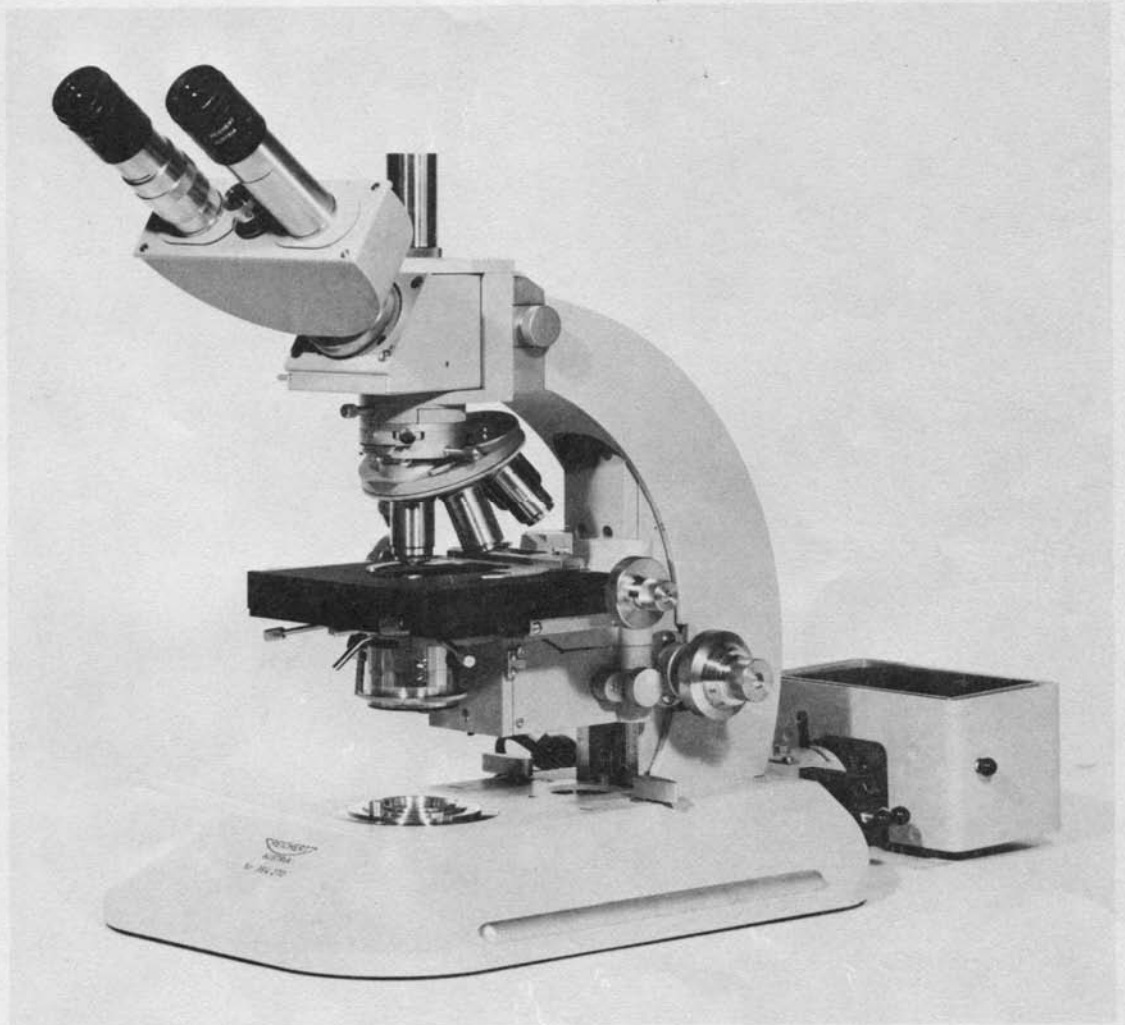

PRICE LIST

Effective December 1, 1976

KENNETH A. DAWSON CO., INC.
TEL. 484-7900
106 CONCORD AVE. BOX 106
BELMONT, MASS. 02178

ZETOPAN
Research Microscope



Zetopan 127 US-A

AO
American
Optical

Reichert
Products

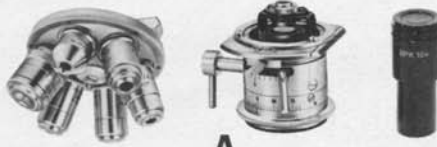
SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N.Y. 14215

TRANSMITTED LIGHT ZETOPAN FOR BRIGHT-FIELD / PHASE / ANOPTRAL PHASE

BASIC STAND

HYPHEN

OPTICS



A

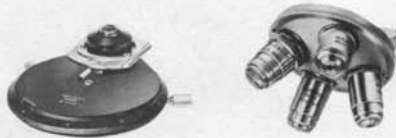
PLAN ACHROMATIC OBJECTIVES

- 9 03 12 06 Sextuple nosepiece, on slider
- 9 99 00 01 Two-lens condenser, N.A. = 0.95, top element swing-out and interchangeable on slider.
- Objectives:
- 9 22 32 01 Plan 4/0.10 160/-
- 9 22 34 01 Plan 10/0.25 160/-
- 9 22 37 01 Plan 40/0.65 160/0.17 fed
- 9 22 38 01 Plan 63/0.80 160/0.17 fed
- 9 22 40 02 Plan Oil Iris 100/1.25 160/0.17 fed
- 9 25 35 51 Wide field, high eyepoint eyepieces: BPK 10X, pair

B

SEMPLAN OBJECTIVES

- 9 03 12 05 Quadruple nosepiece, on slider
- 9 99 00 14 Two-lens condenser, N.A. = 0.90, with swing-out top element, aperture-iris diaphragm, filter holder, on slider
- Objectives:
- 9 22 32 01 Plan 4/0.10 160/-
- 9 22 04 01 SPI 10/0.25 160/-
- 9 22 07 01 SPI 40/0.65 160/0.17 fed
- 9 22 20 02 SPI Oil Iris 100/1.30 160/0.17 fed
- 9 25 35 51 Wide field, high eyepoint eyepieces: BPK 10X, pair



PH

PHASE CONTRAST

- 9 03 12 05 Quadruple nosepiece, on slider
- 9 99 00 05 Contrast condenser, N.A. = 0.98, turret with 6 centerable annuli (1-6), 3 empty apertures, aperture-iris diaphragm, on slider.
- 9 25 50 01 Auxiliary telescope
- Objectives:
- 9 22 32 01 Plan 4/0.10 160/-
- 9 22 04 06 SPI Ph 10/0.25 160/- (1)
- 9 22 07 06 SPI Ph 40/0.65 160/0.17 fed (3)
- 9 22 20 06 SPI Oil Ph 100/1.30 160/0.17 fed (5)
- 9 25 35 51 Wide field, high eyepoint eyepieces: BPK 10X, pair

PHA

ANOPTRAL PHASE CONTRAST

- 9 03 12 05 Quadruple nosepiece, on slider
- 9 99 00 05 Contrast condenser, N.A. = 0.98, turret with 6 centerable annuli (1-6), 3 empty apertures, aperture-iris diaphragm, on slider.
- 9 25 50 01 Auxiliary telescope
- Objectives:
- 9 22 32 01 Plan 4/0.10 160/-
- 9 22 04 05 SPI PhA 10/0.25 160/- (1)
- 9 22 07 05 SPI PhA 40/0.65 160/0.17 fed (4)
- 9 22 20 05 SPI Oil PhA 100/1.30 160/0.17 fed (5)
- 9 25 35 51 Wide field, high eyepoint eyepieces: BPK 10X, pair



ZETOPAN 127 US

Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photo tube, condenser carrier, specimen holder, square mechanical stage No. 27, "Lux US" lamp housing, 2 filter slides, lamp holder, 100W., low-voltage halogen lamp, regulating transformer.



Zetopan 127 US-A

| Model | Catalog No. | Price |
|------------------|-------------|-----------|
| Zetopan 127 US-A | 9 92 00 64 | \$8375.00 |
| Zetopan 127 US-B | 9 92 00 66 | 6967.00 |



Zetopan 127 US-PH

| Model | Catalog No. | Price |
|--------------------|-------------|-----------|
| Zetopan 127 US-PH | 9 92 00 61 | \$7744.00 |
| Zetopan 127 US-PHA | 9 92 00 62 | 7744.00 |

TRANSMITTED LIGHT ZETOPAN FOR INTERFERENCE CONTRAST

| BASIC STAND | HYPHEN | OPTICS | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|---|------------|--------|--------|-------|--|------------|------|---------|-------|-----|------------|------|---------|----------|--------|------------|------|---------|----------|--------|------------|---------------|----------|----------|--------|
|  | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZETOPAN 127 US | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photo tube, condenser carrier, specimen holder, square mechanical stage No. 27, "Lux US" lamp housing, 2 filter slides, lamp holder, 100W., low-voltage halogen lamp, regulating transformer.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p style="text-align: center;">IC</p> <p>9 03 12 10 Sextuple nosepiece for I.C., on slider 9 99 00 08 Interference contrast condenser, N.A. = 0.70, turret with 4 built-in quartz double prisms, 4 empty apertures, centering device, aperture-iris diaphragm, on slider.</p> <p>9 46 31 01 Quartz double prism, in slider 9 17 90 01 Transmitted light filter polarizer, rotatable through 360° 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier.</p> <p>Objectives:</p> <table style="margin-left: 20px;"> <tr><td>9 22 32 01</td><td>Plan</td><td>4/0.10</td><td>160/-</td><td></td></tr> <tr><td>9 22 34 51</td><td>Plan</td><td>10/0.25</td><td>160/-</td><td>IK*</td></tr> <tr><td>9 22 37 51</td><td>Plan</td><td>40/0.65</td><td>160/0.17</td><td>fed IK</td></tr> <tr><td>9 22 38 51</td><td>Plan</td><td>63/0.80</td><td>160/0.17</td><td>fed IK</td></tr> <tr><td>9 22 40 52</td><td>Plan Oil Iris</td><td>100/1.25</td><td>160/0.17</td><td>fed IK</td></tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK 10X, pair</p> | 9 22 32 01 | Plan | 4/0.10 | 160/- | | 9 22 34 51 | Plan | 10/0.25 | 160/- | IK* | 9 22 37 51 | Plan | 40/0.65 | 160/0.17 | fed IK | 9 22 38 51 | Plan | 63/0.80 | 160/0.17 | fed IK | 9 22 40 52 | Plan Oil Iris | 100/1.25 | 160/0.17 | fed IK |
| 9 22 32 01 | Plan | 4/0.10 | 160/- | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 34 51 | Plan | 10/0.25 | 160/- | IK* | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 37 51 | Plan | 40/0.65 | 160/0.17 | fed IK | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 38 51 | Plan | 63/0.80 | 160/0.17 | fed IK | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 40 52 | Plan Oil Iris | 100/1.25 | 160/0.17 | fed IK | | | | | | | | | | | | | | | | | | | | | | | |
| <p>*IK denotes strain free objectives especially selected for Interference Contrast.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Zetopan 127 US-IC

| Model | Catalog No. | Price |
|-------------------|-------------|-------------|
| Zetopan 127 US-IC | 9 92 00 69 | \$11,110.00 |

TRANSMITTED LIGHT ZETOPAN FOR POLARIZATION

| BASIC STAND | HYPHEN | OPTICS | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|--|------------|--------|--------|-------|-----|------------|-----|---------|-------|----|------------|-----|---------|----------|--------|------------|-----|---------|----------|--------|------------|--------------|----------|----------|--------|
|  | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZETOPAN 130 US | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photographic tube, condenser carrier, round rotary stage No. 30, attachable mechanical stage, "Lux US" lamp housing, 2 filter slides, lamp holder, 100W., low-voltage halogen lamp, regulating transformer.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p style="text-align: center;">T POL</p> <p>9 03 12 06 Sextuple nosepiece, on slider 9 99 00 02 Two-diaphragm condenser, N.A. = 0.95 np,* swing-out and interchangeable top element, on slider</p> <p>9 17 90 01 Transmitted light filter polarizer, rotatable through 360° 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier 9 02 80 01 Compensator, gypsum plate red 1st order</p> <p>Objectives:</p> <table style="margin-left: 20px;"> <tr><td>9 22 32 51</td><td>Plan</td><td>4/0.10</td><td>160/-</td><td>np*</td></tr> <tr><td>9 22 04 51</td><td>SPI</td><td>10/0.25</td><td>160/-</td><td>np</td></tr> <tr><td>9 22 17 53</td><td>Pol</td><td>40/0.90</td><td>160/0.17</td><td>fed np</td></tr> <tr><td>9 22 08 51</td><td>SPI</td><td>63/0.80</td><td>160/0.17</td><td>fed np</td></tr> <tr><td>9 22 20 52</td><td>SPI Oil Iris</td><td>100/1.30</td><td>160/0.17</td><td>fed np</td></tr> </table> <p>9 19 77 03 Inclined, monocular polarizing tube P, swing-in and axially displaceable Bertrand lens, iris diaphragm</p> <p>9 18 26 03 Clamping bridge 9 25 04 03 PK 8X+ cross line eyepiece 9 25 04 01 PK 8X eyepiece</p> | 9 22 32 51 | Plan | 4/0.10 | 160/- | np* | 9 22 04 51 | SPI | 10/0.25 | 160/- | np | 9 22 17 53 | Pol | 40/0.90 | 160/0.17 | fed np | 9 22 08 51 | SPI | 63/0.80 | 160/0.17 | fed np | 9 22 20 52 | SPI Oil Iris | 100/1.30 | 160/0.17 | fed np |
| 9 22 32 51 | Plan | 4/0.10 | 160/- | np* | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 04 51 | SPI | 10/0.25 | 160/- | np | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 17 53 | Pol | 40/0.90 | 160/0.17 | fed np | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 08 51 | SPI | 63/0.80 | 160/0.17 | fed np | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 20 52 | SPI Oil Iris | 100/1.30 | 160/0.17 | fed np | | | | | | | | | | | | | | | | | | | | | | | |
| <p>*np denotes strain-free (non polarizing) optics</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Zetopan 130 US-T POL

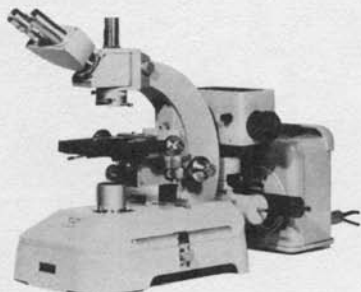
| Model | Catalog No. | Price |
|----------------------|-------------|-----------|
| Zetopan 130 US-T POL | 9 92 99 81 | \$9347.00 |

TRANSMITTED LIGHT ZETOPAN FOR FLUORESCENCE

BASIC STAND

HYPHEN

OPTICS



ZETOPAN 127 CH

Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photo tube, condenser carrier, specimen holder, square mechanical stage No. 27. "Binolux 3" dual lamp housing, with HBO200 lamp housing, filter slide with green filter, 3 neutral filters (1NG3, 2NG3, 2.5NG9). Filter slide with UV heat absorbing filter (2KG2 + 5GG385) and 3 exciter filters (2X3BG12, 1.5UG1, 3UG1 + 2.5BG38), HBO200 burner, spacer, power supply. "Lux US" lamp housing with filter slide, 100W low voltage lamp, lamp holder, regulating transformer. Microscope sub-base, light shield tube.

