220V, with Holdster
C800-34	Adapters for four Microhematocrit tubes, Pk/2

## C8724: Fixed Angle, 24 Place



C8724

A high-capacity unit, 24 places featuring an all-metal rotor designed for 2-15ml tubes. This model becomes a Microhematocrit centrifuge with C800-34 Microhematocrit tube adapters.

### Item No. Description

C8724	DX, 24 Place Variable Speed Centrifuge
C8724H	DX, 24 Place Variable Speed Centrifuge with Tube Holdster
C8724E	DX, 24 Place Variable Speed Centrifuge, 220V
C8724H-E	DX, 24 Place Variable Speed Centrifuge, 220V with Tube Holdster

## Features common to

The PowerSpin DX series (C8704, C8706, C8724) features a large, spacious stainless steel lined interior, all digital push-button control, variable speed 1,000-3,400 RPM and zero RPM lid latching system. DX's are available in four main versions, fixed angle and horizontal spin rotors. All DX's feature maintenance-free brushless motors and suction cup rubber feet.

- Variable speed: 1,000-3,400 RPM; 100 RPM increments
- Stainless Steel Guard bowl and lid liner
- Zero RPM lid latch control system (safety plus)
- Real time digital display: RPM, RCF & Run time count down
- Remembers last setting(s) for easy-repeat runs

## DX Rotor Options

Optional DX Centrifuge Rotors and accessories. Rotors are interchangeable on all UNICO DX Model Centrifuges

### Item No. Description

C8700-04	4 Place 50 ml Horizontal Rotor
C8700-06	6 Place, 2-15 ml Horizontal Rotor
C8700-03	24 Place, 2-15 ml Fixed Angle Rotor, Metal



C8700-04: 4 Place 50 ml Horizontal Rotor



C8700-06: 6 Place, 2-15 ml Horizontal Rotor



C8700-03: 24 Place, 2-15 ml Fixed Angle Rotor, Metal

## DX Series Centrifuges

- 60-minute digital timer with tone signaling end
- Suction cup rubber feet secure to bench top
- Lid window for quick and easy tachometer calibration
- Four rotor options for incredible versatility
- Drilled and tapped to accept 24-Place Tube Holdster
- Available in 110V and 220V versions
- One Year Limited Warranty
- Dimensions:

Actual Size: 13.75" x 15" x 11"

Shipping Dimension: 18" x 19" x 15.5"

Net Weight: 31 lbs

Shipping Weight: 36 lbs

## C8704: 4 place, up to 50 ml Centrifuge

This remarkable centrifuge is incredibly versatile, capable of handling tubes ranging from 0.5 to 50 ml. It could very well be the only centrifuge your practice requires. Standard horizontal swinging buckets accommodate 50 ml tubes, and a diverse selection of tube adapters is available to meet your needs.

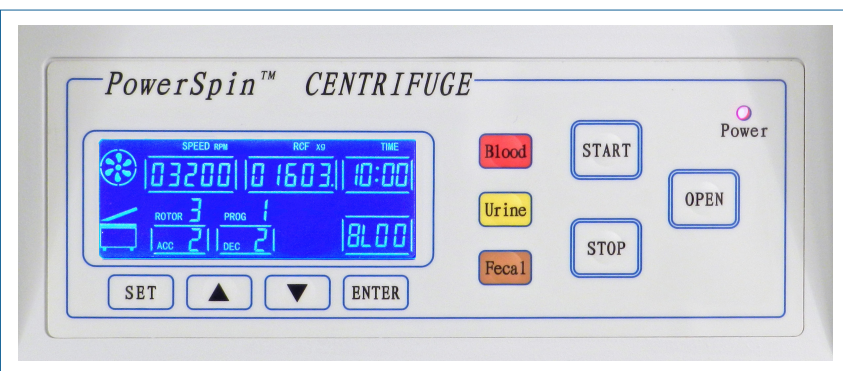
The 4 place, swinging bucket rotor provides a flat, horizontal separation of the specimen, or SST gel. Capable of holding tubes ranging in size from 0.5- 15 ml and Microhematocrit (Capillary tubes). The tube holders are vertical at rest, allowing the use of cover slips with Fecal Protocols.

### Item No. Description

C8704	DX, The One, Four-place 50ml rotor, swinging bucket
C8704-10	DX, C8704 with complete set of Tube Adapters (C8604-2, C8604-3, and C8604-4 ) to spin any size tube
C8600-18	Tube Holdster, 24 Place
C800-10	Fuse for PowerSpin Centrifuges
C8000-05	50 to 15ml Adapter
C800-34	Adapters for four Microhematocrit tubes, Pk/2
C800-02	Tube Shield, Pkg. of 2



C8704



The PowerSpin C8700 Series Centrifuge Control Panel

Users can set their own parameters using "Set" and "Enter" buttons, changing every parameter by pushing "Up" or "Down" buttons. The parameters will be selected in the sequence as showed on the display: Speed; RCF; Time; ACC (acceleration); DEC (deceleration); Rotor and Program (1-9).

### C8700 offers 3 preset programs

Blood - preset to 3200RPM/1603RCF for 10 min  
 Urine - preset to 1800RPM/505RCF for 5 min  
 Fecal - preset to 1300RPM/257RCF for 10 min



C800-34:  
Adapters for four  
Microhematocrit  
tubes, Pk/2

## PowerSpin™ Centrifuge, BX

The BX is a versatile, state of the art variable-speed centrifuge series with three rotor options.

Options are:

- Blood/Urine Tube, 2-12 ml Rotor: Max Speed = 5,000 RPM
- Microhematocrit/Capillary Tube Rotor: Max Speed = 11,000 RPM
- Microcentrifuge Tube, 0.5-3 ml Rotor: Max Speed = 11,000 RPM

Your BX can be a dedicated centrifuge with any one of the rotors, or a versatile addition to your lab with up to three interchangeable rotors with speeds from 1,000 – 11,000 RPM.

BX Centrifuges have advanced safety features such as a Zero RPM lid latch control system (which makes sure the lid can not be opened if the rotor is spinning), a stainless steel rotor chamber, Auto-unbalance detection and shut-down (will shut-down the motor if an 0%-balance condition is detected). With three interchangeable rotors, the centrifuge features ARD (Automatic Rotor Detection), the unit can automatically tell which of the three rotors are loaded. This is an important safety feature as each of the three rotors has a different maximum speed.

The Microhematocrit rotor features a Tube Reader built-into the rotor lid. This makes reading crit values quick and easy after your run, without having to remove the tubes and place them in a reader, or on a reader-card, etc. The standard Blood & Urine tube rotor fits 7.5 – 12 ml tubes and will not accept 15 ml tubes. With adapters shown below, you can spin 0.5 – 3 ml tubes (C800-04), or 3.5 – 6.5 ml tubes (C800-03).

### Specifications:

- Variable speed up to 11,000 RPM (up to 5000 RPM on C881)
- Zero RPM Safety Lock and Rotor Unbalance Sensor
- Automatic Rotor recognition
- Digital Timer 0-99 minutes
- Maintenance free brushless motor
- Exterior is chemical resistant and easy to clean and disinfect
- Lid window for strobe tachometer RPM check
- Standard 115V/60Hz; (220V/50Hz option available)
- One Year Limited Warranty



C881

### Item No. Description

C881	BX, 8 Place Fixed Angle Metal Rotor Centrifuge
C881E	BX, 8 Place, Fixed Angle Metal Rotor Centrifuge, 220V
C882	BX, 24 Place Hematocrit Centrifuge
C882E	BX, 24 Place Hematocrit, same as above, 220V
C883	BX, 24 Place Micro-Tube Centrifuge
C883E	BX, 24 Place Micro-Tube, same as above, 220V
C884	BX, 8 Place Tube rotor & 24 Place Microhematocrit
C884E	BX, 8 Place Tube rotor & 24 Place Microhematocrit, 220V
C885	BX, All three available rotors, 110V
C885E	BX, All three available rotors, 220V
C886	BX, 24 Place Microhematocrit & 24 Place Microcentrifuge
C886E	BX, 24 Place Microhematocrit & 24 Place Microcentrifuge, 220V
C887	BX, 8 Place Tube rotor & 24 Place Microcentrifuge
C887E	BX, 8 Place Tube rotor & 24 Place Microcentrifuge, 220V
C881-03	Short Tube Adapters, for 4-7 ml tubes, Pk/10
C881-04	Small Tube adapters, for 2 ml tubes, Pk/2
C800-34	Adapters for four Microhematocrit tubes, Pk/2
C800-512	12 ml Conical Urine Tube, 16 x 100 mm, Pk/12
C800-550	12 ml Conical Urine Tube, 16 x 100 mm, Pk/50
C800-500	12 ml Conical Urine Tube, 16 x 100 mm, Pk/500



C883

PowerSpin™ Model	BX C881	BX C882	BX C883
Rotor radius	92 mm	86 mm	82 mm
	RPM   RCF	RPM   RCF	RPM   RCF
Fecal Speed	1600   263	N/A	N/A
Fecal Time	10 minutes		
Urine Speed	2000   411	N/A	2300   485
Urine Time	5 minutes		5 minutes
Blood Speed	5000   2570	11,000   16,250	11,000   15,495
Blood Time	4 minutes	5 minutes	5 minutes

RPM = Revolutions Per Minute

RCF = Relative Centrifugal Force (also known as "G-Force")



Digital LCD display and push button control panel are designed to give the user complete control throughout the spin cycle.



## PowerSpin™ Centrifuge, BX

**BX Versatility: New Microhematocrit Tube Adapters:** We have developed several microhematocrit tube adapters that can be used with the Blood & Urine Tube Rotor, making a single rotor much more versatile and eliminating the need to purchase an additional rotor, or change rotors. Both New C800-34 and C8600-34 Adapters come in a Pkg/2 adapters, each and each adapter holds up to 4 MH tubes. The Blood & Urine rotor runs at a max of 5,000 RPM, much slower than traditional microhematocrit rotors with a 5 min. run. With our adapters, at 5,000 RPM, you can achieve a complete microhematocrit separation in an 8 min. run.

The BX's large digital display continuously shows three parameters in real-time: Speed (RPM), g-Force (RCF) and Time – how much time is left in the run. A unique feature allows the user to select which of these three parameters to display in an extra large font, for quick and easy viewing.

BX's feature maintenance-free brushless motors and a lid window for tachometer calibration checks. An intuitive button panel is quick and easy to use.



C882

## BX Rotors

Select from three rotor options for your BX centrifuge. For your convenience, we designed the C880-10 BX Rotor Rack to store all three rotors, the rotor changing tool and all your accessories. This rack can sit bench-top next to the BX, or can be wall-mounted, whichever works best for your lab. Also includes an 18-place Tube Holdster™ for any size tube from 2-15ml.

