

G500 Series Microscopes



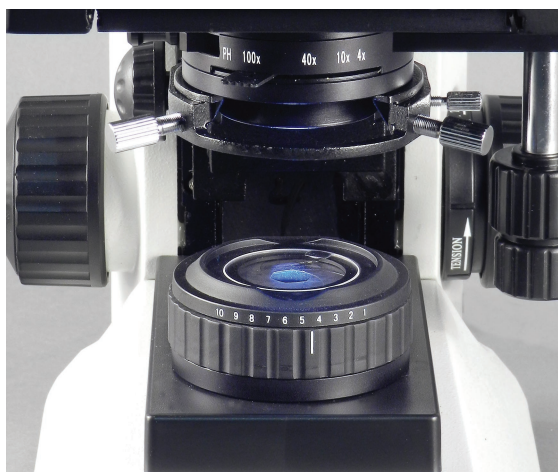
G504T

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

The G500 Series Advanced Microscopes are full-featured, versatile and scalable. Designed for users who applications require them to spend extended time viewing through the microscope. An LED illuminated series with options ranging from standard Brightfield, to Phase Contrast, Polarizing and Epi-Fluorescence.

- **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
- **WARRANTY:** Five Year Limited Warranty, One Year on electrical system; excludes bulbs and fuses

Item No.	Description
G502	Binocular Microscope with Achromat Objectives
G502T	Trinocular Microscope with Achromat Objectives
G503	Binocular Microscope with Semi-Plan Objectives
G503T	Trinocular Microscope with Semi-Plan 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 Koehler 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 Irises at the optimal setting based on the specimen type being viewed insuring consistent viewing parameters.



Digital USB camera with C-Mount camera adapter

	G502	G502T	G503	G503T	G504	G504T
Head	Binocular	Trinocular	Binocular	Trinocular	Binocular	Trinocular
Eyepiece	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF(2)Hi-EP	10X WF Hi-EP	10X WF Hi-EP	10X WF Hi-EP
Objectives	4,10,40,100X Achromat	4,10,40,100X Achromat	4,10,40,100X Semi-Plan	4,10,40,100X Semi-Plan	4,10,40,100X Plan	4,10,40,100X Plan
Condenser	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25	NA 1.25
Diaphragm	Iris	Iris	Iris	Iris	Iris	Iris
Stage	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Illumination	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED	3 Watt LED
Focusing	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial	Coaxial

Advanced Phase Contrast Microscopes

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
- **WARRANTY:** Five Year Limited Warranty, One Year on electrical system; excludes bulbs and fuses

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



Actual Size: 16"H x 6"W x 12"D
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21"L x 19"W x 10"H
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**G502T
with B6-8185**

G502T shown here with 5.6MP digital camera (B6-8185). USB connection to PC and included software (supporting Win XP and Win 7) provide convenient image viewing and capturing option.

Phase Contrast Sliders



G500-8031



G500-8032

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.



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

	G505	G505T
Head	Binocular	Trinocular
Eyepiece	10X WF(2)Hi-EP	10X WF(2)Hi-EP
Objectives	4,10,40,100X Plan Phase 4X Brightfield	4,10,40,100X Plan Phase 4X Brightfield
Condenser	NA 1.25	NA 1.25
Diaphragm	Iris	Iris
Stage	Mechanical	Mechanical
Illumination	3 Watt LED	3 Watt LED
Focusing	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 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 3 Watt LED with rheostat to control intensity. Koehler illumination field diaphragm for superior contrast control. Phase contrast, Epi-Fluorescent 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



G508

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

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.



Trinocular Camera-Ready head shown with G500-8020 C-Mount camera adapter and B6-8185 digital camera. See page 24 for more details about the camera.