TF

TRANSMITTED-CONVENTIONAL BRIGHT-FIELD MICROSCOPY AND DARK-FIELD FLUORESCENCE



9 03 12 05 **Quadruple nosepiece**, on slider

9 48 12 01 **Barrier filter slide**, with 3 barrier filters: 1GG9, 3KV418, 1GG9 + 1.5OG530

9 48 02 23 **Hinged screen**

9 99 00 14 **Two-lens condenser**, N.A. = 0.90, with swing-out top element, aperture-iris diaphragm, filter holder, condenser slide

9 99 00 18 **Wide-field immersion dark-field condenser**, N.A. = 1.18/1.42/D, toric lens, condenser sleeve, 2 DF object slides, condenser slide
Objectives:

9 22 25 01 Fluor 16/0.50 160/0.17 fed

9 22 17 02 Iris 40/0.90 160/0.17 fed

9 22 09 08 Glyc Iris 60/0.95 160/- fed

9 22 20 08 SPI Glyc Iris 100/1.25 160/0.17 fed

9 25 03 51 **PK6.3X eyepieces**, pair

9 25 35 51 **BPK10X wide field, high eyepoint eyepieces**, pair



TIF

INCIDENT AND TRANSMITTED LIGHT FLUORESCENCE

9 44 07 02 **Incident light fluorescence illuminator**, on slide (tube factor $q = 1.6X$), illuminator housing, mirror slide with 4 dichroic interference beam splitters and 4 barrier filters, deviating mirror, housing accepting an interchangeable filter turret, hinged screen, nosepiece 6X

9 46 40 03 **Distance piece**

9 99 00 18 **Wide-field immersion dark-field condenser**, N.A. = 1.18/1.42/D, with toric lens, condenser sleeve, 2 DF object slides, on slider
Objectives:

9 22 25 01 Fluor 16/0.50 160/0.17 fed

9 22 17 02 Iris 40/0.90 160/0.17 fed

9 22 09 08 Glyc Iris 60/0.95 160/- fed

9 22 20 08 SPI Glyc Iris 100/1.25 160/0.17 fed

9 25 03 51 **PK6.3X Eyepieces**, pair

9 25 35 51 **BPK10X wide field, high eyepoint eyepieces**, pair

HYPHEN

HYPHEN

A

FILTER SET, for Immunofluorescence

- 9 91 00 83 **Filter turret**, green exciter filter 56 (546nm.), red barrier filter 60 (2.5BG38), blue exciter filter 49 (3BG12 + 3KV418) and cover disk 0
- 9 46 41 03 **Blue exciter filter FITC-3**, in slip-on mount
- 9 02 44 67 **Red subduing filter**
- 9 46 41 05 **Green exciter filter (546nm)**, in slip-on mount

B

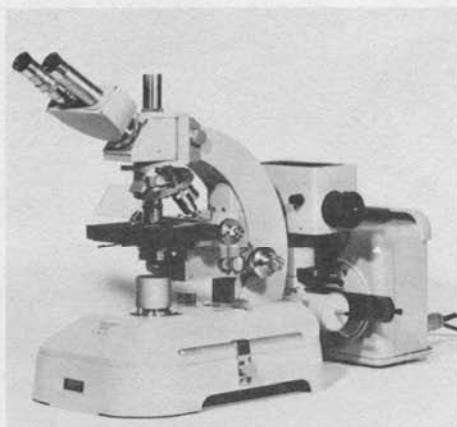
FILTER SET, for Aromatic Amines

- 9 91 00 85 **Filter turret**, UV exciter filter 40 (2UG1), red barrier filter 60 (2.5BG38), violet exciter filter 45 (405nm) and cover disk 0
- 9 46 41 04 **Violet exciter filter (405nm)**, in slip-on mount

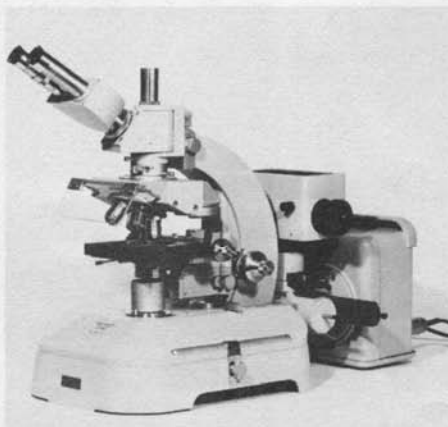
C

FILTER SET, Conventional Fluorescence

- 9 91 00 87 **Filter turret**, blue exciter filter 49 (3BG12), red barrier filter 60 (2.5BG38), UV exciter filter 40 (2UG1), and cover disk 0
- 9 02 44 63 **Blue exciter filter**



Zetopan 127CH-TF


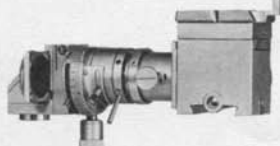





Zetopan 127CH-TIF-C

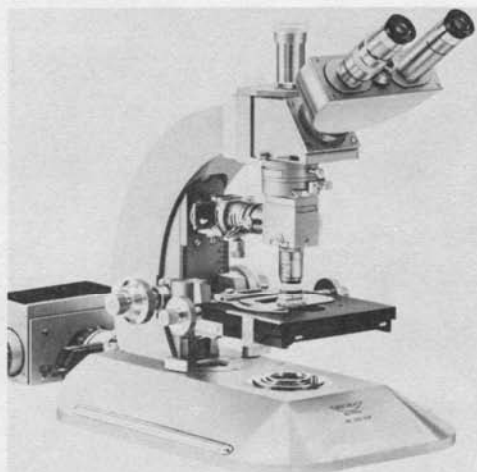
| Model | Catalog No. | Price |
|------------------|-------------|-------------|
| Zetopan 127CH-TF | 9 92 99 40 | \$10,987.00 |

| | | |
|---------------------|------------|-----------|
| Zetopan 127CH-TIF-A | 9 92 99 76 | 14,041.00 |
| Zetopan 127CH-TIF-B | 9 92 99 77 | 13,679.00 |
| Zetopan 127CH-TIF-C | 9 92 99 78 | 13,301.00 |

INCIDENT LIGHT ZETOPAN - BRIGHT-FIELD / DARK-FIELD / INTERFERENCE CONTRAST

| BASIC STAND | HYPHEN OPAQUE ILLUMINATOR | HYPHEN OPTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|------------------------|---------------------|------------|-----------------------|------------|--------------------|------------|------------------------|------------|-------------------|--|--|------------|---------------------|------------|-----------------------|------------|------------------------|------------|------------------------|------------|-----------------------|--|--|------------|---------------------|--|--|------------|--------------------|----|--|------------|-------------------|----|--|------------|-----------------------|----|--|------------|------------------------|----|--|
|  <p>ZETOPAN 227 US</p> <p>Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photo tube, incident light cover plate, distance piece, square mechanical stage No. 27, "Lux US" lamp housing, 2 filter slides, lamp holder, 100W, low-voltage halogen lamp, regulating transformer.</p> |  <p style="text-align: center;">U</p> <p>9 90 00 08 Universal Opaque Illuminator on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark-field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture.</p> |  <p>BF BRIGHT-FIELD</p> <p>Objectives on slide:</p> <table style="width: 100%;"> <tr> <td>9 22 82 01</td> <td>Plan 2.8/0.08 190/-</td> <td>9 22 57 01</td> <td>SPI 28/0.55 190/0 fed</td> </tr> <tr> <td>9 22 54 01</td> <td>SPI 5.5/0.15 190/-</td> <td>9 22 89 01</td> <td>Plan 56/0.90 190/0 fed</td> </tr> <tr> <td>9 22 55 01</td> <td>SPI 11/0.25 190/-</td> <td></td> <td></td> </tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK10X, pair</p> <p>EPI DARK-FIELD/BRIGHT-FIELD</p> <p>Objectives on slide:</p> <table style="width: 100%;"> <tr> <td>9 22 82 01</td> <td>Plan 2.8/0.08 190/-</td> <td>9 22 57 02</td> <td>SPI Epi 28/0.55 190/0</td> </tr> <tr> <td>9 22 54 02</td> <td>SPI Epi 5.5/0.15 190/0</td> <td>9 22 89 02</td> <td>Plan Epi 56/0.90 190/0</td> </tr> <tr> <td>9 22 55 02</td> <td>SPI Epi 11/0.25 190/0</td> <td></td> <td></td> </tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK10X, pair</p> <p>IK INTERFERENCE CONTRAST/ BRIGHT-FIELD</p>  <p>9 03 34 21 Incident-light filter polarizer 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier 9 46 09 03 Interference contrast equipment, on slide, adjustable quartz double prism, rotary knob for adjustment to the objective, lever for adjustment to bright, dark and color contrasts (tube factor $q = 1.25X$)</p> <p>Objectives on slide:</p> <table style="width: 100%;"> <tr> <td>9 22 82 01</td> <td>Plan 2.8/0.08 190/-</td> <td></td> <td></td> </tr> <tr> <td>9 22 54 51</td> <td>SPI 5.5/0.15 190/-</td> <td>np</td> <td></td> </tr> <tr> <td>9 22 55 51</td> <td>SPI 11/0.25 190/-</td> <td>np</td> <td></td> </tr> <tr> <td>9 22 57 51</td> <td>SPI 28/0.55 190/0 fed</td> <td>np</td> <td></td> </tr> <tr> <td>9 22 89 51</td> <td>Plan 56/0.90 190/0 fed</td> <td>np</td> <td></td> </tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK10X, pair</p> | 9 22 82 01 | Plan 2.8/0.08 190/- | 9 22 57 01 | SPI 28/0.55 190/0 fed | 9 22 54 01 | SPI 5.5/0.15 190/- | 9 22 89 01 | Plan 56/0.90 190/0 fed | 9 22 55 01 | SPI 11/0.25 190/- | | | 9 22 82 01 | Plan 2.8/0.08 190/- | 9 22 57 02 | SPI Epi 28/0.55 190/0 | 9 22 54 02 | SPI Epi 5.5/0.15 190/0 | 9 22 89 02 | Plan Epi 56/0.90 190/0 | 9 22 55 02 | SPI Epi 11/0.25 190/0 | | | 9 22 82 01 | Plan 2.8/0.08 190/- | | | 9 22 54 51 | SPI 5.5/0.15 190/- | np | | 9 22 55 51 | SPI 11/0.25 190/- | np | | 9 22 57 51 | SPI 28/0.55 190/0 fed | np | | 9 22 89 51 | Plan 56/0.90 190/0 fed | np | |
| 9 22 82 01 | Plan 2.8/0.08 190/- | 9 22 57 01 | SPI 28/0.55 190/0 fed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 54 01 | SPI 5.5/0.15 190/- | 9 22 89 01 | Plan 56/0.90 190/0 fed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 55 01 | SPI 11/0.25 190/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 82 01 | Plan 2.8/0.08 190/- | 9 22 57 02 | SPI Epi 28/0.55 190/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 54 02 | SPI Epi 5.5/0.15 190/0 | 9 22 89 02 | Plan Epi 56/0.90 190/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 55 02 | SPI Epi 11/0.25 190/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 82 01 | Plan 2.8/0.08 190/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 54 51 | SPI 5.5/0.15 190/- | np | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 55 51 | SPI 11/0.25 190/- | np | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 57 51 | SPI 28/0.55 190/0 fed | np | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 89 51 | Plan 56/0.90 190/0 fed | np | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| HYPHEN OPAQUE ILLUMINATOR WITH REVOLVING NOSEPIECE | HYPHEN OPTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------|---------------------|--|--|------------|--------------------|--|--|------------|---------------------|--|--|------------|-----------------------|--|--|------------|------------------------|--|--|------------|---------------------|--|--|------------|------------------------|--|--|------------|-------------------------|--|--|------------|-----------------------|--|--|------------|------------------------|--|--|
|  <p style="text-align: center;">SN</p> <p>9 44 07 05 Opaque Illuminator with built-in sextuple nosepiece, on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark-field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture. NOTE: This illuminator is not suitable for Interference Contrast or Nomarski Interferometer.</p> | <p>BFR BRIGHT-FIELD</p> <p>Objectives:</p> <table style="width: 100%;"> <tr> <td>9 22 82 05</td> <td>Plan 3.2/0.08 210/-</td> <td></td> <td></td> </tr> <tr> <td>9 22 54 05</td> <td>SPI 6.3/0.15 210/-</td> <td></td> <td></td> </tr> <tr> <td>9 22 55 05</td> <td>SPI 12.5/0.25 210/-</td> <td></td> <td></td> </tr> <tr> <td>9 22 57 05</td> <td>SPI 32/0.55 210/0 fed</td> <td></td> <td></td> </tr> <tr> <td>9 22 89 05</td> <td>Plan 63/0.90 210/0 fed</td> <td></td> <td></td> </tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK10X, pair</p> <p>EPIR DARK-FIELD/BRIGHT-FIELD</p> <p>Objectives:</p> <table style="width: 100%;"> <tr> <td>9 22 82 05</td> <td>Plan 3.2/0.08 210/-</td> <td></td> <td></td> </tr> <tr> <td>9 22 54 06</td> <td>SPI Epi 6.3/0.15 210/0</td> <td></td> <td></td> </tr> <tr> <td>9 22 55 06</td> <td>SPI Epi 12.5/0.25 210/0</td> <td></td> <td></td> </tr> <tr> <td>9 22 57 06</td> <td>SPI Epi 32/0.55 210/0</td> <td></td> <td></td> </tr> <tr> <td>9 22 89 06</td> <td>Plan Epi 63/0.90 210/0</td> <td></td> <td></td> </tr> </table> <p>9 25 35 51 Wide field, high eyepoint eyepieces: BPK10X, pair</p> | 9 22 82 05 | Plan 3.2/0.08 210/- | | | 9 22 54 05 | SPI 6.3/0.15 210/- | | | 9 22 55 05 | SPI 12.5/0.25 210/- | | | 9 22 57 05 | SPI 32/0.55 210/0 fed | | | 9 22 89 05 | Plan 63/0.90 210/0 fed | | | 9 22 82 05 | Plan 3.2/0.08 210/- | | | 9 22 54 06 | SPI Epi 6.3/0.15 210/0 | | | 9 22 55 06 | SPI Epi 12.5/0.25 210/0 | | | 9 22 57 06 | SPI Epi 32/0.55 210/0 | | | 9 22 89 06 | Plan Epi 63/0.90 210/0 | | |
| 9 22 82 05 | Plan 3.2/0.08 210/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 54 05 | SPI 6.3/0.15 210/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 55 05 | SPI 12.5/0.25 210/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 57 05 | SPI 32/0.55 210/0 fed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 89 05 | Plan 63/0.90 210/0 fed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 82 05 | Plan 3.2/0.08 210/- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 54 06 | SPI Epi 6.3/0.15 210/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 55 06 | SPI Epi 12.5/0.25 210/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 57 06 | SPI Epi 32/0.55 210/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 22 89 06 | Plan Epi 63/0.90 210/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Zetopan 227US-U-BF (shown with optional PK8X eyepieces)