Item No.	Description
C880-01M	Metal, 8-Place Blood/Urine Tube Rotor
C880-02	24-Place Microhematocrit Rotor
C880-03	24-Place Microcentrifuge Rotor



24 place rotor for 0.5 to 3ml Micro tubes



24 place rotor for capillary Microhematocrit tubes. Hematology Reader incorporated into the cover



8 place Blood/Urine Tube Rotor (accepts maximum 12 ml urine tubes)

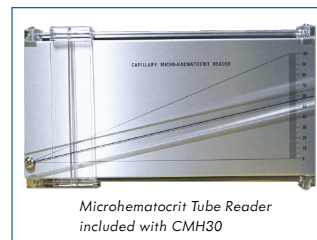
## CMH30 Microhematocrit Centrifuge

Model CMH30 is made of formed metal and has a baked paint application that is acid and reagent resistant. A safety switch built into the handle assembly disconnects the power to the motor whenever the latch is lifted. The brushed motor is mounted on rubber mounts to provide quiet running and dampen vibration.

### Specifications:

- Twenty-four (24) place rotor with replaceable rubber ring and screw down metal lid
- Includes Microhematocrit Tube Reader
- Nominal speed is 12,000 RPM
- Dependable mechanical 5-minute timer with bell signal at end of run
- All metal housing for years of dependable use
- Safety switch in latch shuts off motor when lid is lifted
- Electric motor braking
- Indicator light tells when unit is in use
- Standard 115V/60Hz AC
- One Year Limited Warranty

Item No.	Description
CMH30	Microhematocrit Centrifuge, 24 Place, 110V
CMH30E	Microhematocrit Centrifuge, 24 Place, 220V
CMH30-Reader	Microhematocrit Tube Reader



Microhematocrit Tube Reader included with CMH30



CMH30 Centrifuge

Actual Size: 11.6" x 10.3" x 9.3"  
 Shipping Dim.: 12.7" x 12.7" x 12.2"  
 Net Weight: 17.4 lbs Shipping  
 Weight: 19.4 lbs

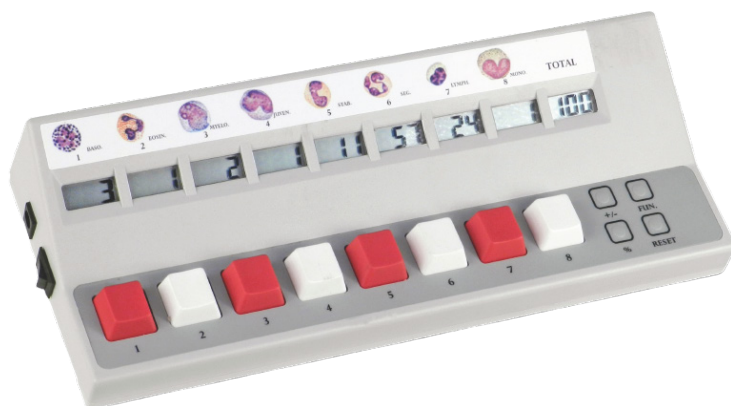
## Differential Counters



UNICO offers the 3 most popular counters: 2 key, 5 key with total window, and 8 key with total window. The 5 and 8 key models are sold with a WBC maturation series picto-strip just above the key windows. All metal housing is durable, chemical resistant, and easy to clean and disinfect. Signal bell when 100 cells have been counted.

Item No.	Description
L-BC3	2 Key Differential Counter
L-BC6	5 Key Differential Counter, with Total Window
L-BC9	8 Key Differential Counter, with Total Window

## Digital Differential Counter



The UNICO Digital Differential Counter is designed for efficiency and precision in the clinical laboratory, combining time-tested reliability with modern digital functionality. This intuitive device streamlines the process of white blood cell (WBC) differential counts, allowing for accurate and efficient results with minimal effort.

Item No.	Description
L-BC9D	8 Key Differential Counter, with Digital Total
L-BC9-10	Window 8 Key, 110V AC Adapter



48700



48710

48710 includes tube bins.

## Flexi-Phleb™ Phlebotomy Tray

The Flexi-Phleb has large carrying capacity without bulk. The tray provides a handy pull out drawer that is great for storing needles, bandages and other items. The top level accepts removable Tube-CUBE's (see page 13) that secure a variety of tubes, ice cups for temperature sensitive samples, or sharps containers. Back at the lab, merely exchange your collected samples in Tube-CUBE's at Specimen Processing with empty ones and you are ready to go again! Tray is constructed of tough, durable LDPE for long service and easy cleanup.

Flexi-Phleb includes two 9 place, one 4 place, and one 1 place Tube-CUBE's, and 2 Squeezeie hand exercisers (sharps and alcohol dispenser not included).

Item No.	Description	UOM	Size
48700	Phlebotomy Tray	EA	9"W x 6"D x 14"H
48710	Phlebotomy Tray, with 5 bins for accessories	EA	9"W x 6"D x 14"H

## Squeezeies™

Introducing UNICO Heart-shaped Hand Squeezeie's! These hand-exercisers are useful in phlebotomy, patients squeeze them to assist in the blood drawing process. Available as eaches and in Packs of 10 or 20.



Item No.	Description
28080-1	Squeezeie, Each
28080-10	Squeezeie, Pack of 10
28080-20	Squeezeie, Pack of 20

## Rock-IT™ Tube Rockers

Introducing the upgraded UNICO Rock-IT Tube Rockers—now with an innovative PAUSE button feature. This enhancement allows users to easily pause the rocking motion, making the addition or removal of tubes effortless and efficient. This thoughtful design not only streamlines your workflow but also extends the lifespan of the rocker motor by eliminating the need to manually hold the platform during tube handling.



UNICO Rock-IT Tube Rockers are engineered for durability and near-silent operation, making them ideal for consistent, everyday use in any laboratory setting. With a gentle rocking motion at 25 RPM, these mixers ensure thorough and uniform mixing of specimens while preserving the delicate integrity of blood cells. They are perfect for preparing hematology controls swiftly, ensuring precise and reliable results.

The Rock-IT Tube Rocker features a reversible, non-slip pad that is autoclavable, accommodating larger and more challenging tubes with ease. Designed with a compact footprint, it maximizes bench top space efficiency, making it a practical choice for any lab environment. Available in capacities of 8, 15, or 32 tubes (up to 120 mm long), the Rock-IT provides flexible mixing options.

Additionally, the UNICO Rock-IT Tube Rocker comes with a one-year limited warranty, underscoring its quality and reliability. Optimize your lab operations and let the Rock-IT handle your mixing needs with precision and ease.

- Capacity of 8, 15 tubes, or 32 tubes, up to 120 mm long
- 25 rocking cycles per minute, for gentle mixing
- Non-slip, reversible and autoclave tube pad
- Compact size uses minimal bench top space
- One year limited warranty

Item No.	Description
L-TTR100	Rock-IT Jr. Tube Rocker, 8 Place
L-TTR100E	Rock-IT Jr., same as above, 220V
L-TTR200	Rock-IT Tube Rocker, 15 Place
L-TTR200E	Rock-IT, same as above, 220V
L-TTR200D	Rock-IT Tube Rocker, 32 Place, the "32 Rocker"
L-TTR200DE	Rock-IT, same as above, 220V
LTTR100-1	Replacement Tube Pad, 8 Place
LTTR200-1	Replacement Tube Pad, 15 Place



## Vortex Mixers

The LVM1000 (Single Tube) and LVM2000 (Platform) Vortex Mixers are designed to mix specimens in sample containers that are capped, or are otherwise sealed tightly to prevent liquid leakage, or a spill. These variable speed Vortex Mixers feature a 3 position switch allowing you to turn the instrument on/off, set for vortexing when the head/pad is touched, or to be set to continuous "ON" mode. With variable speeds ranging from 0 to 3,000 RPM, you can slowly mix, or vigorously mix specimens as needed.

Item No.	Description
LVM1000	Vortex Mixer, Tube Mixer
LVM1000E	Same as above, 220V
LVM2000	Vortex Mixer, Platform/Flask Mixer
LVM2000E	Same as above, 220V



L-VM2000 Platform  
Vibration Pad



L-VM1000 Single  
Tube Mixing Pad



L-VM2000

## Platform Lab Rotator

UNICO Orbital Rotator is a digitally controlled compact, durable, variable speed orbital mixer and is designed for demanding laboratory work. Designed to accommodate a wide variety of printed or glass well slides, culture plates, flasks and small test tube racks, as well as RPR and VDRL slides or 96 well microtiter (immunoassay) plates.

### Specifications:

- 10.5" x 10.5" mixing plate with removable rubber pad
- Variable speed 25~250rpm
- Digital speed display
- Orbital stroke is 20mm
- Digital timer for time setting up to 99 hours and 59 minutes
- Small flask securing spring included
- Molded heavy impact resistant plastic housing



LRT30C comes with humidity cover and sponge.

Item No.	Description
LRT30C	Platform Rotator with Humidity Cover and flask tie-down
LRT30C-E	Same as above, 220V
LRT30-01	Replacement humidity cover with sponge

## L-CU60 Compact Incubator



L-CU60

The L-CU60 is a highly accurate incubator that is small in size but big in performance. Featuring a see-through door that makes a visual check on your cultures quick and easy. With a capacity of 10 standard size culture plates per shelf, the nominal capacity is 20 plates. The acrylic body is a great insulator and is easy to clean and maintain. With a small footprint, this unit is perfect for labs with limited benchtop space.

### Specifications:

- Chamber Capacity: 6 Liters (0.21 cubic feet)
- Chamber Size: Internal Dimensions: 6.8"W x 7.7"D x 7"H
- Plate Capacity: 20 standard Culture Plates (10/shelf)
- Calibration: Dual temperature rheostats & a thermometer access port
- Temperature Range: Ambient to 60°C (Ambient to 140° F)
- Shelves: One removable shelf, perforated for air flow
- Temperature Control: Analog control, dual rheostat
- Display: LCD Digital Display
- Power/Consumption: 0.75 Amps / 80 Watts
- Heating: Forced air, chamber mounted circulating fan
- Stability: Will hold constant temperature +/- 0.5° C
- External Dimensions: 8.8"W x 11"D x 9"H
- Weight: Bench top weight – 8.5 Lbs.
- Weight: Shipping weight – 11 Lbs.

