

THE GREAT NAME IN OPTICS



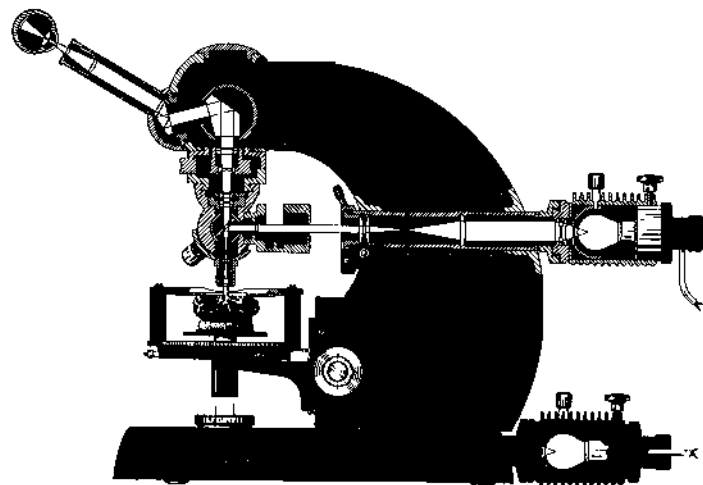
CARL ZEISS, INC.

ZEISS HOUSE, 444 FIFTH AVENUE, NEW YORK, N.Y. 10018, (212) 730-4400

PRICE LIST

EFFECTIVE OCTOBER 1, 1978

UNIVERSAL MICROSCOPE



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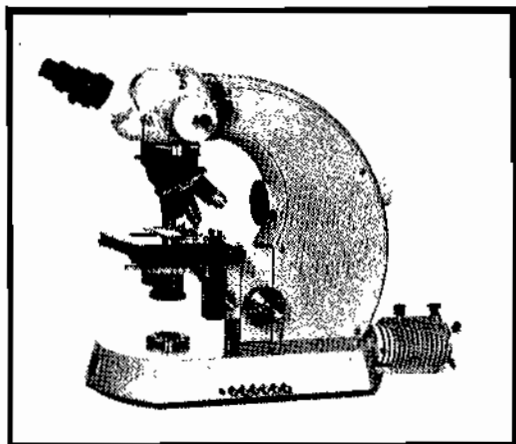
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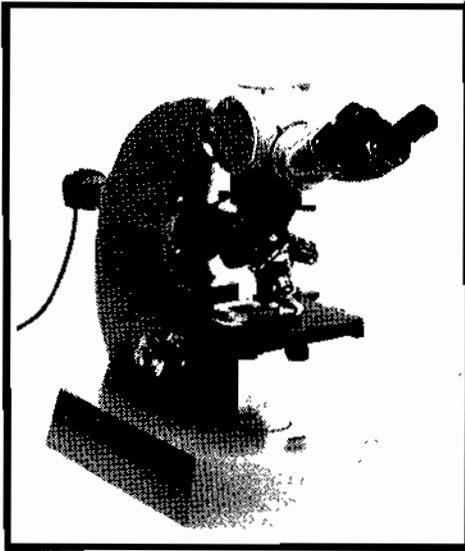
**UNIVERSAL MICROSCOPE SYSTEMS FOR
TRANSMITTED LIGHT**

47 16 91	Universal Microscope R with tube head for directing the light to the body tube or camera	\$	3,206.00
46 70 57-9904	Diaphragm insert		266.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00 ea.	310.00
46 78 26	Neutral filter NG9		22.50
46 78 35	Blue glass, clear		9.50
47 15 40	Clamp-on stage carrier		160.00
47 34 15	Square mechanical stage with graduations and low position controls		322.00
47 34 44	Specimen holder for 47 34 15 stage		76.00
47 93 01	Plastic dust cover		10.50
UNIVERSAL MICROSCOPE R BASIC EQUIPMENT			\$ 5,027.50
46 70 50	Collector tube for microscope base	\$	158.00
46 80 10-9903	Lamp socket 6V, 15W		47.00
91 01 12	Regulating transformer 0-8V, 30W, 50/60 Hz with power cable		103.00
38 00 18-1740	3 bulbs 6V, 15W with bayonet mount	\$7.00 ea.	21.00
COMPLETE 6V, 15W ILLUMINATOR			\$ 329.00
47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 61-9901	Centerable carrier with auxiliary lens		150.00
47 31 59	Revolving nosepiece 5x with Telan lens		382.00
46 52 57	Achromatic-aplanatic condenser 1.4Z (0.32)		460.00
46 01 10	Planachromat 2.5/0.08		162.00
46 03 10	Planachromat 6.3/0.16		324.00
46 05 10-9901	Planachromat 16/0.35		426.00
46 07 10	Planachromat 40/0.65		570.00
46 19 10	Planachromat 100/1.25 oil		789.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD WITH PLANACHROMATS			\$ 3,626.00
UNIVERSAL MICROSCOPE R, FOR TRANSMITTED LIGHT, COMPLETE			\$ 8,982.00