Zetopan 227US-SN-BFR

| Model | Catalog No. | Price |
|---------------------|-------------|-----------|
| Zetopan 227US-U-BF | 9 92 99 86 | \$7683.00 |
| Zetopan 227US-U-EPI | 9 92 99 87 | 8124.00 |
| Zetopan 227US-U-IK | 9 92 99 88 | 9576.00 |

| | | |
|-----------------------|------------|---------|
| Zetopan 227US-SN-BFR | 9 92 99 89 | 7913.00 |
| Zetopan 227US-SN-EPIR | 9 92 99 90 | 8356.00 |

INCIDENT LIGHT ZETOPAN FOR POLARIZATION

BASIC STAND

HYPHEN

OPAQUE ILLUMINATOR

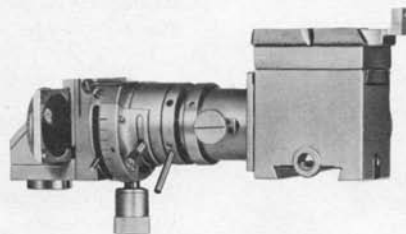
HYPHEN

OPTICS



ZETOPAN 230 US

Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photographic tube, distance piece, round rotary stage No. 30, attachable mechanical stage, "Lux US" lamp housing, 2 filter slides, lamp holder portion, 100W, low-voltage halogen lamp, regulating transformer.



U

9 90 00 08

Universal Opaque Illuminator, on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark-field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture.

- POL BRIGHT-FIELD**
- 9 03 34 21 Incident light filter polarizer
 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier
- Objectives on slides:
- | | | | | |
|------------|------|----------|-------|--------|
| 9 22 82 01 | Plan | 2.8/0.08 | 190/- | |
| 9 22 54 51 | SPI | 5.5/0.15 | 190/- | np* |
| 9 22 55 51 | SPI | 11/0.25 | 190/- | np |
| 9 22 57 51 | SPI | 28/0.55 | 190/0 | fed np |
| 9 22 89 51 | Plan | 56/0.90 | 190/0 | fed np |
- 9 18 26 03 Clamping bridge
 9 25 35 51 BPK10X wide field, high eyepoint eyepieces, pair

POL-EPI DARK-FIELD/BRIGHT-FIELD

- 9 03 34 21 Incident light filter polarizer
 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier
- Objectives on slides:
- | | | | | |
|------------|----------|----------|-------|----|
| 9 22 82 01 | Plan | 2.8/0.08 | 190/- | |
| 9 22 54 52 | SPI Epi | 5.5/0.15 | 190/0 | np |
| 9 22 55 52 | SPI Epi | 11/0.25 | 190/0 | np |
| 9 22 57 52 | SPI Epi | 28/0.55 | 190/0 | np |
| 9 22 89 52 | Plan Epi | 56/0.90 | 190/0 | np |
- 9 18 26 03 Clamping bridge
 9 25 35 51 BPK10X wide field, high eyepoint eyepieces, pair

HYPHEN

OPAQUE ILLUMINATOR WITH REVOLVING NOSEPIECE

HYPHEN

OPTICS



SN

9 44 07 05

Opaque Illuminator with built-in sextuple nosepiece, on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark-field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture.

NOTE: This illuminator is not suitable for Interference Contrast or Nomarski Interferometer.

- POLR BRIGHT-FIELD**
- 9 03 34 21 Incident light filter polarizer
 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier
- Objectives:
- | | | | | |
|------------|------|-----------|-------|--------|
| 9 22 82 05 | Plan | 3.2/0.08 | 210/- | |
| 9 22 54 55 | SPI | 6.3/0.15 | 210/- | np |
| 9 22 55 55 | SPI | 12.5/0.25 | 210/- | np |
| 9 22 57 55 | SPI | 32/0.55 | 210/0 | fed np |
| 9 22 89 55 | Plan | 63/0.90 | 210/0 | fed np |
- 9 18 26 03 Clamping bridge
 9 25 35 51 BPK10X wide field, high eyepoint eyepieces, pair

POL-EPIR DARK-FIELD/BRIGHT-FIELD

- 9 03 34 21 Incident light filter polarizer
 9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier
- Objectives:
- | | | | | |
|------------|----------|-----------|-------|----|
| 9 22 82 05 | Plan | 3.2/0.08 | 210/- | |
| 9 22 54 56 | SPI Epi | 6.3/0.15 | 210/0 | np |
| 9 22 55 56 | SPI Epi | 12.5/0.25 | 210/0 | np |
| 9 22 57 56 | SPI Epi | 32/0.55 | 210/0 | np |
| 9 22 89 56 | Plan Epi | 63/0.90 | 210/0 | np |
- 9 18 26 03 Clamping bridge
 9 25 35 51 BPK10X wide field, high eyepoint eyepieces, pair

INCIDENT LIGHT ZETOPAN FOR POLARIZATION

BASIC STAND

HYPHEN

**OPTICS WITH POL-OPAQUE ILLUMINATOR
ESPECIALLY SUITED FOR EARTH SCIENCE APPLICATIONS**

ZETOPAN 230 US

Microscope stand, illumination optics for transmitted, incident and mixed light, tube head with deviating prism and Bertrand lens, protective cover, binocular body, straight photographic tube, distance piece, round rotary stage No. 30, attachable mechanical stage, "Lux US" lamp housing, 2 filter slides, lamp holder portion, 100W, low-voltage halogen lamp, regulating transformer.



**IPOL
DARK-FIELD/BRIGHT-FIELD**

9 44 01 01 Universal polarizing opaque illuminator, on slider, Berek prism, on slide, interchangeable with a Gauss mirror, swing-in central diaphragm and sliding lens, swing-in and fully rotatable polarizer with 45° click stops, field-iris diaphragm, aperture-iris diaphragm, 5 central diaphragms according to Stach on turret, sector diaphragm, filter slot, deviating prism, centering clutch, 2 hexagon wrenches.

Objectives, in centering mounts (strain free):

| | | | | |
|-------------------|-----------|----------|-------|----|
| 9 22 54 58 | Spl Epi | 5.5/0.15 | 190/0 | np |
| 9 22 65 58 | Spl Epi | 11/0.25 | 190/0 | np |
| 9 22 57 58 | Spl Epi | 25/0.55 | 190/0 | np |
| 9 22 59 69 | Fluor | 50/0.90 | 190/0 | np |
| 9 22 60 69 | Fluor Oil | 80/1.30 | 190/0 | np |

9 46 04 01 Filter analyzer, rotatable through 360°, 0.1° vernier.

9 19 77 03 Inclined, monocular polarizing tube P, swing-in and axially displaceable Bertrand lens, iris diaphragm

9 18 26 03 Clamping bridge

9 25 04 03 PK8X+ cross line eyepiece

9 25 04 01 PK8X eyepiece

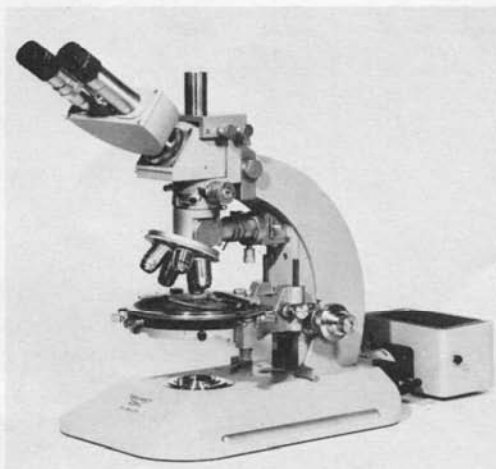


Zetopan 230US-U-POL

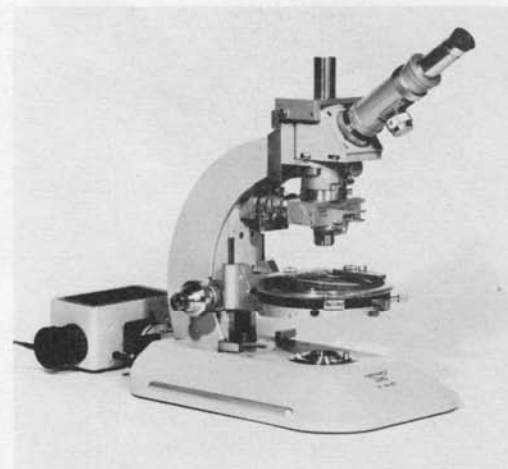
| Model | Catalog No. | Price |
|-------------------------|-------------|-----------|
| Zetopan 230US-U-POL | 9 92 99 83 | \$9168.00 |
| Zetopan 230US-U-POL-EPI | 9 92 99 84 | 9639.00 |

| | | |
|---------------------------|------------|-----------|
| Zetopan 230US-SN-POLR | 9 92 99 91 | \$9398.00 |
| Zetopan 230US-SN-POL-EPIR | 9 92 99 92 | 9870.00 |

| | | |
|--------------------|------------|-------------|
| Zetopan 230US-IPOL | 9 92 99 70 | \$11,979.00 |
|--------------------|------------|-------------|

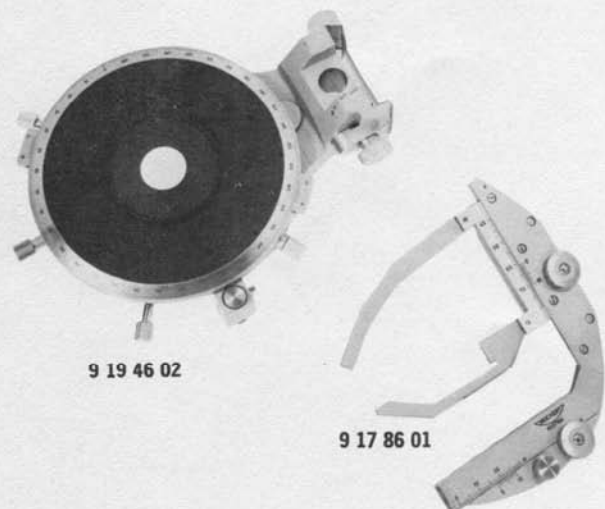
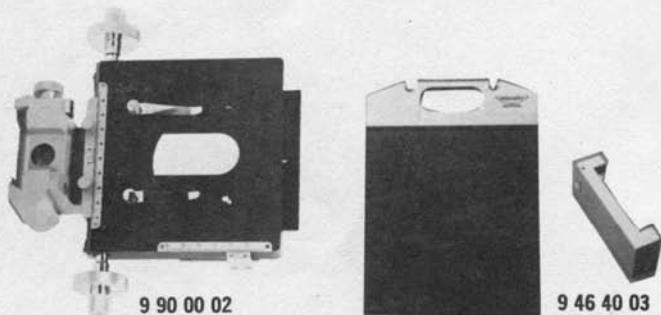
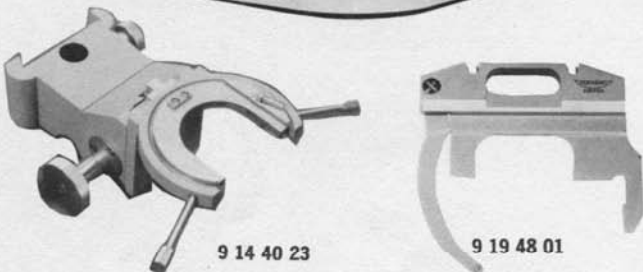
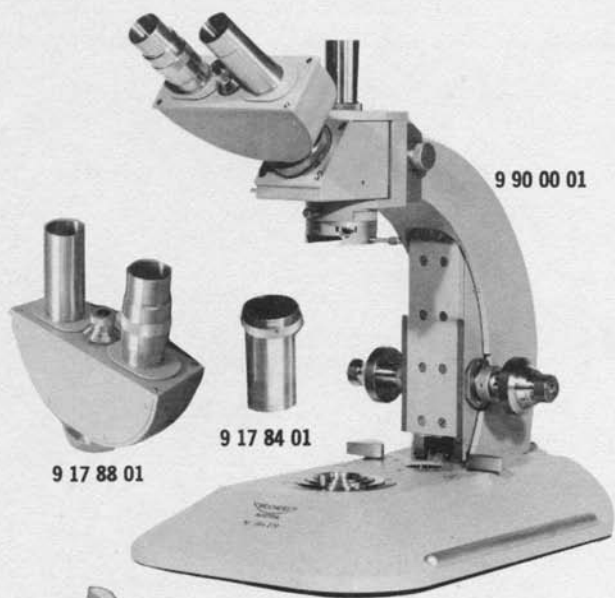