### Item No. Description

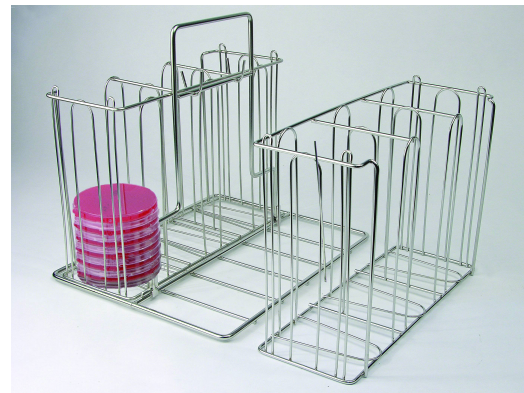
L-CU60	Compact Incubator, 20 Plates, 110 Volt
L-CU60E	Compact Incubator, 20 Plates, 220 Volt



Featuring a small footprint, the L-CU60 is perfect for labs where benchtop space is at a premium. Dual temperature rheostats allow very precise control over temperature setting and adjustment. The LED digital display enables users to monitor the chamber temperature.

Alarms (alarm 1 and alarm 2) alert users of abnormal conditions if the chamber temperature exceeds the setting temperature by 10°C.

## Culture Plate Rack and Caddy



Organize, batch, transport and incubate, all with one rack! our Stainless Steel wire racks are stackable and autoclavable. Each rack holds up to 48 culture plates. Stainless steel rack caddy safely transports two Plate Racks side by side and is also stackable for more efficient use of incubator space.

### Item No. Description

44510	Culture Plate Rack	12.5"W x 5"D x 9.5"H
44525	Culture Plate Rack Caddy	13"W x 9.5"D x 11.25"H

## L-CU200 Laboratory Incubator

UNICO incubators are designed for plates, tubes (slants), urine and general microbiology applications. The spacious stainless steel-lined interiors can also be used as fluid warmers. These incubators feature a double-door design, solid exterior door and a see-thru inner acrylic door.

### L-CU200 Specifications:

- Chamber Capacity: 20 Liters (0.7 cubic feet)
- Chamber Size: 312mm W x 308mm D x 230mm H (12.3" x 12.1" x 9")
- Calibration: Digital control & thermometer access port
- Temperature Range: Ambient to 70°C (Ambient to 155° F)
- Shelves: Two removable shelves, perforated for air flow
- Temperature Control: Digital Control
- Display: Digital Display
- Power/Consumption: 1.4 Amps / 150 Watts
- Heating: Convection
- Stability: Will hold constant temperature +/- 0.5° C
- External Dimensions: 500mm W x 287mm D x 305mm H (19.7" x 11.3" x 12")
- Weight: Bench top weight – 14 Kgs.
- Weight: Shipping weight – 16 Kgs.

Item	No.	Description
L-CU200		Laboratory Incubator, 20 Liter, 110 Volt
L-CU200E		Laboratory Incubator, 20 Liter, 220 Volt
DS-6-01		Replacement battery, Type CR2, 3 Volt Duracell



L-CU200

## L-CU100 Laboratory Incubator

A compact incubator, perfect for limited bench top space. Capable of heating from ambient up to 70°C (155°F) quickly and holding a constant temperature. Featuring a single door with a window, so you can visually inspect your cultures.

### L-CU100 Specifications:

- Chamber Capacity: 10 Liters (0.35 cubic feet)
- Chamber Size: 284mm W x 200mm D x 220mm H (11.2" x 7.8" x 8.6")
- Calibration: Digital control & thermometer access port
- Temperature Range: Ambient to 70°C (Ambient to 155° F)
- Shelves: Two stainless steel shelves
- Temperature Control: Digital Control
- Display: Digital Display
- Power/Consumption: 1.4 Amps / 150 Watts
- Heating: Convection
- Stability: Will hold constant temperature +/- 0.5° C
- External Dimensions: 495mm W x 273mm D x 305mm H (15.2" x 15.2" x 9")
- Weight: Bench top weight – 11.5 Kgs.
- Weight: Shipping weight – 13 Kgs.

Item	No.	Description
L-CU100		Laboratory Incubator, 10 Liter, 110 Volt
L-CU100E		Laboratory Incubator, 10 Liter, 220 Volt



L-CU100

## Microscopes, Video Microscopes and Accessories

UNICO Microscopes are designed to provide the maximum optical performance on durable and affordable platforms. We offer a variety of models and features, many models have the ability to mount cameras on a Trinocular (3rd Eye Tube), or down an eyepiece tube.

The key to microscope optical quality is in its objectives, or lenses. Objectives are graded as shown below. As the degree of Flat Field increases, both the quality of imaging and the cost increase is commensurate:

- **Achromat**      **"Good"**      **60-65% Flat Field of view**
- **Semi-Plan**     **"Better"**     **80-85% Flat Field of view**
- **Plan Achromat**   **"Best"**       **98-100% Flat Field of view**



Select from Good, Better or our Best objectives

### Need help selecting a Microscope?

Call us, toll free at 800-588-9776, or e-mail us at: [Info@unicosci.com](mailto:Info@unicosci.com) and we will help you pick the right microscope based on your applications.

### Wear your glasses!

With most UNICO microscopes, you can wear your glasses while looking through the microscope because we offer "High-Eyepoint Eyepieces". If this is an important feature to you, make sure to select a model with High Eyepoint eyepieces.



Keep your glasses on while using our High Eyepoint eyepieces

### LED Illuminators

UNICO is in the process of transitioning our microscopes to LED illuminators, away from traditional Halogen light sources. While we still offer many models with Halogen, we are increasing the number of LED models. LED's offer better energy efficiency and are more cost effective, eliminating the need to use blue filters and buy replacement bulbs.



Digital Video C-Mount Camera

### Video Microscopes

UNICO offers a variety of options for video-microscopy. The most popular are our Trinocular, or "Camera-Ready" microscopes; followed by Eyepiece Cameras, where the camera is mounted into a microscope eyepiece tube.



HD Microscope HDMI Camera

### Trinocular Camera-Ready Microscopes

All UNICO Trinocular microscopes feature the third port, or eye-tube. This is where a C-Mount Video Adapter is mounted, and a C-Mount camera can be attached. Always remember to order the C-Mount video adapter with your Trinocular microscope and camera. Each model uses a unique video adapter.

Select from Digital or Analog (S-Video) color video camera options. All digital cameras come with image capture software for Windows 7 & XP, which produce high resolution JPEG images.

Item No.	Description
B6-8185	1080P HD Microscope HDMI Camera. HDMI cord, Power Supply, 4GB MicroSD card and USB reader included
B6-8182	Digital Video C-Mount Camera, 14 MP, CMOS, with USB Cable & Win. XP / 7 Software
B6-1402	10x Eyepiece, High Eyepoint(24mm), Widefield for G300, G400, H600, IP700 and IV900

Item No.	Description
B6-2300	Set of Plan Objectives: 4x 10x 40x 100x
G380-2300	Set of Plan Achromatic Objectives: 4x 10x 40x 100x
G500-2100	Set of Plan Achromatic Objectives for G500: 4x 10x 40x 100x Full
G500-2400	Phase Set for G500 Series including 10x 20x 40x 100x Plan Phase Objectives, 10x/40x and 20x/100x Phase Sliders and Centering Telescope

## Android Tablet Camera

Android Tablet Camera seamlessly combines high-resolution imaging with an integrated display, offering a comprehensive solution for precise visual analysis and measurement. With its advanced features and user-friendly interface, this camera is ideal for applications requiring detailed image capture and accurate measurements.

### Specifications:

- Sensor Size: 1/2.8"
- Effective Pixels: 5 Million Pixels
- Screen Size: 10.1-inch
- Screen Resolution: Retina Display
- Resolution: 1200 x 1920 @ 60 FPS
- Pixel Size: 2.0 x 2.0 μm
- Power Supply: DC-12V/1A
- Output Options: USB2.0, SD Card, HDMI
- Intuitive mouse control for easy operation

Item No.	Description
CS-8027	11.9" LCD Monitor, 1920*1080 resolution, HDMI input port with stand
B6-8286	Android Tablet Camera Monitor with DC-12V Power Adapter and Mouse

## Eyepiece Camera

The UNICO Eyepiece Camera combines cutting-edge technology with user-friendly features to deliver high-definition imaging for a variety of industrial applications. This camera is designed for professionals who demand precision and versatility, offering full HD resolution and a range of advanced image adjustments.

### Specifications:

- Sensor Size: 1/3"
- Effective Pixel: Full HD
- Resolution: 1920 x 1080 @ 30 FPS
- Pixel Size: 2.75 x 2.75 μm
- Power Supply: DC-12V/1A
- Output Options: HDMI, USB, SD Card

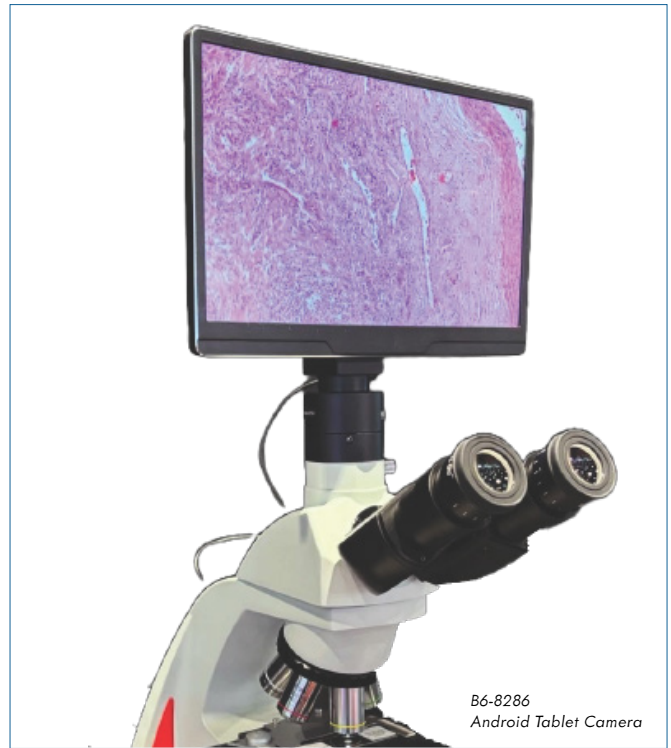
## Digital Video C-Mount Camera

The UNICO Digital Video C-Mount Camera is engineered for high-performance imaging in demanding environments. Ideal for applications requiring precise and reliable visuals, this camera delivers superior image quality with its advanced sensor technology and design.