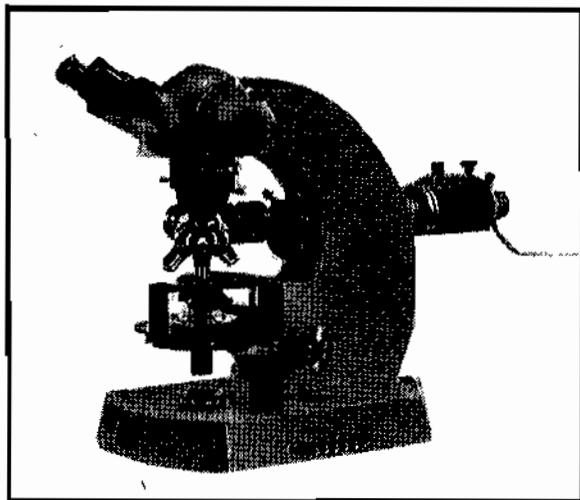
47 16 90	Universal Microscope stand without diaphragm insert	\$	2,434.00
46 70 57-9904	Diaphragm insert		286.00
47 16 45-9901	Tube head with Optovar		2,902.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00 ea.	310.00
46 78 26	Neutral filter NG9		22.50
46 78 35	Blue glass, clear		9.50
47 15 40	Clamp-on stage carrier		160.00
47 34 15	Square mechanical stage with graduations and low position controls		322.00
47 34 44	Specimen holder for 47 34 15 stage		76.00
47 93 01	Plastic dust cover		10.50
UNIVERSAL MICROSCOPE BASIC EQUIPMENT			\$ 7,157.50
46 70 50	Collector tube for microscope base	\$	158.00
46 80 10-9903	Lamp socket 6V, 15W		47.00
91 01 12	Regulating transformer 0-8V, 30W, 50/60 Hz with power cable		103.00
38 00 18-1740	3 bulbs 6V, 15W with bayonet mount	\$7.00 ea.	21.00
COMPLETE 6V, 15W ILLUMINATOR			\$ 329.00
47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 61-9901	Centerable carrier with auxiliary lens		150.00
47 31 59	Revolving nosepiece 5x with Tetan lens		382.00
46 52 57	Achromatic-aplanatic condenser 1.4Z (0.32)		460.00
46 01 10	Planachromat 2.5/0.08		162.00
46 03 10	Planachromat 6.3/0.16		324.00
46 05 10-9901	Planachromat 16/0.35		426.00
46 07 10	Planachromat 40/0.65		570.00
46 19 10	Planachromat 100/1.25 oil		789.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD WITH PLANACHROMATS			\$ 3,626.00
UNIVERSAL MICROSCOPE FOR TRANSMITTED LIGHT WITH TUBE HEAD AND OPTOVAR, COMPLETE			\$ 11,112.50

47 16 90	Universal Microscope stand without diaphragm insert	\$	2,434.00
46 70 57-9904	Diaphragm insert		266.00
47 16 40-9901	Tube head without Optovar (tube factor 1.25x)		1,397.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00 ea.	310.00
46 78 26	Neutral filter NG9		22.50
46 78 35	Blue glass, clear		9.50
47 15 40	Clamp-on stage carrier		160.00
47 34 15	Square mechanical stage with graduations and low position controls		322.00
47 34 44	Specimen holder for 47 34 15 stage		76.00
47 93 01	Plastic dust cover		10.50
UNIVERSAL MICROSCOPE BASIC EQUIPMENT			\$ 5,852.50
46 70 50	Collector tube for microscope base	\$	158.00
46 80 10-9903	Lamp socket 6V, 15W		47.00
91 01 12	Regulating transformer 0-8V, 30W, 50/60 Hz with power cable		103.00
38 00 18-1740	3 bulbs 6V, 15W with bayonet mount	\$7.00 ea.	21.00
COMPLETE 6V, 15W ILLUMINATOR			\$ 329.00
47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 61-9901	Centerable carrier with auxiliary lens		150.00
47 31 59	Revolving nosepiece 5x with Telan lens		382.00
46 52 57	Achromatic-aplanatic condenser 1.4Z (0.32)		460.00
46 01 10	Planachromat 2.5/0.08		162.00
46 03 10	Planachromat 6.3/0.16		324.00
46 05 10-9901	Planachromat 16/0.35		426.00
46 07 10	Planachromat 40/0.65		570.00
46 19 10	Planachromat 100/1.25 oil		789.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD WITH PLANACHROMATS			\$ 3,626.00
UNIVERSAL MICROSCOPE FOR TRANSMITTED LIGHT WITH TUBE HEAD WITHOUT OPTOVAR, COMPLETE			\$ 9,607.50