Zetopan 230US-SN-POLR



Zetopan 230US-IPOL

ZETOPAN INSTRUMENT COMPONENTS
Stand and Stages



| Catalog Number | Description | List Price |
|---|--|------------|
| ZETOPAN STAND | | |
| 9 90 00 01 | Microscope stand, co-axial coarse and fine focusing adjustment, built-in illumination optics for transmitted light, incident and mixed light, tube head, swing-out tube carrier, deviating prism for observation and photomicrography, swing-out Bertrand lens, protective cover of polyethylene | \$2505.00 |
| 9 17 88 01 | Binocular body, tube factor $q = 1X$ | 505.00 |
| 9 17 84 01 | Straight photo tube, tube factor $q = 1X$ | 9.00 |
| 9 90 00 15 | ZETOPAN stand outfit | 3019.00 |
| SQUARE STAGE: | | |
| 127 OUTFIT - Square Stage/ Transmitted Light | | |
| 9 90 00 02 | Square mechanical stage No. 27, stage surface 120 X 130 mm with coaxial controls on both sides, coordinate movements 50 X 75 mm, with stage carrier. | 750.00 |
| 9 14 40 23 | Condenser carrier, adjustable to height, centering device | 295.00 |
| 9 19 48 01 | Specimen holder, interchangeable | 67.00 |
| 9 00 00 16 | 127 square stage outfit for use with transmitted light | 1112.00 |
| 227 OUTFIT - Square Stage/Incident Light | | |
| 9 90 00 02 | Square mechanical stage No. 27, with stage carrier | 750.00 |
| 9 19 48 02 | Incident light cover plate | 33.00 |
| 9 46 40 03 | Distance piece | 33.00 |
| 9 00 00 17 | 227 square stage outfit for use with incident light | 816.00 |
| ROTARY STAGE: | | |
| 130 OUTFIT - Rotary Stage/ Transmitted Light | | |
| 9 19 46 02 | Large, round rotary stage No. 30, on stage carrier, stage rotation through 360°, ball bearings, 2 verniers reading to 0.1°, fine focusing control, 45° click stops, locking device for stage rotation, centering device, stage surface 135 mm diameter, 2 stage inserts | 905.00 |
| 9 17 86 01 | Attachable mechanical stage, coordinate movements 20 X 30 mm | 463.00 |
| 9 14 40 23 | Condenser carrier, adjustable to height, centering device | 295.00 |
| 9 00 00 18 | 130 Rotary Stage outfit for use with transmitted light | 1663.00 |
| 230 OUTFIT - Rotary Stage/Incident Light | | |
| 9 19 46 02 | Large, round rotary stage No. 30, on stage carrier | 905.00 |
| 9 17 86 01 | Attachable mechanical stage | 463.00 |
| 9 46 40 03 | Distance piece | 33.00 |
| 9 00 00 19 | 230 Rotary Stage outfit for use with incident light | 1401.00 |

LIGHT SOURCES

| | Catalog Number | Description | List Price |
|--|---|---|--|
|  <p>9 14 41 04</p> <p>2050</p> <p>2052</p> | <p>US 100W, low voltage halogen light source</p> <p>9 14 41 04</p> <p>2050</p> <p>2052</p> <p>9 00 09 17</p> | <p>"Lux US" lamp housing, on slider, adjustable collector, field iris diaphragm, reflecting mirror, frosted glass in slide. Filter slide with frosted daylight filter, neutral filter N4 and one open aperture. Filter slide with green filter 2VG9, neutral filter N6 and one open aperture.</p> <p>Lamp holder</p> <p>Low-voltage halogen lamp, 12V, 100W</p> <p>Regulating transformer with voltmeter</p> | <p>\$ 799.00</p> <p>63.00</p> <p>10.00</p> <p>231.00</p> |
|  <p>9 00 09 17</p>  <p>9 60 05 21</p>  <p>9 60 05 25</p>  <p>9 86 00 12</p>  <p>9 18 87 01</p>  <p>9 00 09 00</p>  <p>9 18 87 01</p>  <p>9 48 02 21</p> | <p>9 90 00 06</p> <p>FOR FLUORESCENCE:</p> <p>CH COMBINATION LIGHT SOURCE, "Binolux 3", HBO200W/2 Mercury with "Lux US", 100W, 12V Halogen.</p> <p>9 60 05 21</p> <p>9 60 05 32</p> <p>9 86 00 12</p> <p>9 60 05 25</p> <p>*9 00 09 00</p> <p>2052</p> <p>2050</p> <p>9 00 09 17</p> <p>9 18 87 01</p> <p>9 48 02 21</p> <p>9 00 00 44</p> <p>ALTERNATIVE "BINOLUX 3", XBO150W with 100W Halogen for Microprojection and special techniques.</p> <p>AX COMBINATION LIGHT SOURCE, "Binolux 3", XBO150W Xenon with "Lux US" 100W, 12V Halogen.</p> <p>9 60 05 21</p> <p>9 60 05 35</p> <p>9 00 09 08</p> <p>9 03 61 03</p> <p>*9 00 09 00</p> <p>2052</p> <p>2050</p> <p>9 00 09 17</p> <p>9 18 87 01</p> <p>9 48 02 21</p> <p>9 00 00 26</p> | <p>US 100W, low voltage halogen light source</p> <p>US 100W, low voltage halogen light source</p> <p>FOR FLUORESCENCE:</p> <p>CH COMBINATION LIGHT SOURCE, "Binolux 3", HBO200W/2 Mercury with "Lux US", 100W, 12V Halogen.</p> <p>"Binolux 3" dual lamp housing. High energy burner lamp housing, adjustable collector of quartz glass, field iris diaphragm, heat absorbing filter, filter housing, mirror housing with mirror and cover slide, filter slide, with green filter, 3 neutral filters, 1NG3, 2NG3, 2.5NG9, "Lux US" lamp housing, adjustable collector, reflecting mirror, frosted glass in slide, field iris diaphragm, heat absorbing filter. Filter slide with frosted daylight filter, neutral filter N4 and one open aperture. Filter slide with green filter 2VG9, neutral filter N6 and one open aperture.</p> <p>Filter slide for use with HBO200 mercury burner, with UV-heat absorbing filter 2KG2 + 5GG385, and 3 exciter filters, 2X3BG12, 1.5UG1, 3UG1 + 2.5BG38</p> <p>Super pressure mercury vapor burner HBO200W/2</p> <p>Spacer, for mercury burner</p> <p>Power supply unit, for D.C., HBO200/XBO150</p> <p>Low-voltage halogen lamp, 12V, 100W</p> <p>Lamp holder</p> <p>Regulating transformer, with voltmeter</p> <p>Microscope sub-base</p> <p>Light shield tube</p> <p>CH Combination Light Source, "Binolux 3", with HBO200W/2 Mercury and 100W Halogen</p> <p>ALTERNATIVE "BINOLUX 3", XBO150W with 100W Halogen for Microprojection and special techniques.</p> <p>AX COMBINATION LIGHT SOURCE, "Binolux 3", XBO150W Xenon with "Lux US" 100W, 12V Halogen.</p> <p>"Binolux 3" Dual Lamp Housing</p> <p>Filter slide for use with XBO150 xenon burner, with UV-heat absorbing filter, 2KG2 + 5GG385 and 3 open apertures</p> <p>Xenon high pressure burner XBO150W/1</p> <p>Neutral filter, in slip-on mount for eyepieces, 2 pcs.</p> <p>Power supply unit, for D.C. HBO200/XBO150</p> <p>Low-voltage halogen lamp, 12V, 100W</p> <p>Lamp holder</p> <p>Regulating transformer, with voltmeter</p> <p>Microscope sub-base</p> <p>Light shield tube</p> <p>AX Combination Light Source, "Binolux 3", with XBO150W Xenon and 100W Halogen</p> | <p>1103.00</p> <p>2529.00</p> <p>168.00</p> <p>83.00</p> <p>21.00</p> <p>612.00</p> <p>10.00</p> <p>63.00</p> <p>231.00</p> <p>135.00</p> <p>21.00</p> <p>3873.00</p> <p>2529.00</p> <p>63.00</p> <p>127.00</p> <p>42.00</p> <p>612.00</p> <p>10.00</p> <p>63.00</p> <p>231.00</p> <p>135.00</p> <p>21.00</p> <p>3833.00</p> |

*when ordering a 9 00 09 00 power supply for an already existing instrument, please specify whether it is to be used with an XBO150 or HBO200.

TRANSMITTED LIGHT OBJECTIVES and NOSEPIECES



9 22 20 02 9 22 07 01 9 22 04 01



9 22 40 02 9 22 34 01 9 22 37 01



9 22 10 09 9 22 07 05 9 22 04 05



9 22 20 06 9 22 04 06 9 22 07 06



9 03 12 05
(shown with
objectives)



9 03 12 06
(shown with
objectives)

| Catalog Number | Description | Working Distance mm. | List Price | Strain Free Objectives engraved "np" | |
|---|--|----------------------|------------|--------------------------------------|------------|
| | | | | Catalog Number | List Price |
| OBJECTIVES | | | | | |
| Semplan objectives: | | | | | |
| 9 22 04 01 | SPI 10/0.25 160/- | 6.8 | \$ 97.00 | 9 22 04 51 | \$135.00 |
| 9 22 05 01 | SPI 16/0.32 160/- | 1.2 | 107.00 | | |
| 9 22 06 01 | SPI 25/0.45 160/0.17 fed * | 0.85 | 177.00 | 9 22 06 51 | 227.00 |
| 9 22 07 01 | SPI 40/0.65 160/0.17 fed | 0.55 | 160.00 | 9 22 07 51 | 219.00 ✓ |
| 9 22 17 02 | Iris 40/0.90 160/0.17 fed | 0.52 | 320.00 | | |
| | Pol 40/0.90 160/0.17 fed | 0.52 | | 9 22 17 53 | 346.00 |
| 9 22 08 01 | SPI 63/0.80 160/0.17 fed | 0.15 | ✓227.00 | 9 22 08 51 | 291.00 |
| 9 22 08 04 | SPI 63/0.80 160/0 fed | 0.15 | 244.00 | | |
| 9 22 18 01 | SPI Oil 50/1.00 160/- fed | 0.25 | 585.00 | 9 22 18 51 | 662.00 |
| 9 22 20 02 | SPI Oil Iris 100/1.30 160/0.17 fed | 0.10 | ✓632.00 | 9 22 20 52 | 715.00 ✓ |
| 9 22 09 08 | SPI Glyc Iris 60/0.95 160/- fed | 0.36 | 400.00 | | |
| 9 22 10 08 | SPI Glyc Iris 95/1.18 160/0.17 fed | 0.11 | 400.00 | | |
| 9 22 20 08 | SPI Glyc Iris 100/1.25 160/0.17 fed | 0.10 | ✓694.00 | | |
| Plan achromatic objectives: | | | | | |
| 9 22 31 01 | Plan 2.5/0.08 160/- | 5.0 | ✓168.00 | | |
| 9 22 32 01 | Plan 4/0.10 160/- | 11.0 | 122.00 | 9 22 32 51 | 169.00 |
| 9 22 34 01 | Plan 10/0.25 160/- | 1.4 | ✓303.00 | 9 22 34 51† | 353.00 |
| 9 22 36 01 | Plan 25/0.45 160/0.17 fed | 0.27 | 370.00 | | |
| 9 22 37 01 | Plan 40/0.65 160/0.17 fed | 0.20 | 421.00 | 9 22 37 51‡ | 505.00 |
| 9 22 38 01 | Plan 63/0.80 160/0.17 fed | 0.11 | 505.00 | 9 22 38 51† | 590.00 |
| 9 22 40 02 | Plan Oil Iris 100/1.25 160/0.17 fed | 0.09 | ✓883.00 | 9 22 40 52† | 989.00 ✓ |
| †These objectives are engraved with IK and are for use with transmitted light interference contrast only. | | | | | |
| Fluorite objectives: | | | | | |
| 9 22 25 01 | Fluor 16/0.50 160/0.17 fed | 2.0 | 346.00 | | |
| Anoptral contrast Semplan objectives: | | | | | |
| 9 22 04 05 | PhA 10/0.25 160/- (1)‡ | 6.8 | ✓160.00 | | |
| 9 22 06 05 | PhA 25/0.45 160/0.17 fed (3) | 0.85 | 253.00 | | |
| 9 22 07 05 | PhA 40/0.65 160/0.17 fed (4) | 0.55 | 269.00 | | |
| 9 22 17 05 | PhA 40/0.90 160/0.17 fed (4) | 0.52 | 395.00 | | |
| 9 22 08 05 | PhA 63/0.80 160/0.17 fed (5) | 0.15 | ✓337.00 | | |
| 9 22 20 05 | Oil PhA 100/1.30 160/0.17 fed (6) | 0.10 | 694.00 | | |
| 9 22 10 09 | Oil PhA 100/1.25 160/0.17 fed (5) | 0.12 | ✓339.00 | | |
| 9 22 09 11 | Glyc PhA 60/0.95 160/- fed (5) | 0.36 | 548.00 | | |
| 9 22 20 11 | Glyc PhA 100/1.25 160/0.17 fed (5) | 0.10 | 757.00 | | |
| Anoptral contrast plan achromatic objectives: | | | | | |
| 9 22 34 05 | Plan PhA 10/0.25 160/- (1) | 1.4 | ✓395.00 | | |
| 9 22 37 05 | Plan PhA 40/0.65 160/0.17 fed (4) | 0.20 | 602.00 | | |
| 9 22 38 05 | Plan PhA 63/0.80 160/0.17 fed (5) | 0.11 | 692.00 | | |
| 9 22 40 05 | Plan Oil PhA 100/1.25 160/0.17 fed (5) | 0.09 | 1116.00 | | |
| Anoptral contrast fluorite objectives: | | | | | |
| 9 22 25 05 | Fluor PhA 16/0.50 160/0.17 fed (2) | 2.0 | 413.00 | | |
| Phase contrast Semplan objectives: | | | | | |
| 9 22 04 06 | Ph 10/0.25 160/- (1) | 6.8 | ✓160.00 | | |
| 9 22 06 06 | Ph 25/0.45 160/0.17 fed (2) | 0.85 | 253.00 | | |
| 9 22 07 06 | Ph 40/0.65 160/0.17 fed (3) | 0.55 | 269.00 | | |
| 9 22 08 06 | Ph 63/0.80 160/0.17 fed (4) | 0.15 | 337.00 | | |
| 9 22 20 06 | SPI Oil Ph 100/1.30 160/0.17 fed (5) | 0.10 | 694.00 | | |
| Phase contrast plan achromatic objectives: | | | | | |
| 9 22 40 06 | Plan Oil Ph 100/1.25 160/0.17 fed (5) | 0.09 | 1116.00 | | |
| *fed - designates objectives with spring loaded front element. | | | | | |
| ‡number in parenthesis, e.g. (1), designates corresponding annulus in phase condenser. | | | | | |

| Catalog Number | Description | List Price |
|-------------------|--|------------|
| NOSEPIECES | | |
| 9 03 12 05 | Quadruple nosepiece, on slider | \$168.00 |
| 9 03 12 06 | Sextuple nosepiece, on slider | 235.00 |
| 9 03 12 10 | Sextuple nosepiece, for use with interference contrast, engraved "IK", on slider | 257.00 |