### Specifications:

- Sensor Size: 1/2.5"
- Maximum Resolution: 2592 x 1944 pixels
- Pixel Size: 2.2 x 2.2 μm
- Color: Full Color
- Target Size: 1/2.5"
- Exposure Mode: Rolling Shutter
- Signal to Noise Ratio: 35dB
- Dynamic Range: 64dB
- Sensitivity: 2V/Lux.S

Item No.	Description
B6-8187	1080P HD Microscope HDMI Camera. HDMI cord, power supply, 4GB MicroSD card and USB reader included Digital Video
B6-8189	C-Mount Camera, 14 MP, CMOS, with USB Cable & Win. XP / 7 Software



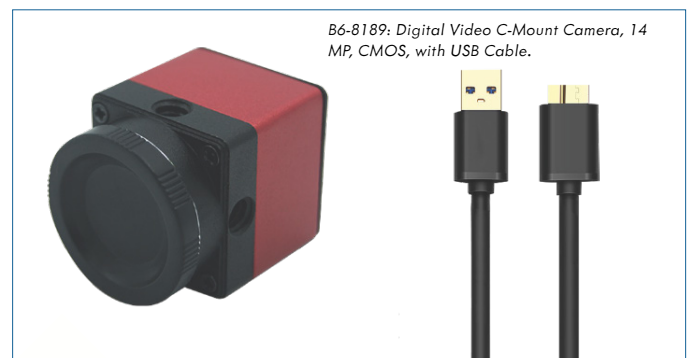
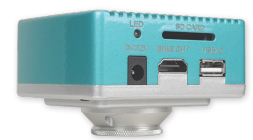
B6-8286  
Android Tablet Camera

UNICO offers a Digital Camera Kit for Colposcopes which include a CCD with C-Mount Port, C-Mount Adapter, and USB cable. **Need assistance choosing the right camera?** Get help from a dedicated UNICO representative, call us toll free at (800)-588-9776.



CS-8027: 11.9"  
LCD Monitor

B6-8187: 1080P HD Microscope  
HDMI Camera



B6-8189: Digital Video C-Mount Camera, 14  
MP, CMOS, with USB Cable.



## M250 General Lab Microscopes

The M250 is a low-cost series providing excellent value. At 80% the size of a large bench top microscope, it is compact and packed with features. Available with Monocular, Binocular, or Dual Viewing heads, we have an option to meet your needs. Formerly portable, the new M250's illumination system has been redesigned with a high intensity LED that works with a plug-in wall outlet. Halogen illuminated models are no longer available.

### Features:

- LED Illuminated
- All Heads rotate 360°
- Paired 10X Widefield Eyepieces
- 128x128mm built-in mechanical stage 25
- Reverse position nosepiece
- Iris Diaphragm
- Achromat or Plan Objectives
- 4X, 10X, 40X and 100X Oil
- Graduated Coarse/Fine Focus
- Will Accept B6-8182 Eyepiece Camera
- Includes dust cover, blue filter, and manual

Item No.	Description
M250LED	Binocular Microscope with Advanced Features
M251LED	Monocular Microscope with Advanced Features
M252LED	Dual Head Microscope with Advanced Features



Actual Size: 8.0" x 6.5" x 14.4"  
 Net Weight: 12.0 lbs  
 Shipping Weight: 13.0 lbs

M250

## M280 Microscopes

The M280 combines affordability with functionality. All the features of higher priced models in a slimmed down frame, all at a very economical price. The LED-illuminated M280 is a great choice for routine scope work: Wet Preps, Urines, Smears and Differential counts.

### Features:

- Binocular Head, rotates 360°
- Paired 10X Widefield Eyepieces
- 128x128mm built-in mechanical stage
- Reverse position nosepiece
- Iris Diaphragm
- LED Illuminated, 3 Watt
- Achromat or Plan Objectives
- 4X, 10X, 40X and 100X Oil
- Graduated Coarse/Fine Focus
- Will Accept B6-8182 Eyepiece Camera
- Broad range 110V/220V power supply
- Includes dust cover and manual

Item No.	Description
M280	Binocular microscope with Achromatic objectives
M280PL	Binocular Microscope with Plan-Achromatic objectives



M280

	M250LED	M251LED	M252LED	M280	M280PL
<b>Head</b>	Binocular	Monocular	Dual Head	Binocular	Binocular
<b>Eyepiece</b>	10X WF (2)	10X WF	10X WF (2)	10X WF (2)	10X WF (2)
<b>Objectives</b>	4,10,40,100X	4,10,40,100X	4,10,40,100X	4,10,40, 100X	Plan
<b>Condenser</b>	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	LED	LED	LED	LED	LED
<b>Bulb</b>	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial



## G380 Series Microscopes



Actual Size: 9.5" x 7.5" x 16.0"  
 Shipping Dimension: 13.5" x 10.5" x 17.5"  
 Net Weight: 14.0 lbs  
 Shipping Weight: 18.0 lbs

G380PL-LED  
 Objectives



The G380 combines state of the art design and features with the latest optical coating technologies for crisp, clear imaging on a versatile and ergonomic platform. All models in the G380 series feature "High-Eyepoint" 10x widefield eyepieces. This unique design allows users wearing glasses to comfortably view through the scope without removing their glasses as they would have to with traditional eyepieces.

Available with your choice of Monocular, Dual-View, Binocular, or Trinocular heads, all of which rotate 360°. Select from standard Achromat, Semi-Plan, or flat-field Plan achromat objectives. All models have 30° head angles.

Includes a focusable 1.25 NA Abbe condenser with Iris Diaphragm, oversized graduated coaxial coarse and fine focus controls, swing-out filter holder and a port to allow insertion of a Phase Annulus for Phase microscopy. A ball-bearing movement mechanical stage is also standard with low position coaxial controls.

Features an integrated dual voltage transformer (110V and 220V) and a detachable power cord so you can use this scope anywhere in the world.

Options include Koehler illumination, Phase contrast objectives, and a Dual Slide Holder.

Item No.	Description
G380-LED	Binocular Microscope with Achromat Objectives
G380SP-LED	Binocular Microscope with Semi-Plan Objectives
G380PL-LED	Binocular Microscope with Plan Objectives
G381-LED	Monocular Microscope with Achromat Objectives
G381SP-LED	Monocular Microscope with Semi-Plan Objectives
G382-LED	Dual Head Microscope with Achromat Objectives
G382SP-LED	Dual Head Microscope with Semi-Plan Objectives
G382PL-LED	Dual Head Microscope with Plan Objectives
G383-LED	Trinocular Microscope with Achromat Objectives
G383SP-LED	Trinocular Microscope with Semi-Plan Objectives
G383PL-LED	Trinocular Microscope with Plan Objectives
G380-8021	0.65x Video Adapter with C-Mount
B6-9005	Fuse, 1.5A, 250V
G380-8034	10x Semi-Plan Phase Objective & Slide-In Annulus
G380-8031	40x Semi-Plan Phase Objective & Slide-In Annulus
B6-8910	Optical Cleaning Kit

	G380-LED	G380SP-LED	G380PL-LED	G381-LED	G381SP-LED
<b>Head</b>	Binocular	Binocular	Binocular	Monocular	Monocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF Hi-EP	10X WF Hi-EP
<b>Objectives</b>	4,10,40,100X	4,10,40,100X	4,10,40,100X	4,10,40,100X	4,10,40,100X
	Achromat	Semi-Plan	Plan	Achromat	Semi-Plan
<b>Condenser</b>	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	LED	LED	LED	LED	LED
<b>Bulb</b>	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial

# Med/Vet Practice Microscopes



G382-LED with Dual Head



G383-LED with Trinocular Head (shown with optional C-mount camera adapter)



G381-LED with Monocular Head

## Specifications:

- **HEADS:** Available with Monocular, Binocular, Dual View or Trinocular heads with 52 – 75 mm interpupillary distance adjustment. All rotate 360°, have a 30° viewing angle, and lock in-place with a thumbscrew
- **EYEPIECES:** Standard with 10x "High-Eyepoint" widefield oculars designed to improve viewing while wearing glasses. Reticules and Pointers available on request
- **OBJECTIVES:** All models feature DIN Standard 4x, 10x, 40xR and 100xR objectives. 40 and 100x objectives are "R", or Retractable. Options are: Achromat, Semi-Plan, or Plan Achromats. Simple Phase Contrast is available in 40x
- **OBJECTIVE Numerical Aperture:** 4x = NA 0.10 10x = NA 0.25 40x = NA 0.65 100x = NA 1.25
- **MAGNIFICATION:** With 10x eyepieces, standard magnification is 40x, 100x, 400x and 1,000x (Oil Immersion)
- **CONDENSER:** Features a focusable NA 1.25 Abbe condenser with port for optional Simple Phase Contrast Annulus insertion. Focusable with rack and pinion movement
- **STAND and Nosepiece:** Sturdy cast metal frame with polymer accent panels, designed to provide stability
- **STAGE:** Built-in Graduated Mechanical Stage with low-position coaxial X-Y controls. Ball bearing movement allows for smooth, precise adjustments. Stage size: 142 mm x 132 mm. Range of X-Y stage movement: 55 mm x 75 mm. Spring loaded slide holder
- **IRIS DIAPHRAGM:** Features adjustable Iris with metal leaf overlay design. Optical design allows for Blue and other filters to be mounted in the illuminator housing
- **FOCUSING:** Features smooth, extra-large graduated coaxial coarse and fine focus controls with tension adjustment to eliminate stage drift. Adjustable to your personal preferences
- **ILLUMINATION:** 3 Watt LED light source standard. Variable intensity rheostat wheel is located on the left side of the base
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz, universal power supply. The fuse rating is 250V 1.5A
- Complete with dust cover, two extra fuses and operation manual

	<b>G382-LED</b>	<b>G382SP-LED</b>	<b>G382PL-LED</b>	<b>G383-LED</b>	<b>G383SP-LED</b>	<b>G383PL-LED</b>
<b>Head</b>	Dual Head	Dual Head	Dual Head	Trinocular	Trinocular	Trinocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP
<b>Objectives</b>	4,10,40,100X Achromat	4,10,40,100X Semi-Plan	4,10,40,100X Plan	4,10,40,100X Achromat	4,10,40,100X Semi-Plan	4,10,40,100X Plan
<b>Condenser</b>	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris	Iris	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	LED	LED	LED	LED	LED	LED
<b>Bulb</b>	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial

# Phase Contrast Microscopes

## G380 Phase Contrast Microscopes

Introducing UNICO G380 Series Phase Contrast microscopes; designed and built on our versatile and reliable G380 platform. Select Simple-Phase with a 10x or 40x Semi-Plan Phase Contrast objective, or Full-Phase with 4x Brightfield and 10, 40 & 100x Semi-Plan Phase Contrast objectives with Turret Condenser. All Phase microscopes include our Koehler Field Iris Diaphragm for optimal illumination control, a must with Phase contrast. These scopes are perfect for semen analysis and any applications where you are viewing transparent, translucent and/or unstained specimens, such as wet preps, urines and smears/ear swabs.