UNIVERSAL MICROSCOPE SYSTEMS FOR REFLECTED LIGHT

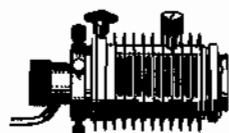
47 16 91	Universal Microscope R with tube head for directing the light to the body tube or camera	\$	3,206.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00	310.00
46 78 26	Neutral filter NG9		22.50
46 78 05	Green filter VG9		24.00
47 15 40	Clamp-on stage carrier		160.00
47 33 19	Stage for polished specimens		1,071.00
47 10 18	Focusing lever		70.00
47 93 01	Plastic dust cover		10.50
UNIVERSAL MICROSCOPE R BASIC EQUIPMENT			\$ 5,519.00
46 70 42	Connecting tube for reflected light	\$	65.00
46 72 57	Lamp housing 12V, 60W with collector		254.00
46 80 15	Lamp socket 60/1		166.00
38 00 18-2520	3 bulbs 12V, 60W	\$10.50 ea.	31.50
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 60W ILLUMINATOR			\$ 706.50
46 62 44	Vertical illuminator IIIC/45 with Quadruple revolving nosepiece.	\$	1,353.00
46 62 60-9903	Plane glass reflector HPL		144.00
46 62 62-9903	Darkfield reflector D		150.00
46 03 69-9904	Epiplan 8/0.20		298.00
46 05 69-9906	Epiplan 16/0.35		390.00
46 07 69	Epiplan 40/0.85		396.00
46 08 69	Epiplan 80/0.95		462.00
46 72 52	2 Filter holders for 32 mm dia. filters	\$14.00 ea.	28.00
46 78 35	Blue glass, clear		9.50
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD			\$ 3,381.50
UNIVERSAL MICROSCOPE R, FOR REFLECTED LIGHT, COMPLETE			\$ 9,607.00



47 16 90	Universal Microscope stand without diaphragm insert	\$	2,434.00
47 16 45-9901	Tube head with Optovar		2,902.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00	310.00
46 78 26	Neutral filter NG9		22.50
46 78 05	Green filter VG9		24.00
47 15 40	Clamp-on stage carrier		160.00
47 33 19	Stage for polished specimens		1,071.00
47 10 18	Focusing lever		70.00
47 93 01	Plastic dust cover		10.50
47 08 91	Cover plate for microscope base		n/c
UNIVERSAL MICROSCOPE BASIC EQUIPMENT			\$ 7,649.00
46 70 42	Connecting tube for reflected light	\$	65.00
46 72 57	Lamp housing 12V, 60W with collector		254.00
46 80 15	Lamp socket 60/1		166.00
38 00 18-2520	3 bulbs 12V, 60W	\$10.50 ea.	31.50
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 60W ILLUMINATOR			\$ 706.00
46 62 44	Vertical illuminator IIC/45 with Quadruple revolving nosepiece,	\$	1,353.00
46 62 60-9903	Plane glass reflector HPL		144.00
46 62 62-9903	Darkfield reflector D		150.00
46 03 69-9904	Epiplan 8/0.20		298.00
46 05 69-9906	Epiplan 16/0.35		390.00
46 07 69	Epiplan 40/0.85		396.00
46 08 69	Epiplan 80/0.95		462.00
46 72 52	2 Filter holders for 32 mm dia. filters	\$14.00 ea.	28.00
46 78 35	Blue glass, clear		9.50
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD AND DARKFIELD			\$ 3,381.50
UNIVERSAL MICROSCOPE WITH OPTOVAR FOR REFLECTED LIGHT, COMPLETE			\$ 11,736.50