TRANSMITTED LIGHT EYEPIECES and CONDENSERS

| Catalog Number | Description | List Price | Eyepiece Pairs | |
|--|----------------------------|------------|----------------|------------|
| | | | Catalog Number | List Price |
| | | | | |
| EYEPIECES | | | | |
| Plan compensating eyepieces: with eyecups for visual observation and photomicrography | | | | |
| 9 25 02 01 | PK 5 X H.E.P.* | \$ 76.00 | 9 25 02 51 | \$152.00 |
| 9 25 03 01 | PK 6.3X H.E.P. | 67.00 | 9 25 03 51 | 134.00 |
| 9 25 04 01 | PK 8 X | 76.00 | 9 25 04 51 | 152.00 |
| 9 25 15 01 | Wide field WK 10 X | 76.00 | 9 25 15 51 | 152.00 |
| 9 25 06 01 | PK 12.5X H.E.P. | 135.00 | 9 25 06 51 | 270.00 |
| 9 25 07 01 | PK 16 X | 102.00 | 9 25 07 51 | 204.00 |
| 9 25 09 01 | PK 25 X | 118.00 | 9 25 09 51 | 236.00 |
| 9 25 35 01 | Wide field BPK 10 X H.E.P. | 151.00 | 9 25 35 51 | 302.00 |

| Catalog Number | Description | List Price |
|--|---|------------|
| | | |
| SPECIAL EYEPIECES | | |
| With adjustable eyelens mount and eyecups. These eyepieces can be combined with standard plan compensating eyepieces of equal magnification. | | |
| Cross-line eyepiece: | | |
| 9 25 03 03 | PK 6.3X + p | \$ 135.00 |
| 9 25 04 03 | PK 8 X + p | 143.00 |
| 9 25 06 03 | PK 12.5X + p H.E.P.* | 202.00 |
| Measuring eyepieces: Scale 10mm ruled to 0.1mm | | |
| 9 25 03 04 | PK 6.3X m | 151.00 |
| 9 25 04 04 | PK 8 X m | 160.00 |
| 9 25 06 04 | PK 12.5X m H.E.P.* | 219.00 |
| Counting eyepieces: | | |
| 5 X 5 mm square divided into 100 squares | | |
| 9 25 03 05 | PK 6.3X mn | 151.00 |
| 9 25 04 05 | PK 8 X mn | 160.00 |
| 9 25 06 05 | PK 12.5X mn H.E.P.* | 219.00 |
| 426C | Filar micrometer eyepiece 10X, with magnification compensator, Metric scale | 276.00 |
| 424C | Filar micrometer eyepiece 10X, with magnification compensator, English scale | 276.00 |
| 9 89 00 39 | Eyepiece with adjustable counting lines Kpl 8X | 129.00 |
| 9 25 50 01 | Auxiliary telescope | 105.00 |
| *These eyepieces have a High Eye Point and are suitable for use with eyeglasses. | | |
| CONDENSERS | | |
| BRIGHT-FIELD CONDENSERS | | |
| 9 99 00 01 | Two-diaphragm condenser, N.A. = 0.95, top element swing-out and interchangeable, on slider | 370.00 |
| 9 17 14 01 | Condenser top element, N.A. = 1.30, (must be ordered with condenser No. 99 00 01) | 105.00 |
| 9 99 00 14 | Two-lens condenser, N.A. = 0.90, with swing-out top element, aperture-iris diaphragm, filter holder, on slider | 185.00 |
| 9 99 00 09 | Two-lens wide field condenser, N.A. = 0.22, f = 55 mm, on slider | 135.00 |
| 9 99 00 11 | Achromatic aplanatic condenser, N.A. = 1.35/MSPM, six lens condenser, centering mount, aperture iris diaphragm with division, filter holder, on slider. For use with Microspectrophotometer. | 455.00 |
| BRIGHT-FIELD CONDENSERS, STRAIN FREE | | |
| 9 99 00 02 | Two-diaphragm condenser, N.A. = 0.95 np, swing-out and interchangeable top element, on slider | 442.00 |
| 9 17 14 51 | Condenser top element, N.A. = 1.30 np, (must be supplied with condenser 99 00 02) | 118.00 |
| 9 99 00 21 | Two-lens condenser, N.A. = 0.92 np, swing-out top element, aperture-iris diaphragm, filter holder, on slider | 261.00 |
| 9 99 00 10 | Two-lens wide field condenser, N.A. = 0.22 np, f = 55 mm, on slider | 151.00 |

**TRANSMITTED LIGHT
CONDENSERS (Cont.)**



9 99 00 18



9 99 00 05



9 99 00 08

9 46 31 01



9 99 00 17



9 28 28 60



9 99 00 16



9 28 28 35

| Catalog Number | Description | List Price |
|---|--|------------|
| DARK-FIELD CONDENSERS | | |
| 9 99 00 18 | Wide-field immersion dark-field condenser N.A. = 1.18/1.42/D, with toric lens, fixed condenser sleeve on slider, 2 dark-field object slides | \$ 278.00 |
| 9 99 00 03 | Immersion dark-field condenser, N.A. = 1.18/1.42/D, fixed condenser sleeve on slider, 2 dark-field object slides. For use on microspectrophotometer. | 244.00 |
| PHASE/ANOPTRAL PHASE CONTRAST CONDENSERS | | |
| 9 99 00 05 | Contrast condenser, N.A. = 0.98, turret with 6 annular aperture diaphragms (1-6), 3 empty apertures, centering device, aperture iris diaphragm, with wide field optics, on slider. | 690.00 |
| 9 99 00 06 | Long focus contrast condenser, N.A. = 0.60, turret with 6 annular aperture diaphragms (1a, 1-5), 3 empty apertures, centering device, aperture iris diaphragm, on slider. | 615.00 |
| 9 99 00 07 | Contrast fluorescence condenser, N.A. = 0.92, turret with 5 annular aperture diaphragms (1-5) transparent to UV, aperture with red excluding filter (B), 3 empty apertures, centering device and aperture iris diaphragm, on slider. | 883.00 |
| INTERFERENCE CONTRAST CONDENSER | | |
| 9 99 00 08 | Interference contrast condenser, N.A. = 0.70, turret with 4 built-in quartz double prisms for IK plan achromatic objectives, wide field optics, 4 empty apertures, centering device and aperture iris diaphragm, on slider. | 1810.00 |
| 9 46 31 01 | Quartz double prism, in slider | 337.00 |
| MULTISYSTEM CONDENSERS | | |
| 9 99 00 17 | Two-lens condenser, N.A. = 0.65/MS, condenser sleeve with magnetic plate, centering key, aperture iris diaphragm with filter holder, on slider. | 193.00 |
| Magnetic Inserts for dark-field examinations: | | |
| 9 28 28 60 | Insert with central stop D 0.25 | 46.00 |
| 9 28 28 63 | Insert with central stop D 0.65 | 46.00 |
| 9 28 28 81 | Insert with central stop 0.50 | 46.00 |
| Magnetic Inserts for phase and Anoptral contrast examinations: | | |
| 9 28 28 64 | Insert with annular diaphragm D1, for PhA 10/0.25 Ph 10/0.25 Ph 16/0.32 | 46.00 |
| 9 28 28 67 | Insert with annular diaphragm D2, for PhA 16/0.32 Fluor PhA 16/0.50 Ph 25/0.45 | 46.00 |
| 9 28 28 65 | Insert with annular diaphragm D3, for PhA 25/0.45 Ph 40/0.65 | 46.00 |
| 9 28 28 66 | Insert with annular diaphragm D4, for Ph 40/0.65 PhA 40/0.90 Ph 63/0.80 | 46.00 |
| 9 90 00 16 | Three-lens condenser, N.A. = 1.40/UV/MS, condenser sleeve with magnetic plate, centering key, aperture iris diaphragm with filter holder, on slider | 266.00 |
| Magnetic Inserts for contrast fluorescence examinations: | | |
| 9 28 28 35 | Insert with filter diaphragm UV3, for PhA 25/0.45 Ph 40/0.65 | 93.00 |
| 9 28 28 36 | Insert with filter diaphragm UV4, for PhA 40/0.65 PhA 40/0.90 Ph 63/0.80 | 93.00 |
| 9 28 28 37 | Insert with filter diaphragm UV5, for PhA 63/0.80 Oil PhA 100/1.30 Glyc PhA 60/0.95 Glyc PhA 95/1.18 Oil Ph 100/1.30 | 93.00 |
| 9 28 28 38 | Insert with filter diaphragm UV6, for Oil PhA 100/1.25 | 93.00 |

**TRANSMITTED LIGHT
INCIDENT LIGHT FLUORESCENCE COMPONENTS**

| | Catalog Number | Description | List Price |
|---|----------------|---|------------|
| <p style="text-align: center;">9 44 07 02</p> <p style="text-align: center;">9 91 00 83</p> <p style="text-align: center;">9 46 40 03</p> | 9 44 07 02 | Incident light fluorescence illuminator, on slide (tube factor $q = 1.6X$), illuminator housing, mirror slide with 4 dichroic interference beam splitters and 4 barrier filters, deviating mirror, housing accepting an interchangeable filter turret, hinged screen, nosepiece 6X | \$2651.00 |
| | 9 91 00 83 | Filter turret a, with green exciter filter 56 (546nm), red barrier filter 60 (2.5BG38), blue exciter filter 49 (3BG12 + 3KV418) and cover disk 0 | 257.00 |
| | 9 91 00 85 | Filter turret b, with UV exciter filter 40 (2UG1), red barrier filter 60 (2.5BG38), violet exciter filter 45 (405nm), and cover disk 0 | 244.00 |
| | 9 91 00 87 | Filter turret c, with blue exciter filter 49 (3BG12), red barrier filter 60 (2.5BG38), UV exciter filter 40 (2UG1) and cover disk 0 | 122.00 |
| | 9 46 40 03 | Distance piece | 33.00 |

**TRANSMITTED LIGHT
PARTS and ACCESSORIES**

| | Catalog Number | Description | List Price |
|---|--|---|------------|
| <p style="text-align: center;">9 17 90 01</p> <p style="text-align: center;">9 46 07 01</p> <p style="text-align: center;">9 46 04 01</p> <p style="text-align: center;">9 02 80 01</p> <p style="text-align: center;">9 19 77 03 (shown with eyepiece)</p> <p style="text-align: center;">9 18 26 03</p> <p style="text-align: center;">9 65 06 21 with 9 65 06 22</p> <p style="text-align: center;">9 67 07 23</p> <p style="text-align: center;">9 65 05 21</p> | POLARIZING ACCESSORIES | | |
| | 9 17 90 01 | Transmitted light polarizer, rotatable through 360° , graduated in 5° , and click stops at 0° , 90° , 180° and 270° | \$ 169.00 |
| | 9 46 07 01 | Filter analyzer, fixed, in standard slide | 105.00 |
| | 9 46 04 01 | Filter analyzer, rotatable through $360^\circ/0.1^\circ$ vernier, in standard slide | 442.00 |
| | Compensators, in metal mount: | | |
| | 9 02 78 01 | Quartz wedge, 1st to 3rd order | 202.00 |
| | 9 02 79 01 | Mica plate $1/4 \lambda$ | 63.00 |
| | 9 02 80 01 | Gypsum plate, red, 1st order | 63.00 |
| | 9 19 77 03 | Inclined, monocular polarizing tube P, swing-in and axially displaceable Bertrand lens, iris diaphragm | 277.00 |
| | 9 18 26 03 | Clamping bridge, for Zetopan tube head | 59.00 |
| | 9 19 24 01 | Auxiliary magnifier, 12X, scale 10mm, divided into 0.1mm, with adjustable eyelens, swing-out type with mounting bracket | 303.00 |
| | BIO THERM, BIOLOGICAL HOTPLATE | | |
| | 9 67 07 23 | Biological hotplate, with attached specimen clamps, intermediate portion for attachment to stage No. 27 (outfits 127 and 227). | 118.00 |
| | 9 67 07 31 | Thermometer shoe | 21.00 |
| | 9 86 10 01 | Thermometer, gauged from $+30^\circ$ to $+45^\circ C$ | 25.00 |
| 9 00 10 02 | Specimen clamp | 4.00 | |
| 9 67 08 01 | Regulating transformer, with regulating device and scale for temperature | 160.00 | |
| 9 67 07 03 | Biotherm biological hotplate | 328.00 | |
| MICROFLASH EQUIPMENT | | | |
| 9 65 06 21 | Flash tube insert, pilot lamp insert with collector and protective cover | 421.00 | |
| 9 65 06 22 | Flash tube | 67.00 | |
| 9 65 05 21 | Control unit, with voltage selector for 110, 150 and 220V | 610.00 | |
| 9 65 05 22 | Synchronizing cable | 21.00 | |
| 9 02 63 01 | Low-voltage bulb, 6V, 15W, 2 pieces | 39.00 | |
| 9 03 03 02 | Bulb holder, with cable and plug | 33.00 | |
| 9 65 06 23 | Filter slide with neutral filter N1, green filters G1 and G2 | 72.00 | |
| 9 65 06 24 | Filter slide with neutral filters N2, N4 and N6 | 72.00 | |
| 9 00 00 54 | Microflash equipment | 1335.00 | |
