### Features:

- Binocular or Camera-ready Trinocular heads, 30° incline
- Full-Phase Contrast with Turret Condenser & Centering Telescope
- Simple Phase Contrast option, with 10X or 40X Semi-Plan Phase
- Semi-Plan Phase Contrast Objectives: 10X, 40X & 100X
- Coaxial Coarse and Fine Focus, with tension adjustment
- Stage size: 142mm x 132mm, with Dual Slide Holder
- Stage range of X/Y movement: 55mm x 75mm
- LED Illumination, 3 Watt, super bright
- Optional portable LED illuminator, battery powered
- Illumination intensity rheostat (dimmer)
- NA 1.25 Abbe Condenser with Iris Diaphragm
- Koehler Field Diaphragm (Iris), in illuminator
- Green filter included for Phase Contrast viewing
- Digital USB or S-Video C-Mount Camera options

The G380 with G380-8034  
10x SP Phase Kit



### Low-cost Phase options



G380-8031  
40x SP Phase Kit



G380-8034 10x  
SP Phase Kit

Quickly turn your G380 Series microscope into a Phase Contrast microscope with our Phase Kits. Our 10x Semi-Plan Phase Kit includes 10x Semi-Plan Phase Objective and Slide-in Annulus. Our 40x Semi-Plan Phase Kit includes 40x Semi-Plan Phase Objective and Slide-in Annulus.



Make your G380 portable easily with our battery powered LED illuminator G380-7001. Snaps into place easily and comes with 3 AA batteries.



Models with Full-Phase Contrast (10, 40 & 100x S-P Phase Objectives) include the Turret Condenser with positions for 10, 40 & 100x Phase plus a "0" setting for Brightfield objective use and a Centering Telescope to center the condenser with the objectives.

Item No.	Description
G380PH-40	Binocular G380 microscope with 4x & 10x Brightfield objectives, 40x Semi-Plan Phase Contrast objective with 40x Annulus Slider & 100x Brightfield objective. Includes Koehler Field Iris and LED illumination
G380-8021	C-Mount Camera Adapter 0.65x for Camera-Ready Trinocular Heads
B6-8185	Digital Video C-Mount camera Camera, 5.6 Mega Pixel with image capture software for Windows XP/7 and USB cable (requires G380-8021 listed above)
G380-7001	Portable Battery-Powered LED Illuminator, uses 3 AA Batteries (included)



## G386-LED Infinity

Infinity Optics takes the G380 Series to the next level of microscopy. Designed to offer superior imaging with 10X High Eye-Point eyepieces engineered to reduce eye strain for users wearing glasses and crisp Infinity objectives (Achromat or Plan). Each eye tube features an independent focusing diopter. Oversized coarse and fine focus controls and low-position coaxial mechanical stage controls.

The New G388 Dual-Binocular Head Infinity microscope is an excellent tool for instruction, or conferring with a colleague. It will increase your productivity and confidence in results.

### Specifications:

- **HEADS:** Available with Binocular or Dual Binocular heads with 30° incline, 52 – 75 mm interpupillary distance adjustment. All rotate 360°, and lock in-place with a thumbscrew
- **EYEPIECES:** Standard with 10x "High-Eyepoint" extra-widefield oculars. Reticules and Pointers available on request
- **OBJECTIVES:** Featuring Infinity Optics, Achromat or Plan, 4x, 10x, 40xR and 100xR objectives. 40 and 100x objectives are "R", or Retractable. 100x is an Oil Immersion objective
- **OBJECTIVE Numerical Aperture:** 4 = NA 0.10 10x = NA 0.25 40x = NA 0.65 100x = NA 1.25
- **STAGE:** Built-in Graduated Mechanical Stage with low-position coaxial X-Y controls. Ball bearing movement allows for smooth, precise adjustments. Stage size: 142 mm x 132 mm. Range of X-Y stage movement: 55 mm x 75 mm. Spring loaded slide holder

Item No.	Description
G386-LED	Binocular Infinity Achromat Microscope
G386PL-LED	Binocular Infinity Plan Microscope
G388-LED	Dual Binocular Infinity Achromat Microscope
G388PL-LED	Dual Binocular Infinity Plan Microscope
B6-8182	2.0 Mega Pixel Digital USB Eyepiece Camera with Image Capture Software and USB Cable



## G388-LED Dual Binocular Head Infinity Optics Microscope

- **CONDENSER:** Features a focusable NA 1.25 Abbe condenser. Focusable with rack and pinion movement
- **IRIS DIAPHRAGM:** Features adjustable Iris with metal leaf overlay design. Optical design allows for Blue and other filters to be mounted in the illuminator housing
- **FOCUSING:** Features smooth, extra-large graduated coaxial coarse and fine focus controls with tension adjustment to eliminate stage drift. Adjustable to your personal preferences
- **ILLUMINATION:** 3 Watt LED
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz, universal power supply. The fuse rating is 250V 1.5A
- Complete with dust cover, blue filter, two extra fuses and operation manual

	G386-LED	G386PL-LED	G388-LED	G388PL-LED
<b>Head</b>	Binocular	Binocular	Dual-Binocular	Dual-Binocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(4)Hi-EP	10X WF(4)Hi-EP
<b>Objectives</b>	4,10,40,100X	4,10,40,100X	4,10,40,100X	4,10,40,100X
	Infinity Achromat	Infinity Plan	Infinity Achromat	Infinity Plan
<b>Condenser</b>	NA 1.25	NA 1.25	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial	Coaxial	Coaxial



Simply snap-in a G380-7001 LED Illuminator and make your G380 portable.

Increasingly practitioners are going mobile, direct to their patient's location. Whether you are a Physician, Visiting Nurse or Mobile Vet; we have portable products to meet your needs.

Portable Microscopes: G380 Series Microscopes are available in a variety of portable configurations with battery powered (3 AA's) LED illuminator and carry case. Additional options include Phase Contrast (see pages 26-28 for more details).

Portable Centrifuges: Six place PX Porta-Spin centrifuges are available with 12 Volt DC car lighter adapters, or AC adapters for use back at your lab. (see page 5 for more details).

### Portable Microscope and Centrifuge Packages:

Item No.	Description
G380-C826	G380LED Binocular Achromat Scope w/LED Battery Pack, Carry Case and C826 Centrifuge with 12 VDC car adapter
G380PL-C826	G380LED Binocular Plan Achromat Scope w/LED Battery Pack, Carry Case and C826 Centrifuge with 12 VDC car adapter
G380PH-C826	G380LED Binocular, Semi-Plan Phase Scope w/LED Battery Pack, Carry Case and C826 Centrifuge with 12 VDC car adapter
G380PH-C826-AC	G380LED Binocular, Semi-Plan Phase Scope w/LED Battery Pack, Carry Case and C826 Centrifuge with 12 VDC car adapter and 110 Volt AC plug-in wall power adapter

## Portable Microscope and Centrifuge Packages for Mobile Practices



**G380-8907**

Our Metal Carrying Case is custom-designed to fit your G380 Series microscope. With foam-lined protection, it even has extra storage space for your optional LED illuminator and Semi-Plan Phase Kit. Perfect for a mobile practitioner. Complete with handle, lock and two keys.



**G380-7001**

LED Illuminator operates on 3 AA batteries (included).



**PX, C826**

PortaSpin portable centrifuge features a level built into the lid to make sure you are level before and during your run. A sturdy stainless steel handle makes carrying the centrifuge easy.

### Portable Microscopes and Centrifuges:

Item No.	Description
G380-P	G380LED Binocular, Achromat (4/10/40/100X), LED battery pack & carry case
G380-PPL	G380LED Binocular, Plan Achromat (4/10/40/100X), LED battery pack & carry case
G380-PHP	G380LED Binocular 40X Semi-Plan Phase (and 4/10/100X Brightfield), LED battery pack & carry case
G380-PHP2	G380LED Binocular Semi-Plan Phase (10/40/100X), LED battery pack & carry case
G380-9008	BackPack™ Supplies Organizer for G380 Series
G380-8034	10x Semi-Plan Phase kit, Objective and Annulus Slider
G380-8031	40x Semi-Plan Phase kit, Objective and Annulus Slider
G380-7001	Portable LED Illuminator for G380, uses 3 AA batteries, Included
G380-7002	Portable Mirror Assembly for G380 Series
C826	PX Porta-Spin Portable Centrifuge, 6 Place, fixed speed with 12V Car adapter
C826-12	AC Adapter for PX, Porta-Spin Centrifuges, 110V
C800-18	Tube Holdster, 18-Place

## G500 Series Microscopes

The G500 Advanced Microscopes series are full-featured, versatile and scalable. Designed for users whose applications require them to deploy various microscopy techniques. An LED illuminated series with options ranging from Plan Brightfield, to Full Phase Contrast, to dedicated Polarizing models.

- **HEADS:** Binocular, or Camera-Ready Trinocular, inclined 30°
- **EYEPIECES:** Paired 10x Wide Field, High Eyepoint with Dual Diopter and FN 18 mm
- **STAGE:** Graduated Mechanical Stage with low-position coaxial X-Y controls. Ball bearing movement allows for smooth, precise adjustments. Stage size is 180 mm x 150 mm and the range of X-Y stage movement is 80 mm x 50 mm
- **OBJECTIVES:** Achromat or Plan Achromatic objectives: 4x, 10x, 20x, 40x, 100x (oil). Additional objectives are available on request. 5 Place nosepiece provides flexibility
- **CONDENSER:** Focusable and centerable N.A. 1.25 Abbe condenser with graduated iris diaphragm
- **KOEHLER FIELD IRIS:** Graduated field Iris allows precise positioning to be set based on specific type of specimen being viewed
- **ILLUMINATION:** High intensity LED with rheostat to control intensity
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz, universal power supply. The fuse rating is 250V 1.5A
- **INCLUDED ACCESSORIES:** Complete with dust cover, two extra fuses, neutral density filter and operation manual



G502T

Actual Size: 16"H x 6"W x 12"D Shipping  
Dimension: 21"L x 19"W x 10"H Net  
Weight: 14.5 lbs  
Shipping Weight: 19 lbs

Item No.	Description
G502	Binocular Microscope with Achromat Objectives
G502T	Trinocular Microscope with Achromat Objectives
G504	Binocular Microscope with Plan Objectives
G504T	Trinocular Microscope with Plan Objectives
G500-8020	C-Mount Camera Adapter, 0.35x with Diopter



G500's feature a unique combination system of Graduated Iris Diaphragm mounted in the Condenser, paired with a Graduated Kohler Field Iris built into the Illuminator housing. These features allow maximum illumination control, perfect for viewing unstained specimens.

