

# MICROSCOPES



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# Brightfield Biological Microscopes



400508

## Olympus CX21

### Brightfield Biological Microscope

The CX21 is an economically priced microscope that achieves a high standard of optical and mechanical quality.

The CX21's newly designed stand has a slim body design, allowing the user to operate the coarse and fine focus comfortably while keeping the hands on the desk.

Features & Benefits:

- Easy to use & dependable
- Highly rigid frame and easy-to-use design offer great reliability and long term durability
- Conveniently placed controls and a slim base make for comfortable viewing and efficient adjustments
- A plano concave mirror or brightfield observation
- An opening in the arm of the frame allows viewing the specimen stage in situations that require the frame to be placed backwards, so the mirror can capture light when emanating from in front of the user
- Halogen Light Source

## Olympus CX31

### Brightfield Biological Microscope

The Olympus CH biological microscopes, which have gained an outstanding worldwide reputation, now give rise to the new CX31 with USI infinity optics. The Universal Infinity System optics are the same well-known and advanced optical system featured in the highest quality Olympus Microscopes. Evolved from Olympus' best selling CH series, the new CX models improve all around performance and offer even greater efficiency.

- Newly-developed infinity corrected Plan C Achromat objectives offer exceptional flatness producing sharp, clear images right up the edge of the field of view (4x, 10x, 40x, 100x oil)
- Anti-fungus treatment helps protect optical parts even in high humidity regions
- Inward-facing, quadruple (CX31), or quintuple (CX41) revolving nosepiece improves access and makes for quick, easy slide changes
- Fixed Abbe condenser N.A. 1.25, centerable and focusable for Köhler illumination
- A 6V/30W halogen bulb provides ample illumination for any observation
- Ergonomically designed frame with low positioned coarse and fine focusing controls, analyzer slot for linear polarized light (CX41 only), and convenient handgrips at the front and back for transportation; integrated field stop
- Built in left or right hand stage with rackless design (CX31 right hand only), low positioned X,Y controls with ergogrips to facilitate operation



400507

PART #	PRODUCT DESCRIPTION	LIST PRICE	ems PRICE
<b>MICROSCOPES</b>			
400508	Olympus CX21 Biological Microscope	\$1,099.00	\$999.00
400507	Olympus CX31 Brightfield Microscope CX21 & CX31 Biological Scopes come with 4x, 10x, 40x, 100x (Brightfield 60x Achromat Objectives Available)	\$1,699.00	\$1,599.00

For a  
**COMPLETE LIST OF  
MICROSCOPE PARTS  
& ACCESSORIES**

please refer to  
**PAGES 70-71**  
of this catalog.

# Phase Contrast Microscopes & Field Kits

400107



## Olympus CX21 Phase Contrast Microscope

The CX21 is an economically priced microscope that achieves a high standard of optical and mechanical quality.

The CX21's newly designed stand has a slim body design, allowing the user to operate the coarse and fine focus comfortably while keeping the hands on the desk.

**Olympus CX21 Phase Contrast Microscope newly developed objectives (exclusive for the CX21), provide sharp, high contrast images.**

**The CX21 comes complete with 4X & 10X brightfield objectives, 40X phase objective, phase contrast insert, Walton-Beckett graticule, green filter, 1.25 ABBE condenser, and 10x20 wide angle eye pieces.**

**Features & Benefits:**

- Easy to use & dependable
- Highly rigid frame and easy-to-use design offer great reliability and long term durability
- Conveniently placed controls and a slim base make for comfortable viewing and efficient adjustments
- A plano concave mirror or brightfield observation
- An opening in the arm of the frame allows viewing the specimen stage in situations that require the frame to be placed backwards, so the mirror can capture light when emanating from in front of the user
- Halogen Light Source

## Olympus CX31 Phase Contrast Microscope

400108



**Olympus CX31 Phase Contrast Microscope newly developed objectives (exclusive for the CX31), provide sharp, high contrast images.**