47 16 90	Universal Microscope stand without diaphragm insert	\$	2,434.00
47 16 40-9901	Tube head without Optovar (tube factor 1.25x)		1,397.00
47 30 12	Inclined binocular body		645.00
46 40 42-9902	2 widefield eyepieces Kpl 10x	\$155.00	310.00
46 78 26	Neutral filter NG9		22.50
46 78 05	Green filter VG9		24.00
47 15 40	Clamp-on stage carrier		160.00
47 33 19	Stage for polished specimens		1,071.00
47 10 18	Focusing lever		70.00
47 93 01	Plastic dust cover		10.50
47 08 91	Cover plate for microscope base		n/c
UNIVERSAL MICROSCOPE BASIC EQUIPMENT			\$ 6,144.00
46 70 42	Connecting tube for reflected light	\$	65.00
46 72 57	Lamp housing 12V, 60W with collector		254.00
46 80 15	Lamp socket 60/1		166.00
38 00 18-2520	3 bulbs 12V, 60W	\$10.50 ea.	31.50
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 60W ILLUMINATOR			\$ 706.50
46 62 47	Vertical illuminator IID, consisting of: Quintuple revolving nosepiece, plane glass reflector for brightfield and fixed objectives		
	Epiplan 4/0.10		
	Epiplan 8/0.20		
	Epiplan 16/0.35		
	Epiplan 40/0.85		
	Epiplan 80/0.95	\$	3,251.00
46 72 52	2 Filter holders for 32 mm dia. filters	\$14.00 ea.	28.00
46 78 35	Blue glass, clear		9.50
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD			\$ 3,733.50
UNIVERSAL MICROSCOPE WITHOUT OPTOVAR FOR REFLECTED LIGHT, COMPLETE			\$ 10,584.00

ILLUMINATING SYSTEMS FOR TRANSMITTED LIGHT



46 70 40-9903	Connecting tube with relay lens for microscopes	\$	255.00
46 72 57	Lamp housing 12V, 60 W with collector		254.00
46 80 15	Lamp socket 60/1		166.00
38 00 18-2520	3 bulbs 12V, 60W	\$10.50 ea.	31.50
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 60W ILLUMINATOR			\$ 896.50



46 70 40-9903	Connecting tube with relay lens for microscopes	\$	255.00
§ 46 72 59-9901	Lamp housing 100		546.00
46 72 73-9901	Two lens collector 100		126.00
46 80 19-9901	Lamp socket 100		179.00
38 00 59-1660	2 Halogen bulbs 12V, 100W	\$8.00 ea.	16.00
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 100W HALOGEN ILLUMINATOR			\$ 1,312.00



47 20 15	Special illuminator with collector	\$	1,379.00
§ 47 25 15	Lamp housing with focusing device		649.00
46 72 66	Collector for lamp housing		110.00
38 00 18-4080	CSI burner 250W		183.00
46 80 25	Lamp socket for CSI burner		154.00
91 00 39	AC power supply		284.00
46 78 32	Heat reflection filter (Calflex)		55.00
46 72 57	Lamp housing 12V, 60W with collector		254.00
46 80 15	Lamp socket 60/1		166.00
38 00 18-2520	3 bulbs 12V, 60W	\$10.50 ea.	31.50
91 01 03	Regulating power supply with voltmeter and power cable		190.00
47 93 06	Large dust cover for special illuminator and microscope		25.00
COMPLETE SPECIAL ILLUMINATOR WITH CSI BURNER AND 12V, 60W LAMP			\$ 3,480.50

§ Optional bulbs, sockets and power supplies for No. 47 25 15 lamp housing and 46 72 59-9901 lamp housing 100 are listed on Page 5.9.