The graduations also allow a multi-user practice to set both Irides at the optimal setting based on the specimen type being viewed insuring consistent viewing parameters.



Digital HDMI camera with C-Mount camera adapter



G504 Objectives

	G502	G502T	G504	G504T
<b>Head</b>	Binocular	Trinocular	Binocular	Trinocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF Hi-EP	10X WF Hi-EP
<b>Objectives</b>	4,10,40,100X Achromat	4,10,40,100X Achromat	4,10,40,100X Plan	4,10,40,100X Plan
<b>Condenser</b>	NA 1.25	NA 1.25	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial	Coaxial	Coaxial

## G500 Series Phase Contrast Microscopes

Viewing unstained transparent or translucent specimens has never been easier or more effective. The G500 includes easy to use Phase Sliders (10x/40x and 20x/100x) that mount in the condenser by simply sliding them from one side to the other. No more aligning screws, just simplicity.

- **HEADS:** Binocular, or Camera-Ready Trinocular, inclined 30°
- **EYEPIECES:** Paired 10x Wide Field, High Eyepoint with Dual Diopter and FN 18 mm
- **STAGE:** Graduated Mechanical Stage with low-position coaxial X-Y controls. Ball bearing movement allows for smooth, precise adjustments. Stage size is 180 mm x 150 mm and the range of X-Y stage movement is 80 mm x 50 mm
- **OBJECTIVES:** Plan Phase 10x, 20x, 40x and 100x with 4x brightfield.
- **CONDENSER:** Focusable and centerable N.A. 1.25 Abbe condenser with graduated iris diaphragm. Phase contrast annulus sliders fit through center slot on condenser
- **KOEHLER FIELD IRIS:** Graduated field Iris allows precise positioning to be set based on specific type of specimen being viewed
- **ILLUMINATION:** High intensity LED with rheostat to control intensity
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz, universal power supply. The fuse rating is 250V 1.5A
- **INCLUDED ACCESSORIES:** Complete with dust cover, two extra fuses, green filter and operation manual



G504T

Actual Size: 16"H x 6"W x 12"D  
Shipping Dimension: 21"L x 19"W x 10"H  
Net Weight: 14.5 lbs  
Shipping Weight: 19 lbs

Item No.	Description
G505	Binocular Phase Contrast Microscope with 10x, 20x, 40x and 100x Plan Phase, and 4x Brightfield Objectives
G505T	Trinocular (Camera-Ready) Phase Contrast Microscope with 10x, 20x, 40x and 100x Plan Phase Objectives, and 4x Brightfield Objective
G500-8020	C-Mount Camera Adapter, 0.35x with Diopter control
G500-8031	10x/40x Phase Contrast Annulus Slider
G500-8032	20x/100x Phase Contrast Annulus Slider

### Phase Contrast Slider



G500-8031

Phase contrast objectives require the use of a matching annulus in the condenser. We offer two phase annulus sliders as shown to the left. The first is matched to the 10x and 40x objectives, and the other is matched to the 20x and 100x objectives. Using these sliders makes phase contrast quick and easy as compared to traditional turret condensers.



G500-8032



Phase kit with centering telescope, one 10x/40x slider, one 20x/100x slider, and 10x, 20x, 40x, and 100x phase contrast objectives.

	G505	G505T
<b>Head</b>	Binocular	Trinocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP
<b>Objectives</b>	4,10,40,100X Plan Phase 4X Brightfield	4,10,40,100X Plan Phase 4X Brightfield
<b>Condenser</b>	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical
<b>Illumination</b>	3 Watt LED	3 Watt LED
<b>Focusing</b>	Coaxial	Coaxial



## G500 Series Polarizing Microscopes

G500 Polarizing Microscopes are full-featured and LED illuminated. Designed with a round 360° rotating stage, graduated in one degree increments and filters for full crystal visualization. G500's feature a unique combination system of Graduated Iris Diaphragm mounted in the Condenser, paired with a Graduated Koehler Field Iris built into the Illuminator housing. These features along with an intensity rheostat allow for maximum illumination control.

Polarization system consists of a 360° rotating round stage, 360° rotatable polarizer, 360° rotatable analyzer, three Compensator Plate sliders (Gypsum, Mica & Quartz) and a swing-out Intermediate Tube Analyzer (90°).

- **HEADS:** Binocular, or Camera-Ready Trinocular, inclined 30°
- **EYEPIECES:** Paired 10x Wide Field, High Eyepoint with Dual Diopter and FN 18 mm
- **STAGE:** Round 360° rotating stage, 160mm diameter, graduated
- **OBJECTIVES:** Plan Destressing Polarizing Objectives: 10x, 20x and 40x and 4x brightfield
- **POLARIZATION SYSTEM:** Polarizer, Analyzer, three Compensator Plates and a swing-out Intermediate Tube Analyzer (90°)
- **CONDENSER:** Focusable and center able N.A. 1.25 Abbe condenser with graduated iris diaphragm
- **KOEHLER FIELD IRIS:** Graduated field Iris allows precise positioning to be set based on specific type of specimen being viewed
- **ILLUMINATION:** High intensity 3 Watt LED with rheostat to control intensity. Koehler illumination field diaphragm for superior contrast control. Phase contrast and Polarizing options are available
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz, universal power supply. The fuse rating is 250V 1.5A
- **INCLUDED ACCESSORIES:** Complete with dust cover, two extra fuses, neutral density filter and operation manual
- **CONTROL SLIDE:** Includes Urate (Uric Acid) Crystal Control Slide
- **WARRANTY:** Five Year Limited Warranty, One Year on electrical system; excludes bulbs and fuses

UNICO offers a unique Urate Crystal Control Slide (item #97100) specifically designed to assist in proper setup of your polarizing microscope and as a urate crystal control to assist in confirmation of your results. The control slide can also be used as a teaching aid for Rheumatology and Urology.

Item No.	Description
G508	Binocular Polarizing Microscope with 10x, 20x and 40x Plan Objectives plus 4x brightfield
G508T	Trinocular Polarizing Microscope with 10x, 20x and 40x Plan Objectives plus 4x brightfield
G500-8020	C-Mount Camera Adapter, 0.35x with Diopter
97100	Urate Crystal Control Slide

	G508	G508T
<b>Head</b>	Binocular	Trinocular
<b>Eyepiece</b>	10X WF(2)Hi-EP	10X WF(2)Hi-EP
<b>Objectives</b>	4,10,40,100X Plan	4,10,40,100X Plan
<b>Condenser</b>	NA 1.25	NA 1.25
<b>Diaphragm</b>	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical
<b>Illumination</b>	LED	LED



G508 Plan Objectives



Actual Size: 18"H x 6"W x 12"D Shipping  
Dimension: 21"L x 19"W x 10"H Net  
Weight: 14.5 lbs Shipping Weight: 19 lbs

G508



## IP730/IP750 Series Microscopes

The IP730 from UNICO is designed to provide crisp, clear imaging on a versatile and ergonomic platform. Available with a variety of optics and configuration choices. The IP750 series is designed with high-end Infinity optics.



Oversized stage,  
180 mm x 150 mm

IP730

- **HEADS:** Binocular or Trinocular heads. Featuring 55 - 75 mm interpupillary distance adjustment. Both heads rotate 360°, one eye tube with diopter adjustment
- **EYEPIECES:** 10X, 20mm FN High Eyepoint Widefield (IP730) or 10X, 22mm FN High Eyepoint Widefield (IP750)
- **STAGE:** Graduated Mechanical Stage with low-position coaxial X-Y controls. Ball bearing movement allows for smooth, precise adjustments. Stage size is 180 mm x 150 mm and the range of X-Y stage movement is 80 mm x 50 mm
- **OBJECTIVES:** All models are equipped with either achromatic or plan Infinity 4X, 10X, 40XR and 100XR (Oil) objectives. The Phase Contrast model has 4X Plan, 10X, 40X, and 100X Plan Phase objectives
- **CONDENSER:** Focusable and centerable N.A. 1.25 Abbe condenser with graduated iris diaphragm and filter holder
- **ILLUMINATION:** Koehler illumination with field iris diaphragm featuring a 6 Volt / 20 Watt Halogen light source. Variable intensity rheostat wheel is located on the left side of the base
- **ELECTRICAL:** 110V- 60 Hz to 240V- 50 Hz
- Complete with dust cover, blue filter, two extra fuses and operation manual

Item No.	Description
IP730	Advanced Binocular Microscope, Achromat
IP730SP	Advanced Binocular Microscope, Semi-Plan
IP730PL	Advanced Binocular Microscope, Plan
IP733	Advanced Trinocular Microscope, Achromat
IP733SP	Advanced Trinocular Microscope, Semi-Plan
IP733PL	Advanced Trinocular Microscope, Plan
IP735	Advanced Binocular Microscope, Plan Phase
IP735T	Advanced Trinocular Microscope, Plan Phase
IP750-8901	Carrying Case for IP730 Series, Lockable
IP730-8030	Plan Phase Set with 10, 40,100X Objectives
IP750-8020	C-Mount Video Adapter for IP730 and IP750 Series
IP750-6003	Dark Field Condenser for IP730 and IP750 Series

Item No.	Description
IP750	Advanced Binocular Infinity Microscope, Achromat
IP750PL	Advanced Binocular Infinity Microscope, Plan
IP753	Advanced Trinocular Infinity Microscope, Achromat
IP753PL	Advanced Trinocular Infinity Microscope, Plan
IP755	Advanced Binocular Infinity Plan Phase Microscope
IP755T	Advanced Trinocular Infinity Plan Phase Microscope
IP750-8901	Carrying Case for IP750 Series, Lockable
IP750-8030	Infinity Plan Phase Set with 10, 40,100X Objectives
IP750-8020	C-Mount Video Adapter for IP730 and IP750 Series
IP750-6003	Dark Field Condenser for IP730 and IP750 Series
B6-7006	Halogen Bulb, 6 Volt / 20 Watt
B6-9005	Fuse, 50V, 1.5A



IP733: Advanced Trinocular Microscope



Close-up of graduated Iris diaphragm, graduated Koehler Illuminator diaphragm and graduated fine focus control



IP750 Plan Phase Contrast Set

## IV980 Series Inverted Microscopes

UNICO IV980 Series Inverted Microscopes are designed for Tissue Culture, Cell Biology, Microbiology and more. Featuring Binocular or Trinocular heads and Long Working Distance (LWD) objectives in your choice of Plan Achromat or Plan Phase Contrast. The over-sized stage offers precise and smooth ball-bearing movement, for clear, steady viewing while scanning the field of view. Precise fine focus controls move in 0.002 mm scale value increments. Phase Contrast models include a Centering Telescope.