**The CX31 comes complete with 4X & 10X brightfield objectives, 40X phase objective, phase contrast insert, Walton-Beckett graticule, green filter, 1.25 ABBE condenser, and 10x20 wide angle eye pieces.**

- Anti-fungus treatment helps protect optical parts even in high humidity regions
- Inward-facing, quadruple (CX31), or quintuple (CX41) revolving nosepiece improves access and makes for quick, easy slide changes
- Fixed Abbe condenser N.A. 1.25, centerable and focusable for Köhler illumination
- A 6V/30W halogen bulb provides ample illumination for any observation
- Ergonomically designed frame with low positioned coarse and fine focusing controls, analyzer slot for linear polarized light (CX41 only), and convenient handgrips at the front and back for transportation; integrated field stop
- Built in left or right hand stage with rackless design (CX31 right hand only), low positioned X,Y controls with ergogrips to facilitate operation



Field Kit

**Field Kit Includes:**

400107	CX21 PCM Scope	400159	22 x 22 Coverslips 1oz.
or		600139	1cc Syringe
400108	CX31 PCM Scope	600141	3cc Syringe
800101	Quickfix Acetone Vaporizer	600125	Acetone, 30ml
400112	Microscope Shipping Case	600129	Triacetin, 30ml
400131	Centering Telescope	600137	Clear Nail Polish
400133	Stage Micrometer	400137	HSE/NPL Phase Test Slide
400176	Lens Paper	400123	(CX21) Extra 20 Watt Bulb
600113	Scalpel Handle	400357	(CX31) Extra 30 Watt Bulb
600115	#10 Scalpel Blades 10/pk	400129	Green Filter
600119	Fine Tip Forceps - Straight	400139	19mm Walton-Beckett
600143	Sharpie Marker		Graticule (CX21)
600109	Three Station Counter	400138	20.4mm Walton-Beckett
400141	Plain Slides 1 gross		Graticule & Retaining Ring (CX31)

**ems EXCLUSIVE!**

PART #	PRODUCT DESCRIPTION	LIST PRICE	ems PRICE
<b>MICROSCOPES &amp; FIELD KITS</b>			
400101	Olympus CX21 Phase Contrast Field Kit "Halogen"	\$3,150.00	\$2,950.00
400102	Olympus CX31 Phase Contrast Field Kit "Halogen"	\$3,300.00	\$3,150.00
400107	Olympus CX21 Phase Contrast Microscope "Halogen" (comes w/ 4X BF, 10X BF & 40X Phase)	\$1,699.00	\$1,599.00
400108	Olympus CX31 Phase Contrast Microscope "Halogen" (comes w/ 4X BF, 10X BF & 40X Phase)	\$2,150.00	\$1,899.00
Phase Contrast Microscopes come with 4X & 10X brightfield objectives, 40X phase objective, Walton-Beckett Graticule, Green Filter, Extra Bulb, Dust Cover, & Lens Paper (H/D Pelican Case is included with Field Kits)			