ILLUMINATING SYSTEMS FOR REFLECTED LIGHT

46 70 42	Connecting tube for reflected light	\$	65.00
46 72 59-9901	Lamp housing 100		546.00
46 72 73-9901	Two lens collector 100		126.00
46 80 19-9901	Lamp socket 100		179.00
38 00 59-1660	2 Halogen bulbs 12V, 100W	\$8.00 ea.	16.00
91 01 03	Regulating power supply with voltmeter and power cable		190.00
COMPLETE 12V, 100W HALOGEN ILLUMINATOR			\$ 1,122.00
46 70 42	Connecting tube for reflected light	\$	65.00
46 70 43	Heat protection holder		235.00
46 70 46	Connecting piece to use large lamp housing on small lamp mount		218.00
47 25 10	Lamp housing with collector		604.00
46 80 25	Lamp socket for CSI burner		154.00
38 00 18-4080	CSI burner 250W		183.00
91 00 39	AC power supply		284.00
COMPLETE SPECIAL ILLUMINATOR FOR REFLECTED LIGHT WITH CSI 250W BURNER			\$ 1,743.00

(Continued on page 5.9)

OPTIONAL BULBS, SOCKETS AND POWER SUPPLIES FOR 47 25 15 LAMP HOUSING

MERCURY BURNER HBO 200W WITH DC POWER SUPPLY

91 00 50	2 Mercury burners HBO 200W/2DC	\$100.00 ea. \$	200.00
46 80 28-9999	Lamp socket for HBO 200W/4		370.00
91 01 04	DC power supply for mercury burner for connection to 110V, AC		814.00
46 72 93	Concave mirror for lamp housing		34.00
MERCURY BURNER WITH DC POWER SUPPLY			\$ 1,418.00

XENON BURNER XBO 150 W WITH POWER SUPPLY

38 00 44-7390	2 Xenon burners XBO 150/1	\$185.00 ea.	370.00
46 80 27-9999	Lamp socket for XBO 150/1		398.00
91 01 04	DC power supply for Xenon burner for connection to 110V, AC		814.00
46 72 93	Concave mirror for lamp housing		34.00
XENON BURNER WITH POWER SUPPLY			\$ 1,616.00

OPTIONAL BULBS, SOCKETS AND POWER SUPPLIES FOR 100W LAMP HOUSING

38 16 19	Mercury burner HBO 50	\$	100.00
46 80 32-9902	Lamp socket for Mercury burner		273.00
46 72 74-9902	Three-lens collector 100		155.00
91 00 70	Power supply for Mercury burner		215.00
			\$ 743.00
91 01 43	Mercury burner HBO 50 W/L1 DC	\$	100.00
91 01 38	Lamp socket for HBO 50 DC		330.00
46 72 74-9902	Three-lens collector 100		155.00
91 01 35	Power supply for HBO 50 DC		760.00
			\$ 1,345.00
38 00 18-4060	Mercury burner HBO 100W	\$	120.00
46 80 30-9999	Lamp socket for HBO 100W		276.00
46 72 74-9902	Three-lens collector 100		155.00
91 01 44	DC power supply for HBO 100		985.00
			\$ 1,536.00
91 01 42	Xenon burner XBO 75 W2/DC	\$	140.00
46 80 21-9999	Lamp socket for XBO 75 DC		300.00
46 72 76	Four-lens collector		330.00
91 01 35	Power supply for XBO 75 DC		760.00
			\$ 1,530.00

OPTICAL EQUIPMENT FOR TRANSMITTED LIGHT

47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 61-9901	Centerable carrier with auxiliary lens		150.00
47 31 59	Revolving nosepiece 5x with Telan lens		382.00
46 52 77	Achromatic-aplanatic phase/darkfield condenser VZ(1.4)		860.00
46 29 29	Phase contrast mounting medium		22.00
46 03 10	Planachromat 6.3/0.16 (for brightfield only)		324.00
46 05 21	Neofluar 16/0.40 Ph		611.00
46 06 21	Neofluar 25/0.60 Ph		671.00
46 07 21	Neofluar 40/0.75 Ph		683.00
46 19 21-9903	Neofluar 100/1.30 Ph oil		834.00

**COMPLETE OPTICAL EQUIPMENT FOR BRIGHTFIELD
AND PHASE CONTRAST WITH NEOFLUARS**

\$ 4,900.00

47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 65-9902	Centerable carrier with auxiliary lens and rotatable polarizer		526.00
47 31 57	Revolving nosepiece 5x Pol with Telan lens		457.00
46 52 85	Achromatic-aplanatic phase interference contrast condenser VZ(1.4)		2,230.00
47 36 63	Simple analyzer slider		383.00
47 37 04	Retardation plate X		146.00
46 03 10	Planachromat 6.3/0.16 (not for DIC)		324.00
46 05 10-9901	Planachromat 16/0.35		426.00
47 45 51	DIC slider for Planachromat 16		210.00
46 07 10	Planachromat 40/0.65		570.00
47 45 71	DIC slider for Planachromat 40		210.00
46 19 10	Planachromat 100/1.25 oil		789.00
47 45 91	DIC slider for Planachromat 100		210.00
47 44 65	4 Intermediate rings for DIC sliders	\$121.00 ea.	484.00