### LWD Plan Objectives Available:

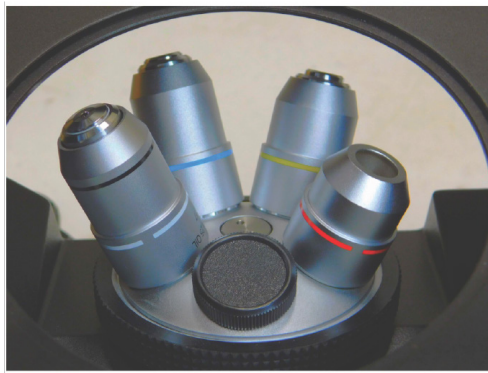
Plan Achromat Brightfield: 4x, 10x, 20x and 40x Plan  
Phase Contrast: 10x, 20x, and 40x

### Specifications:

- Inverted microscope, 4-hole nosepiece
- Binocular head inclined 45°, vertical Trinocular
- Interpupillary Distance range: 50 -75 mm
- Bright 12 Volt / 30 Watt Halogen Bulb
- Intensity Rheostat for lighting control
- Plan Achromat, or Plan Phase Objectives
- 10x Extra-Widefield eyepieces, paired
- Left eyetube with Diopter focus control
- Optional cross-hair Reticule, 0.1mm scale
- Stage Size: 242 mm x 172 mm
- Graduated Mechanical Stage, low position controls
- Center Stage ring diameter is 110 mm
- Centering Telescope included with Phase models
- Filters: Blue, Green, Yellow and Frosted



IV981



Close-up of the inverted nosepiece and objectives.

	IV981	IV982	IV983
<b>Head</b>	Trinocular	Trinocular	Trinocular
<b>Eyepiece</b>	10X WF(2)	10X WF(2)	10X WF(2) and centering eyepiece
<b>Brightfield Objectives</b>	4,10,40X Plan	4,10,40X Plan	4X Plan
<b>Phase Objectives</b>	None	20x Plan Phase	10,20,40X Plan Phase
<b>Condenser</b>	NA 0.65	NA 0.65	NA 0.65
<b>Diaphragm</b>	Iris	Iris	Iris
<b>Stage</b>	Mechanical	Mechanical	Mechanical
<b>Illumination</b>	Halogen	Halogen	Halogen
<b>Bulb</b>	12 Volt/30 Watt	12 Volt/30 Watt	12 Volt/30 Watt
<b>Focusing</b>	Coaxial	Coaxial	Coaxial

Item No.	Description
IV981	Inverted Trinocular, Plan Brightfield, 4x, 10x, 40x
IV982	Inverted Trinocular, Plan Brightfield, 4x, 10x, 40x and Plan Phase 20x Objectives
IV983	Inverted Trinocular, Brightfield Plan, 4x, Plan Phase 10x, 20x, 40x
IV980-1501	10x Widefield Eyepiece, FN 22 mm, single
IV980-1502	10x Widefield Eyepiece with Reticule, FN 22 mm, single
IV980-2301	4x/10.10 Plan Long Working Distance Objective, WD22mm
IV980-2302	10x/0.25 Plan Long Working Distance Objective, WD22mm
IV980-2303	40x/0.60 Plan Long Working Distance Objective, WD3.7mm
IV980-2305	20x/0.40 Plan Long Working Distance Objective, WD7.6mm
IV980-2308	60x/0.70 Plan Long Working Distance Objective, WD2.5mm
IV980-2432	10x/0.25 Phase Plan Long Working Distance Objective, WD7.9mm
IV980-2433	40x/0.60 Phase Plan Long Working Distance Objective, WD3.7mm
IV980-2435	20x/0.40 Phase Plan Long Working Distance Objective, WD7.6mm
IV980-5002	35mm Petri Dish Holder
IV980-5003	Slide Holder
IV980-5004	Terasaki Holder
IV980-6011	45mm Green Contrast Color Filter
IV980-6015	45mm Infrared-Eliminating Color Filter
IV980-6016	Color Temperature Transition Color Filter
IV980-8020	05x C-Mount CCT Adapter

## ZM190 Zoom Stereomicroscopes



ZM194T



ZM191T



ZM196T

The ZM190 Series Zoom Stereomicroscopes offer smooth, continuous zoom magnification, through the entire 7x – 45x range. Available with a variety of stand and illumination choices; the standard optical configurations give 7 - 45x with 10x eyepieces. However, the magnification range can vary from 2.1x to 225x depending on the combination of eyepieces and auxiliary objective lenses you select.

### ZM190 Series Standard Features:

- Continuous Zoom Trinocular Heads, 7 – 45x
- Parfocal Zoom stays in focus over entire zoom range
- Superior optical design with crisp resolution
- Heads rotate 360°, and lock in-place with thumb screws
- Eyepieces are inclined at a 45° angle for viewing comfort
- Dual-Diopter, independent focus controls on each eyetube
- Interpupillary Distance Adjustment of 55 mm to 75 mm
- Working distance of 108 mm (with standard optical configuration)
- All metal head, stand and body construction

### ZM190 Series Options and Accessories:

- Extra-Widefield Eyepieces: 10x, 15x, 20x and 25x
- Auxiliary Objectives: 0.3x, 0.5x, 0.75, 1.5x and 2x
- Magnification range of: 2.1x to 225x depending on optics selected
- Stand Selection: Solid Arm or Pillar/Post Mount
- Illumination choices: Halogen, Fluorescent and Fiber Optics
- Camera Adapters for C-Mount Video or SLR cameras
- Frosted, Clear and Black/White Stage Plates

We have a Zoom Stereo for you! Available with a wide variety of optical, stand and illumination options we have a model for your application. For temperature sensitive work such as fertility or insemination applications, we recommend models with cool-burning fluorescent bottom illumination to eliminate overheating your specimens. As you review the following selections keep in mind the range of eyepieces and auxiliary objective lenses available:

Item No.	Description	Stand	Illumination
ZM191T	Trinocular Zoom Stereo	Pillar/Post	LED
ZM194T	Trinocular Zoom Stereo	Pillar/Post	LED
ZM196T	Trinocular Zoom Stereo	Focusing Arm	Halogen (top) Fluorescent (bottom)

### Optical Accessories for the ZM Series

Item No.	Description
ZM190-1402	10x Widefield Eyepiece, each
ZM190-2001	2x Auxiliary Lens
ZM190-2002	1.5x Auxiliary Lens
ZM190-2003	0.75x Auxiliary Lens
ZM190-2004	0.5x Auxiliary Lens
ZM190	C-Mount Camera Adapter

# Glove / Towel Dispensers

## Glove Box Dispensers



22150 Glove Box Dispenser, 1 Horizontal / 1 Vertical



22250 Glove Box Dispenser, 2 Horizontal



22350 Glove Box Dispenser, 3 Horizontal

Always searching for your gloves? Mount a dispenser on the wall; your gloves will be in the same place every time and free-up benchtop space! Select 1, 2 or 3 box holders. Made of heavy duty 3/16" thick acrylic for long life.

- Benchtop, or wall mount to save benchtop space
- Keeps gloves in the same place, easy to find
- Single, Double, or Triple: horizontal or vertical mounts
- Fits any size/brand glove box
- Includes mounting hardware
- Single box dispenser can be mounted horizontally or vertically

Item No.	Description	UOM	Size
22150	Glove Box Dispenser, 1 Horizontal / 1 Vertical	EA	11"W X 4.25"D X 6"H
22250	Glove Box Dispenser, 2 Horizontal	EA	11"W X 4.25"D X 10"H
22272	Glove Box Dispenser, 2 Vertical	EA	5.5"W X 4"D X 20"H
22373	Glove Box Dispenser, 3 Vertical	EA	5.5"W X 4"D X 30"H
22350	Glove Box Dispenser, 3 Horizontal	EA	11"W X 4.25"D X 16"H



Our vertical dispensers can also be mounted horizontally, as shown



22272 Glove Box Dispenser, 2 Vertical

22373 Glove Box Dispenser, 3 Vertical

## Towel Dispensers



20500 Small Towel Dispenser



20600 Large Towel Dispenser

Keep your towels organized, dry and safe from spills in our handy dispensers. Take only one towel at a time, or a handful! Easy access when wearing gloves. Made of sturdy 3/16" acrylic.

Item No.	Description	UOM	Size
20500	Towel Dispenser, Small	EA	10.5"W X 3.75"D X 6"H
20600	Towel Dispenser, Large	EA	10.5"W X 4"D X 15"H

We inventory an extensive line of additional parts and accessories not shown here due to space limitations. If you do not see what you want or need, please contact us for more information.

## Microscope Accessories



### Microscopy Organizer Station

Finally, a way to organize all your microscopy accessories in one space-saving, convenient place! Organize slides and cover slips for easy access. Organize optical lens cleaners, tissues, and immersion oil. Features a Kimwipes® dispenser and places to store your stains and accessories. Made of sturdy 3/16" see-thru acrylic measuring 10.5"W x 4.5"D x 12"H.

Item No.	Description	UOM
91250	Microscopy Organizer Station	EA

### Optical Cleaning Kit

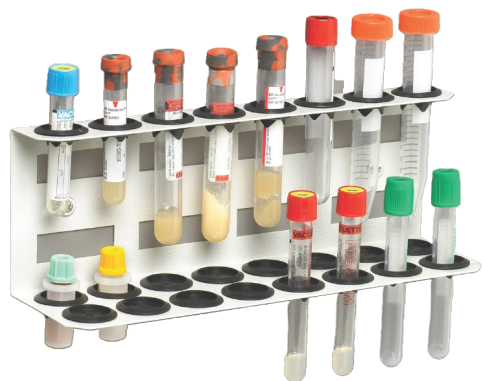
This kit is designed to protect and maintain one of the most valued assets in your laboratory. It has everything you need to take care of your microscope optics.