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
Head	Binocular	Trinocular
Eyeiece	10X WF(2)Hi-EP	10X WF(2)Hi-EP
Objectives	4, 10, 40, 100X Plan	4, 10, 40, 100X Plan
Condenser	NA 1.25	NA 1.25
Diaphragm	Iris	Iris
Stage	Mechanical	Mechanical
Illumination	LED	LED

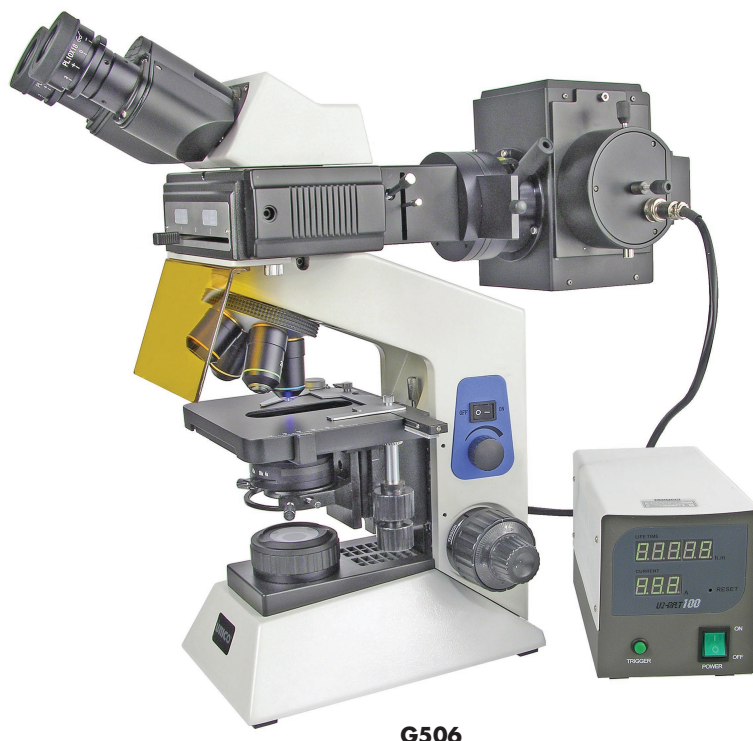
Epi-Fluorescence Microscopes

G500 Epi-Fluorescence Microscopes

G500 Epi-Fluorescence microscopes feature two illumination systems: LED and 100 Watt Mercury bulbs. Available with standard mechanical or heated mechanical stages depending on your application. G505'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.

Epi-Fluorescence with Heated Stage Applications: Research is being conducted with live cells using fluorescence illuminated microscopes. Heated stages are required to keep the temperature at the right setting to help keep the cells alive while being viewed.

- **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: 4x, 10x, 40x and 100x
- **FILTER CUBES:** Four slots: UV3, B3 (Blue) and G3 (Green)
- **FILTER HOLDER:** Four position Filter Holder, 3 Filters supplied
- **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:** 3 Watt LED (bottom) & 100 Watt Mercury bulb (top)
- **UV PANEL:** UV blocking panel above stage
- **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
- **WARRANTY:** Five Year Limited Warranty, One Year on electrical system; excludes bulbs and fuses



G506

Fluorescence Filter Cubes:

Filter Cube	Exciter	Dichroic	Emitter
UV3	365nm	400nm	430nm
B3 (Blue)	475nm	505nm	520nm
G3 (Green)	525nm	560nm	595nm

Item No. Description

G506	Binocular Epi-Fluorescence Microscope with 10x, 20x, 40x & 100x Plan Objectives
G506T	Trinocular Epi-Fluorescence Microscope with 10x, 20x, 40x & 100x Plan Objectives and Digital 5.6 Mega Pixel USB Camera with image capture software for Windows XP or 7
G506HS	Binocular Epi-Fluorescence Microscope with 10x, 20x, 40x & 100x Plan Objectives and Heated Stage system
G506THS	Trinocular Epi-Fluorescence Microscope with 10x, 20x, 40x & 100x Plan Objectives and Heated Stage system

	G506	G506T
Head	Binocular	Trinocular
Eyepiece	10X WF(2)Hi-EP	10X WF(2)Hi-EP
Objectives	4,10,40,100X Plan	4,10,40,100X Plan
Condenser	NA 1.25	NA 1.25
Diaphragm	Iris	Iris
Stage	Mechanical	Mechanical
Illumination	LED	LED



Heated Stage Epi-Fluorescence version is perfect for keeping cells alive during study. We recommend the Trinocular version with Digital Video Camera.