**COMPLETE OPTICAL EQUIPMENT FOR
INTERFERENCE CONTRAST (DIC)**

\$ 7,328.00

47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 61-9901	Centerable carrier with auxiliary lens		150.00
47 31 59	Revolving nosepiece 5x with Telan lens		382.00
46 55 00	Ultra condenser 1.2/1.4 (0.75-1.0)		285.00
46 55 42	Intermediate piece Z		46.00
47 72 18	Filter slide insert without excitation filters		343.00
46 78 85	Red-suppressing filter BG38, 32 x 2.5 mm		37.00
46 78 81	Excitation filter UG5, 32 x 2 mm		50.00
46 78 87	Excitation filter UG1, 32 x 1.5 mm		24.00
46 78 88	Excitation filter BG3, 32 x 2.5 mm		24.00
46 78 89	Excitation filter BG12, 32 x 3 mm		24.00
47 25 47	Insert with barrier filters (41-colorless, 50-orange, 58-red, 44-yellow-green, 47-yellow, 53-orange)		426.00
46 03 20	Neofluar 6.3/0.20		348.00
46 04 20	Neofluar 10/0.30		399.00
46 05 20	Neofluar 16/0.40		456.00
46 07 20	Neofluar 40/0.75		540.00
46 19 16	Planachromat 100/1.25 oil with iris		1,259.00

**COMPLETE OPTICAL EQUIPMENT FOR
FLUORESCENCE MICROSCOPY WITH NEOFLUARS**

\$ 5,156.00

46 62 49-9903	Vertical illuminator IIIRS for Epi excitation without dichroic reflectors and filters	\$	2,717.00
48 77 02-9902	Exciter-barrier filter and reflector combination, UV exciter (Catecholamine)		274.00
48 77 05-9903	Exciter-barrier filter and reflector combination, Violet exciter (Quinacrine Mustard)		822.00
48 77 16-9901	Exciter-barrier filter and reflector combination, Blue exciter (FITC)		528.00
48 77 14-9900	Exciter-barrier filter and reflector combination, Green exciter (Rhodamine)		852.00
47 20 71	Insert with aperture diaphragm		445.00
ADDITIONAL ACCESSORIES FOR EPI-EXCITATION			\$ 5,638.00
(Neofluar objectives listed with transmitted light fluorescence equipment page 5.10 are to be used with these accessories)			

*Note: The special illuminator detailed on page 5.8 is recommended for
fluorescence. The mercury burner HBO 200W with power supply and
lamp socket is to be substituted for the CSI 250W burner, lamp socket and
power supply listed with the special illuminator:*

47 15 58-9901	Attachable condenser carrier	\$	363.00
47 08 65-9902	Carrier with centerable auxiliary lens and polarizer		526.00
47 31 57	Revolving nosepiece 5x Pol with Telan lens		457.00
46 52 62	Condenser 0.9Z Pol with swing-out front lens		290.00
47 36 63	Simple analyzer slider		383.00
46 01 18	Planachromat 2.5/0.08 Pol Z		385.00
46 04 08	Achromat 10/0.22 Pol Z		370.00
46 06 28	Neofluar 25/0.60 Pol Z		683.00
46 07 08	Achromat 40/0.85 Pol Z		540.00
46 19 08	Achromat 100/1.25 Pol Z, oil		565.00
COMPLETE OPTICAL EQUIPMENT FOR TRANSMITTED POLARIZED LIGHT			\$ 4,582.00

Additional equipment for polarized light:

Substitute the following for the stage which is included in the basic unit:

47 34 66	Ball bearing rotating stage 66 Pol	\$	1,081.00
47 33 25-9903	Attachable mechanical stage Pol with graduation, in case		558.00

OPTICAL EQUIPMENT FOR REFLECTED LIGHT

46 62 37	Vertical illuminator IIC	\$	920.00
46 62 60-9903	Plane glass reflector HPL		144.00
46 62 62-9903	Darkfield reflector D		150.00
46 72 52	2 Filter holders for 32 mm dia. filters	\$14.00 ea.	28.00
46 78 35	Blue glass, clear		9.50
46 78 26	Neutral filter NG9		22.50
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
46 02 69-9901	Epiplan 4/0.10 HD		264.00
46 05 69-9906	Epiplan 16/0.35 HD		390.00
46 07 69	Epiplan 40/0.85 HD		396.00
46 08 69	Epiplan 80/0.95 HD		462.00
46 62 55	4 Fixed change rings	\$43.00 ea.	172.00
COMPLETE OPTICAL EQUIPMENT FOR BRIGHT AND DARKFIELD			\$ 3,403.00