# Microscope Slides, Coverslips and Supplies

1 Gross = 144 Microscope Slides, 1 Box = 72 Microscope Slides, 2 Boxes (of 72 ea) = 1 Gross (144 ea)



400160



400152



100 Capacity Economy  
400172

PART #	PRODUCT DESCRIPTION	LIST PRICE	ems PRICE
<b>MICROSCOPE SLIDES</b>			
400140	1" x 3" Plain Microscope Slides, 1.2mm, 1 gr. (2 Boxes, 144 ea.) Erie Top Brand Slides Pre-Cleaned	\$16.50	\$14.50
400141	1" x 3" Plain Microscope Slides, 1.2mm, 1 gr. (2 Boxes, 144 ea.) Premiere 9100 series (ENHANCED)	\$9.50	\$7.95
400142	1" x 3" Plain Microscope Slides, 1 gr. (2 Boxes, 144 ea.) Standard Abco Brand, No Paper Between Slides	\$15.95	\$13.95
400143	1" x 3" Plain Microscope Slides, 1.2mm, 5 gr. (10 Boxes, 720 ea.) Premiere 9100 series (ENHANCED)	\$44.95	\$39.95
400145	1" x 3" Plain Microscope Slides, 1.2mm, 10 gr. (20 Boxes, 1,440 ea.) Premiere 9100 series (ENHANCED)	\$74.95	\$59.00
400147	1" x 3" Plain Microscope Slides, 1.2mm, 30 gr. (60 Boxes, 4,320 ea.) Premiere 9100 series (ENHANCED)	\$169.00	\$159.00
400148	1" x 3" Plain Microscope Slides, 1.2mm, 25 gr. (Grafcu Paper Between Slides) (50 Boxes, 3600 ea.)	\$149.00	\$139.00
400149	1" x 3" Frosted Slides, 1gr. (2 Boxes, 144 ea.) Premiere 9100 series (ENHANCED)	\$9.95	\$8.95
400150	1" x 3" Frosted Slides, 1 gr. Erie Top Brand Slides (2 Boxes, 144 ea.) Pre-Cleaned	\$17.50	\$16.50
400151	1" x 3" Frosted Slides, 5 gr. (10 Boxes, 720 ea.) Premiere 9100 series (ENHANCED)	\$49.95	\$39.95
400152	1" x 3" Frosted Slides, 1 gr. Standard Abco Brand, No Paper Between Slides, Frosted on both ends (2 Boxes, 144 ea.)	\$15.50	\$13.95
400153	1" x 3" Frosted Slides, 10 gr. (20 Boxes, 1,440 ea.) Premiere 9100 series (ENHANCED)	\$85.00	\$66.50
400155	1" x 3" Frosted Slides, 30 gr. (60 Boxes, 4,320 ea.) Premiere 9100 series (ENHANCED)	\$229.00	\$195.00
<b>COVERSLIPS</b>			
400157	18 x 18mm Coverslips, #1.5, 1 oz. (Chase Brand) (Approx. 100 ea.)	\$5.00	\$3.69
400158	18 x 18mm Coverslips, #1.5, 10 oz. (Chase Brand) (Approx. 1,000 ea.)	\$36.00	\$32.25
400159	22 x 22mm Coverslips, #1.5, 1 oz. (Chase Brand) (Approx. 100 ea.)	\$5.00	\$3.69
400160	22 x 22mm Coverslips, #1.5, 10 oz. (Chase Brand) (Approx. 1,000 ea.)	\$40.00	\$32.25
400161	22 x 22mm Coverslips, #1.5, 1 oz. (Esco Brand "Premium") (Approx. 100 ea.)	\$5.00	\$3.95
400163	22 x 22mm Coverslips, #1.5, 10 oz. (Esco Brand "Premium") (Approx. 1,000 ea.)	\$45.00	\$39.95
400165	22 x 30mm Coverslips, #1.5, 1 oz. (Esco Brand "Premium") (Approx. 100 ea.)	\$5.00	\$3.95
400167	22 x 30mm Coverslips, #1.5, 10 oz. (Esco Brand "Premium") (Approx. 1,000 ea.)	\$45.00	\$39.95
<b>MICROSCOPE SUPPLIES</b>			
400168	2 Capacity Slide Mailers / ea. (holds 2 slides - cardboard)	\$0.89	\$0.79
400168-P	2-Capacity Mailers / each (Holds 2 Slides - Plastic)	\$0.89	\$0.79
400169	25 Slide Capacity Slide Box	\$4.75	\$3.95
400170	5 Capacity Slide Holders	\$0.99	\$0.69
400171	100 Slide Capacity Slide Box (Deluxe w/ foam bottom & metal front hinge)	\$7.95	\$7.50
400172	100 Slide Capacity Slide Box (Economy) Unlined	\$5.95	\$5.50
400173	Slide Holder, 20 Slide Capacity	\$6.95	\$5.95
400174	Immersion Oil Type A ¼ ounce	\$2.95	\$2.50
400175	Immersion Oil Type A 1 ounce	\$5.95	\$4.95
400176	Olympus Brand Lens Paper 50 sheets/pack	\$2.00	\$2.00
400177	Canned Air	\$8.95	\$7.95
600149	Lactic Acid 100ml (85%)	\$19.95	\$19.95
600150	Lactic Acid 500ml (85%)	\$39.95	\$39.95
600151	15ml (1/2oz) Drop Dispensing Bottle	\$1.99	\$1.99