**TRANSMITTED LIGHT
PARTS and ACCESSORIES**

| | Catalog Number | Description | List Price | |
|---|--|--|------------------------------------|--|
| <p>9 18 29 01</p> <p>9 13 48 01</p> <p>9 16 93 01</p> <p>9 17 96 21</p> <p>9 17 89 01</p> <p>9 48 02 23</p> | | VIEWING SCREEN | | |
| | 9 18 29 01 | Viewing screen housing with clamping collar, adjusting screws for the deviating prism, built-in Fresnel lens, frosted screen, anti-dazzle screen, adapter ring | \$619.00 | |
| | 9 03 61 03 | Neutral filter, in slip-on mount for eyepieces, 2 pieces | 42.00 | |
| | 9 25 04 01 | Plan compensating eyepiece PK 8X | 76.00 | |
| | 9 90 01 35 | Viewing screen outfit | 737.00 | |
| | | | MICROPROJECTION ACCESSORIES | |
| | 9 13 48 01 | Projection prism, oriented at 45° to the optical axis | 93.00 | |
| | 9 16 93 01 | Projection mirror, can be set at any desired angle to the optical axis | 89.00 | |
| | 9 17 96 21 | Cinephotomicrographic lens flange, with standard C thread | 135.00 | |
| | | | OTHER ACCESSORIES | |
| | 9 89 00 01 | Transmitted light stage micrometer, of glass scale 2 mm, ruled to 0.01 mm | 59.00 | |
| | 9 17 89 01 | Inclined, monocular body M | 67.00 | |
| | 9 89 00 11 | Immersion oil, normal | 2.00 | |
| | 9 89 00 13 | Immersion glycerin, non-fluorescent | 4.00 | |
| | 9 89 00 07 | Object slides, of UV glass, 26 X 75 mm, 50 pieces | 21.00 | |
| 9 99 00 23 | Dark-field object slides, 26 X 76 mm, polished on both sides (0.7-1.0 mm), 10 pieces | 13.00 | | |
| 9 48 12 01 | Barrier filter slide, with 3 barrier filters: 1GG9, 3KV418, 1GG9 + 1.50G530 | 93.00 | | |
| 9 48 02 23 | Hinged screen of yellow glass for fluorescent work | 63.00 | | |
| 9 19 32 01 | UV barrier eyeglasses | 51.00 | | |

**INCIDENT LIGHT
OPAQUE ILLUMINATORS**

| | Catalog Number | Description | List Price |
|---|---|--|------------|
| <p>9 90 00 08</p> <p>9 44 07 05</p> <p>9 44 01 01</p> | | ILLUMINATORS | |
| | 9 90 00 08 | "U" Universal Opaque Illuminator on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture. (For use with 190mm objectives) | \$ 981.00 |
| | 9 44 07 05 | "SN" Opaque Illuminator with built-in Sextuple nosepiece, on slider, aperture iris diaphragm with centering control and illumination lens control, field iris diaphragm, swing-in dark-field stop. Slider with rotatable sector diaphragm, aperture for polarizer, open aperture (for use with 210mm objectives) NOTE: This illuminator is not suitable for Nomarski Interference Contrast or Nomarski Interferometer. | 1318.00 |
| 9 44 01 01 | "IPOL" Universal Polarizing opaque illuminator, on slider, Berek prism, on slide, interchangeable with a Gauss mirror, swing-in central diaphragm and sliding lens, swing-in and fully rotatable polarizer with 45° click stops, field-iris diaphragm, aperture-iris diaphragm, 5 central diaphragms according to Stach on turret, sector diaphragm, filter slot, deviating prism, centering clutch, 2 hexagon wrenches | 2871.00 | |

INCIDENT LIGHT OBJECTIVES

| Catalog Number | Description | Working Distance mm | List Price | Strain Free Objectives engraved "np" | |
|---|---|---|------------|--------------------------------------|----------------------|
| | | | | Catalog Number | List Price |
| OBJECTIVES, 190mm, with objective slide, for use with "U" Opaque Illuminator | | | | | |
| BRIGHT-FIELD | | | | | |
| SEMPLAN objectives: | | | | | |
|  |  |  | | | |
| 9 22 90 01 | 9 22 88 51 | 9 22 55 01 | | | |
| 9 22 54 01 | SPI | 5.5/0.15 190/- | 17.2 | \$160.00 | 9 22 54 51 \$ 215.00 |
| 9 22 55 01 | SPI | 11/0.25 190/- | 4.6 | 198.00 | 9 22 55 51 248.00 |
| 9 22 57 01 | SPI | 28/0.55 190/0 fed | 0.7 | 328.00 | 9 22 57 51 391.00 |
| FLUORITE objectives: | | | | | |
| 9 22 58 01 | Fluor | 45/0.75 190/0 fed | 0.29 | 273.00 | 9 22 58 51 337.00 |
| 9 22 60 01 | Fluor Oil | 90/1.30 190/0 fed | 0.23 | 295.00 | 9 22 60 51 357.00 |
| PLAN ACHROMATIC objectives: | | | | | |
| 9 22 82 01 | Plan | 2.8/0.08 190/- | 5.0 | 224.00 | |
| 9 22 88 01 | Plan | 45/0.85 190/0 fed | 0.27 | 459.00 | 9 22 88 51 577.00 |
| 9 22 89 01 | Plan | 56/0.90 190/0 fed | 0.22 | 552.00 | 9 22 89 51 686.00 |
| 9 22 90 01 | Plan Oil | 90/1.25 190/0 fed | 0.26 | 1031.00 | 9 22 90 51 1136.00 |
| DARK-FIELD/BRIGHT-FIELD | | | | | |
| EPI-SEMPLAN objectives: | | | | | |
|  |  |  | | | |
| 9 22 89 52 | 9 22 57 52 | 9 22 54 52 | | | |
| 9 22 54 02 | Epi | 5.5/0.15 190/0 | 17.2 | 273.00 | 9 22 54 52 349.00 |
| 9 22 55 02 | Epi | 11/0.25 190/0 | 4.6 | 341.00 | 9 22 55 52 391.00 |
| 9 22 57 02 | Epi | 28/0.55 190/0 | 0.7 | 413.00 | 9 22 57 52 475.00 |
| EPI PLAN ACHROMATIC objective: | | | | | |
| 9 22 89 02 | Plan Epi | 56/0.90 190/0 | 0.22 | 652.00 | 9 22 89 52 796.00 |
| OBJECTIVES, 190mm, with quick changer, for use with "I-POL" Opaque Illuminator | | | | | |
|  |  |  | | | |
| 9 22 59 69 | 9 22 57 58 | 9 22 65 58 | | | |
| | Epi | 5.5/0.15 190/0 | 17.2 | | 9 22 54 58 366.00 |
| | Epi | 11/0.25 190/0 | 4.6 | | 9 22 65 58 408.00 |
| | Epi | 25/0.55 190/0 | 0.7 | | 9 22 57 58 492.00 |
| | Fluor | 50/0.90 190/0 | 0.23 | | 9 22 59 69 632.00 |
| | Fluor Oil | 80/1.30 190/0 | 0.23 | | 9 22 60 69 690.00 |
| OBJECTIVES, 210mm, for use with "SN" Opaque Illuminator | | | | | |
| BRIGHT-FIELD | | | | | |
| SEMPLAN objectives: | | | | | |
|  |  |  | | | |
| 9 22 90 55 | 9 22 89 55 | 9 22 54 55 | | | |
| 9 22 54 05 | SPI | 6.3/0.15 210/- | 17.2 | 139.00 | 9 22 54 55 193.00 |
| 9 22 55 05 | SPI | 12.5/0.25 210/- | 4.6 | 177.00 | 9 22 55 55 227.00 |
| 9 22 57 05 | SPI | 32/0.55 210/0 fed | 0.7 | 307.00 | 9 22 57 55 370.00 |
| FLUORITE objectives: | | | | | |
| | Fluor | 50/0.75 210/0 fed | 0.29 | | 9 22 58 55 497.00 |
| | Fluor Oil | 100/1.30 210/0 fed | 0.23 | | 9 22 60 55 652.00 |
| PLAN ACHROMATIC objectives: | | | | | |
| 9 22 82 05 | Plan | 3.2/0.08 210/- | 5.0 | 202.00 | |
| 9 22 88 05 | Plan | 50/0.85 210/0 fed | 0.27 | 437.00 | 9 22 88 55 555.00 |
| 9 22 89 05 | Plan | 63/0.90 210/0 fed | 0.22 | 530.00 | 9 22 89 55 665.00 |
| 9 22 90 05 | Plan Oil | 100/1.25 210/0 fed | 0.26 | 1010.00 | 9 22 90 55 1116.00 |
| DARK-FIELD/BRIGHT-FIELD | | | | | |
| EPI-SEMPLAN objectives: | | | | | |
|  |  |  | | | |
| 9 22 89 06 | 9 22 55 06 | 9 22 54 06 | | | |
| 9 22 54 06 | Epi | 6.3/0.15 210/0 | 17.2 | 253.00 | 9 22 54 56 328.00 |
| 9 22 55 06 | Epi | 12.5/0.25 210/0 | 4.6 | 320.00 | 9 22 55 56 370.00 |
| 9 22 57 06 | Epi | 32/0.55 210/0 | 0.7 | 391.00 | 9 22 57 56 455.00 |
| EPI PLAN ACHROMATIC objectives: | | | | | |
| 9 22 89 06 | Plan Epi | 63/0.90 210/0 | 0.22 | 632.00 | 9 22 89 56 774.00 |

INCIDENT LIGHT ACCESSORIES



9 46 07 01



9 46 04 01



9 02 80 01



9 18 26 03



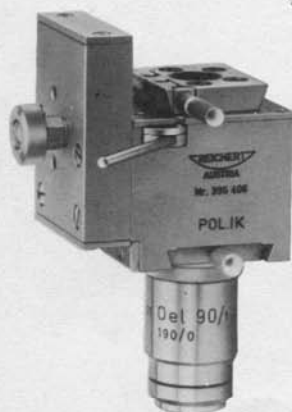
9 19 77 03



9 19 23 01



9 19 24 01



9 46 09 03
(shown with objective)

Catalog
Number

Description

List
Price

POLARIZING ACCESSORIES

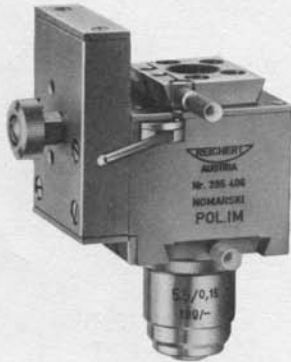
| | | |
|---|--|----------|
| 9 03 34 21 | Incident light filter polarizer, in threaded mount | \$ 97.00 |
| 9 46 07 01 | Filter analyzer, fixed, in standard slide | 105.00 |
| 9 46 04 01 | Filter analyzer, rotatable through 360°/0.1° vernier, in standard slide | 442.00 |
| Compensators, in metal mount: | | |
| 9 02 78 01 | Quartz wedge, 1st to 3rd order | 202.00 |
| 9 02 79 01 | Mica plate 1/4 λ | 63.00 |
| 9 02 80 01 | Gypsum plate, red, 1st order | 63.00 |
| 9 18 26 03 | Clamping bridge, for Zetopan tube head | 59.00 |
| 9 19 77 03 | Inclined, monocular polarizing tube P, swing-in and axially displaceable Bertrand lens, iris diaphragm | 277.00 |
| Accessories for conoscopic examinations: | | |
| 9 19 23 01 | Czapski eyepiece, Huygenian eyepiece 4X, with field-iris diaphragm and adjustable eyelens | 108.00 |
| 9 19 24 01 | Auxiliary magnifier, 12X, scale 10mm, 0.1mm divisions, with adjustable eyelens, swing-out type with mounting bracket | 303.00 |

INTERFERENCE CONTRAST

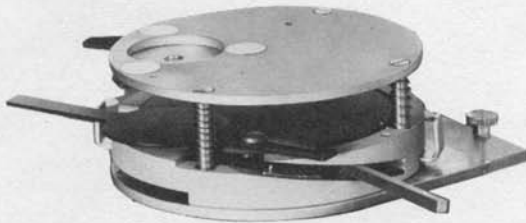
| | | |
|------------|--|---------|
| 9 46 09 03 | Interference Contrast Equipment, on slider, adjustable quartz double prism, rotary knob for adjustment to the objective, lever for adjustment to bright, dark and color contrasts (tube factor $q = 1.25X$) | 1052.00 |
|------------|--|---------|

NOTE: This equipment must be used in conjunction with a polarizer, analyzer. It is for use with all strain free objectives with magnifications of 11/0.25 and higher.

INCIDENT LIGHT ACCESSORIES



9 46 09 02
(shown with objective)



9 46 13 21



9 18 65 01

| Catalog Number | Description | List Price |
|---|--|------------|
| NOMARSKI POLARIZATION INTERFEROMETER | | |
| 9 46 09 02 | Interferometer body, on slider, adjustable quartz double prism, rotary knob for altering the spacing of the interference fringes, lever for adjusting the system of interference fringes | \$ 821.00 |
| 9 46 41 02 | Interference Monochromatic Filter (546nm), in mount | 135.00 |
| Objectives, on slider, for use with Nomarski Interferometer only: | | |
| 9 22 54 51 | SPI 5.5/0.15 190/- | 215.00 |
| 9 22 65 57 | SPI 11/0.25 190/- IM | 286.00 |
| 9 22 57 57 | SPI 25/0.55 190/0 IM | 426.00 |
| 9 22 59 57 | Fluor 50/0.90 190/0 IM | 665.00 |
| 9 90 02 10 | Nomarski Interferometer Outfit | 2548.00 |
| NOTE: This equipment must be used in conjunction with a polarizer and analyzer. See "POLARIZING ACCESSORIES" above. | | |
| TOLANSKY MULTIPLE BEAM INTERFEROMETER | | |
| 9 46 13 21 | Basic unit, tilting stage plate, fine adjustment of the spacing and direction of the interference bands, specimen holder, signal lamp, swing-out holder for reference plates, connecting cable with plug and spacer for thin specimens | 1284.00 |
| 9 46 13 30 | Set of reference plates, R = 40% No. 9 46 13 42 R = 65% No. 9 46 13 33 R = 75% No. 9 46 13 34 R = 90% No. 9 46 13 35 R = 95% No. 9 46 13 36 | 232.00 |
| Lamp insert, with Hg spectral lamp: | | |
| 9 60 24 01 | Lamp holder | 126.00 |
| 9 86 00 18 | Mercury spectral lamp, 50V, 40W, Hg/10 | 118.00 |
| 9 62 16 02 | Power supply, with line cable, for 100 to 240V | 337.00 |
| 9 46 41 02 | Interference monochromatic filter (546nm), in mount | 135.00 |
| 9 02 44 42 | UV barrier filter | 13.00 |
| 9 90 52 12 | Multiple beam interferometer, according to Tolansky, with spectral mercury lamp insert | 2245.00 |
| NOTE: This equipment is for use with incident light objectives 2.8X to 11X (190mm) and objectives 3.2X to 12.5X (210mm) | | |
| Reference plates: | | |
| 9 46 13 31 | R = 10 %, plan | 76.00 |
| 9 46 13 32 | R = 40 %, plan | 42.00 |
| 9 46 13 33 | R = 65 %, plan | 42.00 |
| 9 46 13 34 | R = 75 %, plan | 46.00 |
| 9 46 13 35 | R = 90 %, plan | 51.00 |
| 9 46 13 36 | R = 95 %, plan | 51.00 |
| 9 46 13 37 | R = 98.5%, plan | 76.00 |
| For measuring the spacing of the interference bands: | | |
| 426C | Filar micrometer eyepiece 10X, with magnification compensator | 276.00 |
| OTHER ACCESSORIES | | |
| 9 18 65 01 | Mounting press, with adjustable stop, for mounting and aligning polished specimens with plasticine on object slides | 118.00 |
| 9 18 71 22 | Soft iron object slides, 26 X 76mm, 3 pieces | 13.00 |
| 9 48 16 01 | Incident light stage micrometer, of steel, scale 1mm, ruled to 0.01mm | 84.00 |
| EYEPIECES see page 11 | | |
| SPECIAL EYEPIECES see page 11 | | |
| MICROPROJECTION see page 14 | | |