#### Includes:

- Blow Brush used to remove dust from lens surfaces
- Multi-coated formula Lens Cleaner
- Premium grade Lens Cleaning Tissue
- Micro-fiber Cloth
- Detailed instructions



Item No.	Description
B6-8910	Optical Cleaning Kit



C8600-18



Eyepieces



Objectives

Compound Microscope Accessories	
Item No.	Description
B2-7003	Fluorescent Bulb, 7 Watt
B6-7006	Halogen Bulb, 6 Volt / 20 Watt
B6-7007	Halogen Bulb, 6 Volt / 30 Watt
B6-1401	10x Widefield Eyepiece
B6-1402	10x High-Eyepoint Widefield Eyepiece
B6-8901	Eyepiece Reticule, 0.1mm divisions
B6-8903	Stage Micrometer Slide, 0.1mm divisions
B6-2101	4x DIN Achromat Objective
B6-2102	10x DIN Achromat Objective
B6-2108	20x DIN Achromat Objective
B6-2103	40x DIN Achromat Objective (retractable)
B6-2107	60x DIN Achr. Objective (retractable, dry)
B6-2104	100x DIN Achromat Oil Immersion Object.
B6-2201	4x DIN Semi-Plan Objective
B6-2202	10x DIN Semi-Plan Objective
B6-2203	40x DIN Semi-Plan Objective (retractable)
B6-2204	100x DIN Semi-Plan Oil Immersion Object.
B6-2301	4x DIN Plan Objective
B6-2302	10x DIN Plan Objective
B6-2303	40x DIN Plan Objective (retractable)
B6-2308	50x DIN Plan Oil Immersion Objective
B6-2304	100x DIN Plan Oil Immersion Objective
B6-2422	10x DIN Semi-Plan Phase Objective
B6-2423	40x DIN Semi-Plan Phase Objective (R)
B6-2424	100x DIN Semi-Plan Phase Objective (Oil)
B6-9005	Fuse, 250 Volt, 1.5 Amp
B6-8001	Dust Cover
B6-8910	Optical Cleaning Kit
B6-8905	Immersion Oil, 7 ml, Type A
B6-6010	Blue (Daylight) Filter, 31.5mm

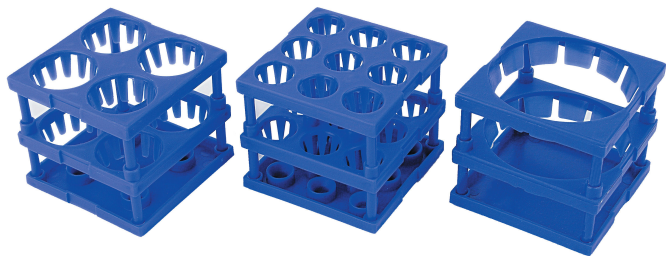
### Tube Holdsters™

Maximize efficiency and streamline your laboratory workflow with the Optional Tube Holdster™ designed for PowerSpin centrifuges. This versatile accessory allows you to keep up to 18 tubes or adapters conveniently at your side, securely mounted on the centrifuge.

- Select 18 or 24 place version
- Holds 2ml - 15ml tubes
- Holds counter-balance and specimen tubes
- Replaces bench-top tube racks
- Wall mount or mount to centrifuge

Item No.	Description
C800-18	Tube Holdster, 18-Place
C8600-18	Tube Holdster, 24-Place

## Tube-CUBES™



Available in three configurations, each cube measures 2-7/8"D x 2-5/8"H x 2-7/8"W.

- 4 place, holds 26 mm to 30 mm tubes / 50 ml tubes
- 9 place, holds 8 mm to 16 mm tubes / 10-15 ml tubes
- Single place, holds 66 mm cups, alcohol dispensers, small flasks, etc.

*Holds tubes securely, even when turned upside down!*

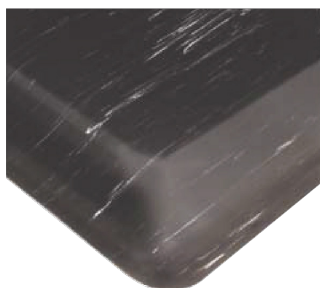


## Biohazard Shield

Help prevent exposure to you and your staff from potentially harmful materials by splash or spill. Constructed of heavy 3/16" acrylic; our shields provide low cost - high value addition to your lab or practice. Use when opening urines, blood samples, or while pipeting and transferring hazardous liquids.

Item No.	Description	Size
11410	Biohazard Shield	11.5"W x 7.5"D x 15"H

## Anti-Fatigue Floor Mats



Tired of sore legs and feet? We have an answer! Try our Anti-Fatigue mats; you will be glad you did!

- Two sizes to fit your space requirements
- Feel better at the end of your shift!
- Comfortable 1/2" thick mats

Item No.	Description	Size
84510	2' x 3' Black Mat	2' x 3'
84515	3' x 5' Black Mat	3' x 5'

## Kimwipes® Dispensers



The versatile large dispenser holds large or extra large Kimwipes® boxes, or 3 small boxes lined up together.

- Small and Large box dispensers available
- Includes mounting hardware
- Made of sturdy 3/16" acrylic

Item No.	Description	Size
20650	Dispenser, Small Box	5.25"W x 3"D x 4.75"H
20655	Dispenser, Large Box	15"W x 5.5"D x 4"H

## Tube Organizer



Organize your blood drawing supplies in a simple, easy to use rack. See-thru acrylic allows for quick visual inventory, lets you know when to restock.

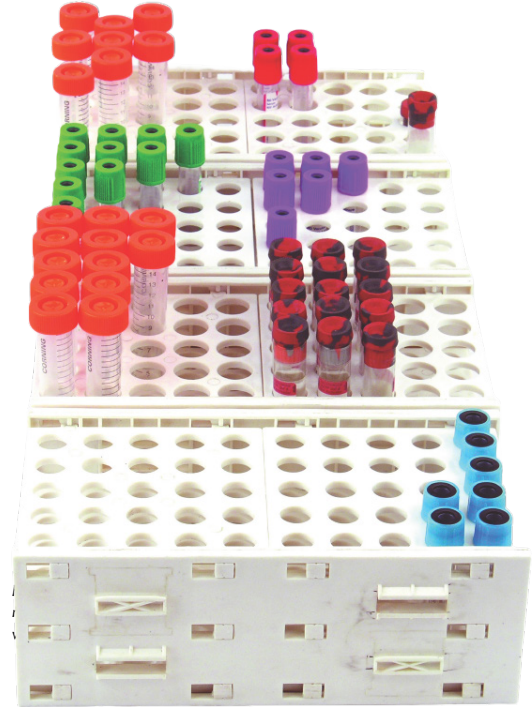
- Nine compartments to organize and store tubes
- Holds all sizes of tubes, up to 210 tubes
- Designed to wall mount or for use on benchtop
- Constructed of durable 3/16" acrylic

Item No.	Description	UOM	Size
52300	Tube Organizer	EA	11.5"W x 5.5"D x 16"H

## T-Racks™ Tube Racks

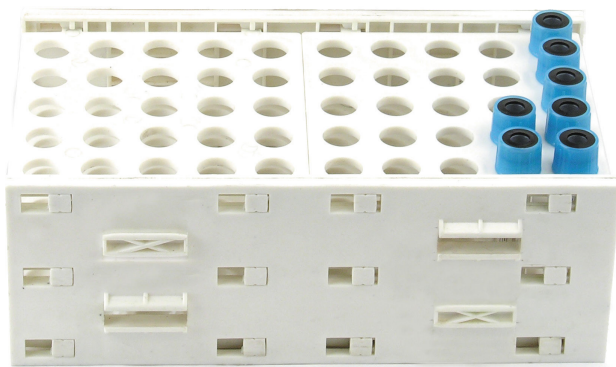


The top shelf of each T-Rack has cross-referencing Alpha – Numeric designations so you can track the exact location of specific tubes in the rack.



Mix and match to meet your needs, or to help with Accessioning.

The only rack you will ever need! Starting with a single 50 place T-Rack, you can attach as many racks together as you have room for! These patented racks quickly and easily attach together with their unique built-in T-Connector, which allows you the flexibility to attach one, two, three, or however many racks you decide together!



### Specifications:

- Each T-Rack holds up to 50 tubes in two 25 hole sections
- The top shelf of each T-Rack has cross-referencing Alpha – Numeric designations so you can track the exact location of specific tubes in the rack
- Attach additional T-Racks together, make a single large rack, as big as you need!
- Made of durable, autoclavable polypropylene
- T-Racks will not break, or become brittle in low temperature refrigerators
- Easy to clean and disinfect
- Dimensions: Each 50 Place T-Rack measures: 8.75" x 3.75" x 5.25"
- Your T-Racks will arrive disassembled and snap them together in seconds

### How do I attach T-Racks together?

It's so easy, even a hospital administrator can do it! T-Rack's T-Connectors have a positive "click-stop", which locks the racks together, so they will not slide apart while being handled, or moved around the bench top, or refrigerator, etc. This click-stop holds them tightly together, yet is very easy to disassemble as well!

To disassemble, simply slide the racks apart and use as single rack, or join together with other T-Racks.

You can attach 10-13 mm racks to 13-16 mm racks! Attach any configuration to fit your needs! T-Racks allow you the flexibility to select how best to use them in your lab.

T-Racks can be used to help with Accessioning and are a great batching aide.

Item No.	Description	UOM
54500	T-Rack 50 Place, 13-16 mm, Expandable	Each
54500-2	T-Rack 50 Place, 13-16 mm, Expandable	Pk/2
54510	T-Rack 50 Place, 10-13 mm, Expandable	Each
54510-2	T-Rack 50 Place, 10-13 mm, Expandable	Pk/2
54520	T-Rack 50 Place, (25 holes of 13-16 mm & 25 of 10-13 mm), Expandable	Each
54520-2	T-Rack 50 Places, (25 holes of 13-16 mm & 25 of 10-13 mm), Expandable	Pk/2



# Spectrophotometers



**S1205 Visible Spectrophotometers**



**Cuvets**

## Need help selecting a Spectrophotometer?

UNICO is proud to offer a full line of Visible and UV/Visible Spectrophotometers. Our applications engineers can help you select the right model based on your applications. We have models ranging from very basic and inexpensive visible educational models, standard lab testing models, to advanced Scanning UV/Vis models for research. We offer a variety of software, accessories and cuvetts to complement the line.

Download a PDF of our spectrophotometer catalog at [www.unicosci.com](http://www.unicosci.com), or call or email with an questions you may have: 800-588-9776, international 732-274-1155, or email at [info@unicosci.com](mailto:info@unicosci.com).



**SQ-4802 Double Beam UV/Vis Spectrophotometers**



**S1100RS Series Visible Spectrophotometers**

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| PortaSpin™     | The 30 Rocker™ |
| PowerSpin™     | Tube-CUBE™     |
| Rock-IT™       | Tube Holdster™ |

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**Contact Us:**

**UNICO**  
**United Products and Instruments, Inc.**  
**182 Ridge Road, Suite E**  
**Dayton, New Jersey 08810**  
**U.S.A.**

**Toll Free phone: 800-588-9776 Direct Dialing: 732-274-1155 Fax: 732-274-1151**  
**E-mail: [info@unicosci.com](mailto:info@unicosci.com) Website: [www.unicosci.com](http://www.unicosci.com)**

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**Espanol Direct Dial: 609-240-5507 E-mail: [ventas@unicosci.com](mailto:ventas@unicosci.com)**