call for  
quantity  
pricing  
800.293.3003



# Microscope Parts & Accessories



PART #	PRODUCT DESCRIPTION	LIST PRICE	ems PRICE
<b>MICROSCOPE PARTS &amp; ACCESSORIES</b>			
400110	Olympus BH-2 Lamp Housing Only	\$37.50	<b>\$37.50</b>
400112	Pelican CX21 / CX31 Field Kit Carrying Case w/ Wheels	\$299.00	<b>\$275.00</b>
400115	Olympus Cordura Case	\$119.00	<b>\$109.00</b>
400116	Olympus Dust Plug for Nose Piece	\$2.00	<b>\$2.00</b>
400117	Olympus Microscope Objective, 10X NEA Objective	\$49.00	<b>\$49.00</b>
400118	Olympus 40X Phase Objective (use w/ CX21, CX31)	\$399.00	<b>\$399.00</b>
400121	Halogen Bulb, 6 volt 10 watt	\$9.95	<b>\$8.95</b>
400122	Stereoscope Bulb EKE 21 Volt, 150 Watt	\$25.00	<b>\$25.00</b>
400123	Halogen Bulb, 6 volt, 20 watt	\$9.25	<b>\$8.75</b>
400124	Olympus 1.5A CHA-BDS Fuse (Located in Bottom of Base - Normal Size Fuse)	\$2.95	<b>\$2.75</b>
400125	Tungsten Bulb, 120 volt, 30 watt	\$7.50	<b>\$6.50</b>
400126	Olympus CHT 800mA 250V Fuse (Located Where Power Cord Plugs In - Very Small)	\$2.95	<b>\$2.75</b>
400127	Olympus Power Cord	\$15.00	<b>\$15.00</b>
400128	Olympus Microscope Cover	\$10.00	<b>\$10.00</b>
400129	Standard Green Filter 45mm	\$25.00	<b>\$23.75</b>
400130	Standard Blue Filter 45mm	\$25.00	<b>\$24.00</b>
400131	Centering Telescope	\$209.00	<b>\$189.00</b>
400133	Stage Micrometer	\$89.00	<b>\$79.00</b>
400134	Olympus Phase Insert	\$89.00	<b>\$79.00</b>
400135	Phase Shift Test Slide HSE/NPL (5 band / 6 partial)	\$699.00	<b>\$679.00</b>
400137	Phase Shift Test Slide HSE/NPL (4 band / 5 partial)	\$479.00	<b>\$469.00</b>
400138	Walton-Beckett Graticule & Retaining Ring, 20.4mm, (use w/ CX31 Microscope)	\$169.00	<b>\$159.00</b>
400139	Walton-Beckett G-22 Graticule, 19mm	\$159.00	<b>\$139.00</b>
400212	60X Achromat Objective (use w/ Olympus CX31, CX21 & CH Series)	\$438.00	<b>\$399.00</b>
400223	Olympus CH & CX series eyepiece (sold by each)	\$98.00	<b>\$98.00</b>
400224	Olympus Rubber Eyeshield for 2-UO52 Eyepiece (Sold By Each)	\$6.50	<b>\$5.50</b>
400357	Halogen Bulb, 6 Volt, 30 Watt (Fits CX31 Microscope)	\$9.50	<b>\$9.25</b>
400502	Olympus CX21 4X, 10X, 40X Biological	\$949.00	<b>\$895.00</b>
400503	Olympus CX31 4X, 10X, 40X Biological	\$1,449.00	<b>\$1,395.00</b>

## Quality products at competitive prices.

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