MICROSPECTROPHOTOMETER for measurements in transmitted light

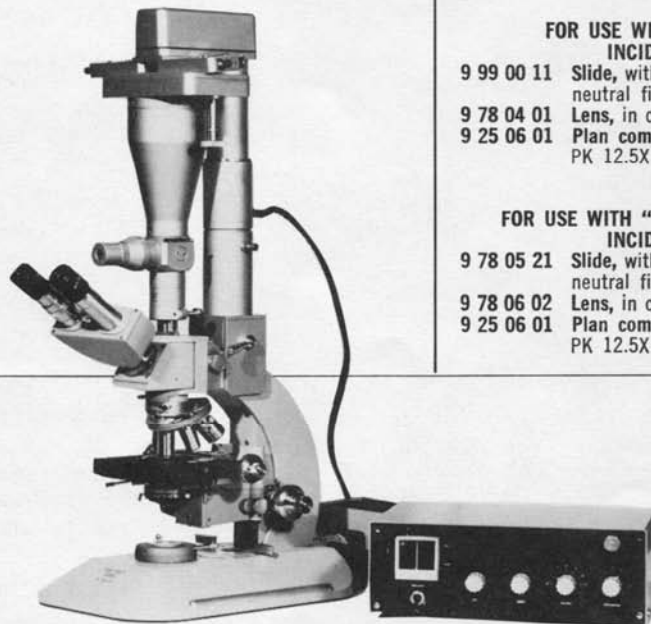
| MICROSPECTROPHOTOMETER | PHOTOMULTIPLIER AND CONTROL UNIT | SUPPLEMENTARY EQUIPMENT |
|---|---|---|
| MSPM | 10 | T1 |
| <p>9 78 01 23 Microspectrophotometer, with focusing telescope, turret with measuring diaphragms, interference wedge filter, adapter ring, housing for the photomultiplier, with cable and plug</p> <p>9 78 02 01 Photometer support, with clamping jaw and clamping sleeve</p> <p>9 78 01 24 Connecting tube to the microspectrophotometer</p> | <p>9 78 01 33 Photomultiplier XP 1010, cathode type S 11</p> <p>9 78 01 43 Control unit, illuminated scale indicator (scales linear and for extinction) provision for connection to a recorder or digital display instrument, input 100 or 200 mV (linear response) for 110, 125, 150, 200, 220 and 250 V A.C., 50/60 Hz.</p> | <p>9 78 05 21 Slide, with diaphragm turret and neutral filter</p> <p>9 99 00 11 Achromatic aplanatic condenser, N.A. = 1.35/MSPM, 6-lens condenser, centering mount, aperture-iris diaphragm with division, filter holder, condenser slide</p> <p>9 78 04 01 Lens, in centering mount</p> <p>9 25 06 01 Plan compensating eyepiece PK 12.5X</p> |

for measurements in incident light

| MICROSPECTROPHOTOMETER | PHOTOMULTIPLIER AND CONTROL UNIT | SUPPLEMENTARY EQUIPMENT |
|---|---|--|
| MSPM | 10 | R1 |
| <p>9 78 01 23 Microspectrophotometer, with focusing telescope, turret with measuring diaphragms, interference wedge filter, adapter ring, housing for the photomultiplier, with cable and plug</p> <p>9 78 02 01 Photometer support, with clamping jaw and clamping sleeve</p> <p>9 78 01 24 Connecting tube to the microspectrophotometer</p> | <p>9 78 01 33 Photomultiplier XP 1010, cathode type S 11</p> <p>9 78 01 43 Control unit, illuminated scale indicator (scales linear and for extinction) provision for connection to a recorder or digital display instrument, input 100 or 200 mV (linear response) for 110, 125, 150, 200, 220 and 250 V A.C., 50/60 Hz.</p> | <p style="text-align: center;">FOR USE WITH THE "LUX US"</p> <p>9 78 05 21 Slide, with diaphragm turret and neutral filter</p> <p>9 78 06 01 Lens, in centering mount</p> <p>9 25 06 01 Plan compensating eyepiece PK 12.5X</p> <p style="text-align: center;">R2</p> <p style="text-align: center;">FOR USE WITH "BINOLUX 3", XB0150W</p> <p>9 78 05 21 Slide, with diaphragm turret and neutral filter</p> <p>9 78 06 02 Lens, in centering mount</p> <p>9 25 06 01 Plan compensating eyepiece PK 12.5X</p> |

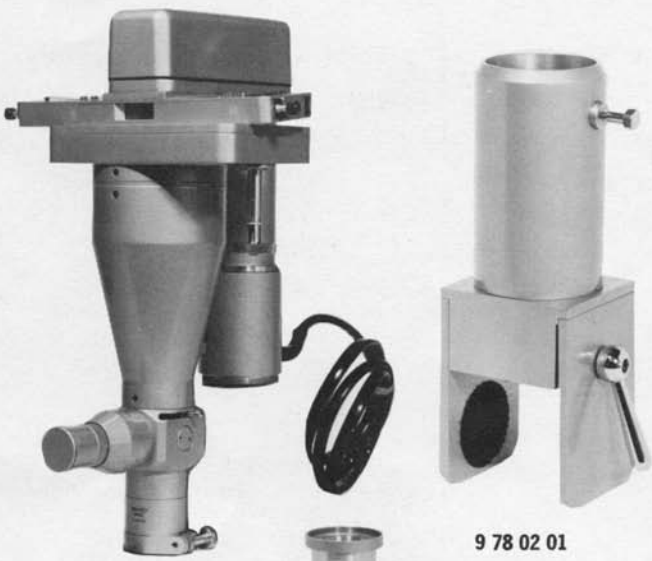
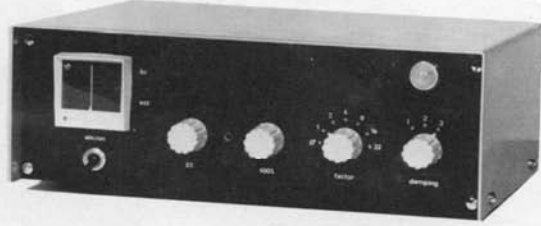






for measurements with extremely dark specimens

| MICROSPECTROPHOTOMETER | PHOTOMULTIPLIER AND CONTROL UNIT | SUPPLEMENTARY EQUIPMENT |
|---|--|---|
| MSPM | 10S | T1 |
| <p>9 78 01 23 Microspectrophotometer, with focusing telescope, turret with measuring diaphragms, interference wedge filter, adapter ring, housing for the photomultiplier, with cable and plug</p> <p>9 78 02 01 Photometer support, with clamping jaw and clamping sleeve</p> <p>9 78 01 24 Connecting tube to the microspectrophotometer</p> | <p>9 78 01 34 Photomultiplier XP 1010 special, cathode type S 11</p> <p>9 78 01 44 Control unit, of increased sensitivity, factor abt. 30X, illuminated scale indicator (scales linear and for extinction) provision for connection to a recorder or digital display instrument, input 100 or 200 mV (linear response) for 110, 125, 150, 200, 220 and 250 V A.C., 50/60 Hz.</p> | <p style="text-align: center;">TRANSMITTED LIGHT</p> <p>9 78 05 21 Slide, with diaphragm turret and neutral filter</p> <p>9 99 00 11 Achromatic aplanatic condenser, N.A. = 1.35/MSPM, 6-lens condenser, centering mount, aperture-iris diaphragm with division, filter holder, condenser slide</p> <p>9 78 04 01 Lens, in centering mount</p> <p>9 78 05 21 Plan compensating eyepiece PK 12.5X</p> <p style="text-align: center;">R1</p> <p style="text-align: center;">FOR USE WITH THE "LUX US" INCIDENT LIGHT</p> <p>9 99 00 11 Slide, with diaphragm turret and neutral filter</p> <p>9 78 04 01 Lens, in centering mount</p> <p>9 25 06 01 Plan compensating eyepiece PK 12.5X</p> <p style="text-align: center;">R2</p> <p style="text-align: center;">FOR USE WITH "BINOLUX 3", XB0150W INCIDENT LIGHT</p> <p>9 78 05 21 Slide, with diaphragm turret and neutral filter</p> <p>9 78 06 02 Lens, in centering mount</p> <p>9 25 06 01 Plan compensating eyepiece PK 12.5X</p> |



| Model | Catalog No. | List Price |
|-------------|-------------|-------------|
| MSPM 10 T1 | 9 90 00 36 | \$11,533.00 |
| MSPM 10 R1 | 9 90 00 38 | 11,111.00 |
| MSPM 10 R2 | 9 90 00 39 | 11,111.00 |
| MSPM 10S T1 | 9 92 99 41 | 14,605.00 |
| MSPM 10S R1 | 9 92 99 43 | 14,183.00 |
| MSPM 10S R2 | 9 92 99 45 | 14,183.00 |

MICROSPECTROPHOTOMETER PARTS and ACCESSORIES

| | Catalog Number | Description | List Price |
|---|----------------|--|------------|
|  <p>9 78 01 23</p> <p>9 78 01 24</p> <p>9 78 02 01</p> | | | |
|  <p>9 78 01 43</p> | | | |
|  <p>9 78 05 21</p> | | | |
|  <p>9 78 06 01</p> | | | |
|  <p>9 78 06 02</p> | | | |
|  <p>9 99 00 11</p> | | | |
|  <p>9 78 04 01</p> | | | |
|  <p>2051</p> | | | |
| | | MSPM | |
| | 9 78 01 23 | Microspectrophotometer, with focusing telescope, turret with measuring diaphragms, interference wedge filter, adapter ring, housing for the photomultiplier, with cable and plug | \$5535.00 |
| | 9 78 02 01 | Photometer support with clamping jaw and clamping sleeve | 231.00 |
| | 9 78 01 24 | Connecting tube | 21.00 |
| | | 10 | |
| | 9 78 01 33 | Photomultiplier XP 1010, cathode type S 11 | 779.00 |
| | 9 78 01 43 | Control unit, illuminated scale indicator (scales linear and for extinction) provision for connection to a recorder or digital display instrument, input 100 or 200 mV (linear response) for 110, 125, 150, 200, 220 and 250 V A.C., 50/60 Hz. | 3998.00 |
| | | 10S | |
| | 9 78 01 34 | Photomultiplier XP 1010 special, cathode type S 11 | 1368.00 |
| | 9 78 01 44 | Control unit of increased sensitivity, factor abt. 30X, illuminated scale indicator (scales linear and for extinction) provision for connection to a recorder or digital display instrument, input 100 or 200 mV (linear response) for 110, 125, 150, 200, 220 and 250 V A.C., 50/60 Hz. | 6481.00 |
| | | For examination of particularly dark specimens in the red spectral range the following photomultiplier is suggested. This is to be used in conjunction with the high sensitivity control unit, No. 9 78 01 44: | |
| | 9 78 01 35 | Photomultiplier XP 1016, cathode type S 20 | 3157.00 |
| | | SUPPLEMENTARY EQUIPMENT | |
| | 9 78 05 21 | Slide, with diaphragm turret and neutral filter | 244.00 |
| | 9 78 06 01 | Lens, in centering mount, for use with Lux US (incident light) | 168.00 |
| | 9 78 06 02 | Lens, in centering mount, for use with Binolux, XBO150 (incident light) | 168.00 |
| | 9 78 04 01 | Lens, in centering mount (transmitted light) | 135.00 |
| | 9 99 00 11 | Achromatic aplanatic condenser, N.A. = 1.35/MSPM, 6-lens condenser, centering mount, aperture-iris diaphragm with division, filter holder, condenser slide | 455.00 |
| | 9 25 06 01 | Plan compensating eyepiece, PK 12.5X | 135.00 |
| | 9 25 03 01 | Plan compensating eyepiece, PK 6.3X | 67.00 |
| | 9 78 02 38 | Comparison standard for transmitted light fluorescence | 84.00 |
| | 9 78 02 39 | Comparison standard for incident light fluorescence | 102.00 |
| | | Standards, for the determination of reflection: (with calibration sheet) | |
| | 9 78 13 01 | Reflection standard quartz glass R_{AIR} abt. 4% | 105.00 |
| | 9 78 13 02 | Reflection standard high-refrindex glass, (for coal determ.) R_{OIL} abt. 1.5% R_{AIR} abt. 10% | 168.00 |
| | 9 89 00 57 | Reflection standard silicium carbide R_{AIR} abt. 20% | 211.00 |
| | 9 89 00 58 | Reflection standard tungsten carbide R_{AIR} abt. 50% | 353.00 |
| | | For work with the "Lux US" light source a step transformer must be used in lieu of the regulating transformer (No. 9 00 09 17) | |
| | 2051 | Step transformer | 133.00 |
| | | Accessories for photomicrography through the Microspectrophotometer: | |
| | 9 78 09 01 | Intermediate piece, with focusing telescope with double cross-lines, sector shutter for "T", "B" and instantaneous exposures from 1 to 1/125 sec. | 1018.00 |
| | 9 85 00 01 | Cable release | 5.00 |
| | 9 95 00 07 | Lens flange, $p = 0.80X$, with clamping bayonet | 176.00 |
| | 9 50 04 01 | 35mm Camera back, with rapid advance, frame counter, film speed and film type scale | 250.00 |
| | 9 95 50 33 | Microspectrophotometer Photo Outfit | 1449.00 |

PHOTOMICROGRAPHIC EQUIPMENT

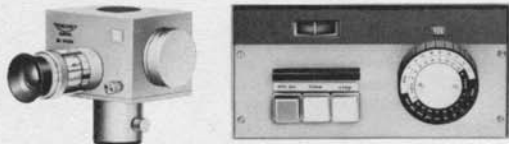
BASIC UNIT



REMICA III 9 95 00 09

Camera System for Manual Operation

- 9 18 63 21 Beam-splitter casing with lateral viewing and focusing telescope with double crosslines and negative-size frame, focusable eyepiece; sector shutter for "T", "B" and instantaneous exposures from 1 to 1/125 second
- 9 18 63 25 Adapter ring
- 9 85 00 01 Cable release
- 9 18 63 24 Neutral filter in slip-on mount



KAM ES 9 53 06 01

Camera System for Automatic Exposure

- 9 53 06 21 Intermediate camera assembly, swing-out beam-splitter, focusing telescope with swing-in neutral filter, electronic shutter for "T" and instantaneous exposures from 1 min. to 1/125 sec., synchronizing contact, connecting cable
- 9 03 80 01 Adapter ring
- 9 65 04 21 Control unit, exposure time indication from 1 hour to 1/125 sec., push-button control, timer unit for electronic shutter, line cable
- 9 65 04 22 Exposure meter detector

HYPHEN

FILM HOLDERS



35

35mm Camera Back

- 9 50 04 01 35 mm camera back with rapid transport lever, exposure counter, shutter and connecting bayonet
- 9 95 00 07 Lens fiange, additional lens 0.5X with clamping bayonet
For use with eyepieces: PK5X, PK6.3X, PK8X, PK10X, PK12.5X



3 1/4 x 4 1/4

3 1/4" x 4 1/4" Polaroid® 100

- 9 00 09 03 Camera body POLAROID® 100 on adapter
For use with eyepieces: PK8X, PK10X, PK12.5X



4 x 5

4 x 5 Film Back Adapter

- 9 00 09 22 4" x 5" Camera Back Adapter
For use with eyepieces: PK8X, PK10X, PK12.5X

| Model | Catalog No. | List Price |
|----------------------------|-------------|------------|
| Remica III - 35 | 9 95 00 12 | \$ 896.00 |
| Remica III - 3 1/4 x 4 1/4 | 9 00 09 10 | 773.00 |
| Remica III - 4 x 5 | 9 00 09 25 | 668.00 |
| Kam ES - 35 | 9 95 00 30 | 3150.00 |
| Kam ES - 3 1/4 x 4 1/4 | 9 00 09 20 | 3027.00 |
| Kam ES - 4 x 5 | 9 00 09 21 | 2922.00 |

COMPONENTS and ACCESSORIES

| | Catalog Number | Description | List Price |
|---|---|--|------------|
|  9 18 63 21 (shown with cable release) |  9 18 63 25 |  9 03 80 Q1 | |
|  9 53 06 21 (shown with detector) |  9 65 04 21 | | |
|  9 50 04 01 |  9 95 00 07 | | |
|  9 53 07 01 |  1051 | | |
|  9 00 09 03 | | | |
|  9 00 09 22 (shown with Polaroid 4" x 5" film holder)* |  9 85 00 07 | | |
| <p>REMICA III</p> | | | |
| | 9 18 63 21 | Beam-splitter casing | \$ 439.00 |
| | 9 18 63 25 | Adapter ring | 9.00 |
| | 9 85 00 01 | Cable release | 5.00 |
| | 9 18 63 24 | Neutral filter | 17.00 |
| | 9 95 00 09 | Remica III | 470.00 |
| <p>KAM ES</p> | | | |
| | 9 53 06 21 | Intermediate Camera Assembly | 1116.00 |
| | 9 03 80 01 | Adapter ring | 9.00 |
| | 9 65 04 21 | Control unit | 1540.00 |
| | 9 65 04 22 | Exposure meter detector | 59.00 |
| | 9 53 06 01 | Kam ES | 2724.00 |
| <p>SUPERIMPOSITION ATTACHMENT FOR USE WITH KAM ES</p> | | | |
| | 9 53 07 01 | Superimposition attachment, with projection optics, illumination attachment, lamp holder, low voltage bulb, 3 filter holders with green filter 2VG9 and neutral filter 2.5NG9, slide with sequential numbers 1 through 30, slide with arrow. | 757.00 |
| | 1051 | Step transformer | 42.00 |
| | 9 95 00 28 | Superimposition attachment outfit | 799.00 |
| <p>FILM HOLDERS AND OTHER ITEMS</p> | | | |
| | 9 50 04 01 | 35mm Camera Back | 250.00 |
| | 9 95 00 07 | Lens flange | 176.00 |
| | Lens flanges for 35mm cameras listed below and those with similar fittings: | | |
| | 9 95 00 01 | Leica with thread, Canon with thread | 100.00 |
| | 9 95 00 02 | Leica with bayonet | 151.00 |
| | 9 95 00 05 | Pentax | 100.00 |
| | - | Yashica | 100.00 |
| | - | Canon | 215.00 |
| | - | Minolta SRT | 164.00 |
| | - | Nikon F | 189.00 |
| | - | Nikorimat F | 189.00 |
| | - | Nikon M-35S (half frame) | 102.00 |
| | 9 00 09 03 | POLAROID® 100, 3 1/4" x 4 1/4" Camera Back on Adapter | 303.00 |
| | 9 00 09 22 | 4" x 5" Camera Back Adapter | 198.00 |
| | 9 85 00 07 | Double film cassette, for 4" x 5", 2 pieces | 26.00 |

*Please contact Polaroid Corporation for this film holder

PHOTOMICROGRAPHIC EQUIPMENT
PHOTOAUTOMATIC
FULLY AUTOMATIC CAMERA SYSTEM FOR 35 mm



9 65 03 01



9 50 03 21



9 50 04 02



9 03 80 01

| Catalog Number | Description | List Price |
|-----------------------|---|------------|
| PHOTOAUTOMATIC | | |
| 9 65 03 01 | Control unit , indication of exposure time, push-button control, impulse generator for time lapse exposures, exposure factor buttons .5X, 2X, 4X. | \$3232.00 |
| 9 50 03 21 | Camera body , with adjustable photographic eyepiece 6.3 - 10X, beam splitter system, focusing telescope with swing-out neutral filter, light detector for integrated and point measurements, special electromagnetic shutter from 1/250 sec. to 1 hr. Photographic objective with camera factor 0.5X, motor for automatic film transport, light signals, synchro-socket, connection cable. | 2168.00 |
| 9 50 04 02 | Interchangeable film magazine for 35 mm film, automatic light trap, frame counter, film speed and film type scale | 273.00 |
| 9 03 80 01 | Adapter ring | 9.00 |
| 9 95 00 21 | Photoautomatic | 5682.00 |

FILTERS

| Catalog Number | Description | List Price |
|--|---|------------|
| 30.8mm Diameter. For use with "Lux US" and "Binolux 3" Filter Holders | | |
| Filter slide, for light filter 30.8mm diameter | | |
| 9 02 86 01 | Filter slide, with 3 openings, cross section 9.5 x 36mm | \$ 21.00 |
| 9 02 86 02 | Filter slide, with 3 openings, cross section 5 x 36mm | 21.00 |
| 9 02 87 01 | Filter slide, with 5 openings, cross section 9.5 x 36mm | 33.00 |
| 9 02 87 02 | Filter slide, with 5 openings, cross section 5 x 36mm | 33.00 |
| Color and frosted glass | | |
| 9 02 44 33 | Daylight filter, bright 1.1 TG | 4.00 |
| 9 02 44 21 | Daylight filter, frosted 2 TG | 4.00 |
| 9 02 44 34 | Frosted glass 2 G 2 | 4.00 |
| Neutral filters | | |
| 9 02 44 29 | Neutral filter T ca. 10 % 1 NG 3 | 13.00 |
| 9 02 44 28 | Neutral filter T ca. 1 % 2 NG 3 | 13.00 |
| 9 02 44 43 | Neutral filter T ca. 0.1% 2.5 NG 9/h | 13.00 |
| 9 02 44 53 | Neutral filter, N1, T = 50 % 2 N 1 | 33.00 |
| 9 02 44 54 | Neutral filter, N2, T = 25 % 2 N 2 | 33.00 |
| 9 02 44 55 | Neutral filter, N4, T = 6.3% 2 N 4 | 33.00 |
| 9 02 44 56 | Neutral filter, N6, T = 1.6% 2 N 6 | 33.00 |
| Color filters | | |
| 9 02 44 24 | Red filter 2 RG 610 | 17.00 |
| 9 02 44 51 | Green filter, G1, 1.5 VG 9/h | 21.00 |
| 9 02 44 52 | Green Filter, G2, 1.5 (VG 9/N1)h | 33.00 |
| 9 02 44 23 | Green filter 2 VG 9/h | 33.00 |
| 9 02 44 25 | Blue filter 1 BG 12 + 1 GG 455 | 25.00 |
| Exciter filters | | |
| 9 02 44 27 | Blue filter 2 BG 12/h | 17.00 |
| 9 02 44 63 | Exciter filter 23 3 BG 12/h | 17.00 |
| 9 02 44 65 | Exciter filter 4.5 BG 12/h | 25.00 |
| 9 02 44 61 | Exciter filter 13 2x3 BG 12/h | 33.00 |
| 9 02 44 67 | Red subduing filter 2.5 BG 38/h | 21.00 |
| 9 02 44 62 | Exciter filter 22 1.5 UG 1/h | 17.00 |
| 9 02 44 64 | Exciter filter 2.5 UG 1/h | 21.00 |
| 9 02 44 66 | Exciter filter FITC | 131.00 |
| 9 02 44 60 | Exciter filter 11 3 UG 1/h + 2.5 BG 38/h | 42.00 |
| 9 02 44 70 | Violet exciter filter 5 (λ = 405nm) narrow-band | 261.00 |
| 9 02 44 71 | Green exciter filter 4 (λ = 546nm) narrow-band | 261.00 |
| 9 02 44 72 | Blue exciter filter 2.5 FITC-490 | 315.00 |
| UV - and blue barrier filters | | |
| 9 02 44 26 | Yellow filter 1 GG 455 | 13.00 |
| 9 02 44 42 | UV-barrier filter 1 GG 9/h | 13.00 |
| 9 02 44 41 | UV-barrier filter 5 GG 385 | 25.00 |
| 9 02 44 22 | Yellow filter 2 GG 495 | 13.00 |
| 9 02 44 46 | Correction filter C2, 4.5 UG 3/h + 1 GG 475 + 1 GG 9/h | 51.00 |
| 9 02 44 48 | Yellow filter 1 GG 475 | 13.00 |
| Heat absorbing filters | | |
| 9 02 44 35 | Heat absorbing filter 2 KG 2/h | 17.00 |
| 9 02 44 40 | Heat absorbing filter 4 KG 2/h | 17.00 |
| 9 02 44 47 | Heat absorbing UV barrier filter 5 GG 385 + 2 KG 1/h | 42.00 |
| Interference filters | | |
| 9 02 44 36 | Interference band filter (589nm) | 147.00 |
| 9 02 44 39 | Interference wide-band filter, (490-570nm) | 126.00 |
| Interference filter, in mount, for use in light well | | |
| 9 46 41 02 | Monochromatic filter, (546nm) | 135.00 |
| 9 46 41 23 | Blue exciter filter, FITC-490 | 357.00 |
| 9 46 41 04 | Violet exciter filter, (405nm) | 273.00 |
| 9 46 41 05 | Green exciter filter, (546nm) | 273.00 |

| Catalog Number | Description | List Price |
|---|--|------------|
| 18mm Diameter. For use with barrier filter slides, i.L. filter slides and i.L. fluorescence turrets. | | |
| Filter slide, for light filter 18mm diameter | | |
| 9 48 12 21 | Barrier filter slide, w/3 openings, cross sect. 7 x 28mm | \$ 33.00 |
| 9 48 13 31 | iL filter slide w/4 openings, cross sect. 7 x 22mm | 51.00 |
| LIGHT FILTERS, 18mm φ | | |
| Neutral filter | | |
| 9 02 43 02 | Neutral filter T ca. 10 % 1 NG 3 | 9.00 |
| 9 02 43 01 | Neutral filter T ca. 4 % 1 NG 9 | 9.00 |
| 9 02 43 03 | Neutral filter T ca. 0.2% 2 NG 9 | 9.00 |
| Exciter filter | | |
| 9 02 43 13 | Exciter filter, Blue 3 BG 12 | 13.00 |
| 9 02 43 12 | Red subduing filter 1 BG 38 | 13.00 |
| 9 02 43 14 | Red barrier filter 2.5 BG 38 | 13.00 |
| 9 02 43 11 | Exciter filter, UV 2 UG 1 | 13.00 |
| 9 02 43 18 | Red barrier filter 3.5 BG 38 | 25.00 |
| UV and Blue barrier filter | | |
| 9 02 43 21 | UV barrier filter 1 GG 9 | 13.00 |
| 9 02 43 24 | Blue barrier filter 2 OG 515 | 13.00 |
| 9 02 43 22 | Blue barrier filter 1.5 OG 530 | 13.00 |
| 9 02 43 26 | Green barrier filter 3 OG 590 | 21.00 |
| 9 02 43 23 | UV barrier filter 3 KV 418 | 21.00 |
| 9 02 43 25 | Blue barrier filter 1 GG 9 + 2 OG 515 | 25.00 |
| 9 02 43 27 | Selection interference barrier filter SAL 525 | 147.00 |
| 9 02 43 28 | Selection Interference barrier filter 3 (λ = 525nm) | 315.00 |
| 9 02 43 51 | Violet barrier filter (3 GG 9 + GG 2 + GG 9)/VG | 51.00 |
| 9 02 43 52 | Green barrier filter 3 OG 590/VG | 33.00 |
| 9 02 43 53 | Blue barrier filter 3 (GG 9 + OG 515)/VG | 38.00 |
| Interference exciter filter | | |
| 9 02 43 31 | Violet exciter filter (405nm) | 135.00 |
| 9 02 43 32 | Green exciter filter (546nm) | 135.00 |
| 9 02 43 33 | Blue exciter filter TAL 480 | 147.00 |
| 9 02 43 38 | Violet exciter filter 2 CAT 425 | 623.00 |
| 9 02 43 39 | Blue exciter filter 3.5 FITC 490 | 303.00 |
| 9 02 43 37 | Blue exciter filter 5.5 FITC 490+GG 400 | 315.00 |

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The equipment supplied may not agree in all details with our description or
illustrations because instruments are subject to modification and improvement.