46 62 37	Vertical illuminator IIC	\$	920.00
46 62 65	Plane glass reflector HPL-Pol		472.00
46 72 52	2 Filter holders for 32 mm-dia. filters	\$14.00 ea.	28.00
47 36 16	Epi polarizer with scale		336.00
46 78 32	Heat reflection filter (Calflex)		55.00
47 36 62	Rotatable analyzer, 360°		1,046.00
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
47 44 92-9904	Interference attachment I		421.00
46 20 02	Epiplan 8/0.20 Pol		450.00
47 44 93-9904	Interference attachment II		421.00
46 20 03	Epiplan 16/0.36 Pol		570.00
47 44 94-9904	Interference attachment III		421.00
46 20 04	Epiplan 40/0.85 Pol		754.00
47 44 95-9905	Interference attachment IV		421.00
46 20 80	Epiplan 80/0.95 Pol		825.00
46 62 58	4 Fixed change rings	\$38.00 ea.	152.00
COMPLETE OPTICAL EQUIPMENT FOR INTERFERENCE CONTRAST AFTER NOMARSKI (CNRS)			\$ 7,737.00
46 62 37	Vertical illuminator IIC	\$	920.00
46 62 61	Prism reflector HPr Pol		207.00
46 62 60-9903	Plane glass reflector HPL		144.00
46 72 52	2 Filter holders for 32 mm dia. filters	\$14.00 ea.	28.00
46 78 35	Blue glass, clear		9.50
46 78 26	Neutral filter NG9		22.50
47 36 16	Epi polarizer with scale		336.00
47 20 71	Insert with aperture diaphragm for vertical illumination		445.00
46 20 01	Epiplan 4/0.10 Pol		395.00
46 20 02	Epiplan 8/0.20 Pol		450.00
46 20 03	Epiplan 16/0.35 Pol		570.00
46 20 04	Epiplan 40/0.85 Pol		754.00
46 20 05-9903	Epiplan 100/1.25 Pol oil		1,085.00
46 62 56	5 Centering change rings	\$144.00 ea.	720.00
COMPLETE OPTICAL EQUIPMENT FOR REFLECTED POLARIZED LIGHT			\$ 6,086.00

Note: for additional accessories for polarized light see page 5.18

The objectives included in the complete optical equipment for transmitted and reflected light on the preceding pages are suggested for optimum results. For a complete comprehensive listing of all objectives and eyepieces for Zeiss Microscopes, request our price list "Optical Systems for the Microscope."

BODY TUBES

47 30 00	Inclined monocular tube, 25 mm dia.	\$	118.00
47 30 24	Straight monocular phototube M		183.00
47 30 31	Large inclined monocular tube Pol, with Bertrand lens		717.00
47 30 35	Inclined binocular tube Pol		1,031.00

ACCESSORIES FOR TRANSMITTED LIGHT SYSTEMS

Nosepieces

47 31 69	Revolving nosepiece 7x with Telan lens	\$	694.00
§ 47 31 55	Revolving nosepiece 5x for widefield observation with Telan lens 0.63		647.00
§ 47 31 65	Revolving nosepiece 7x for widefield observation with Telan lens 0.63		958.00

§ **Note:** To be used only with flatfield objectives

Condensers

46 52 52	Condenser 0.9Z with swing-out front lens	\$	152.00
46 52 53	Condenser 1.3Z with swing-out front lens		210.00
46 52 57	Achromatic-aplanatic condenser 1.4Z (0.32)		460.00
46 52 62	Condenser 0.9Z Pol with swing-out front lens		290.00
46 52 63	Condenser 1.3Z Pol with swing-out front lens		350.00
46 52 82-9906	Phase condenser IIZ Pol (0.9) with swing-out front lens		1,009.00
46 52 70-9906	Phase condenser IIZ with swing-out front lens		680.00
46 52 72	Achromatic-aplanatic phase condenser IVZ/7		800.00
§§ 46 52 77	Achromatic-aplanatic phase darkfield condenser VZ (1.4)		860.00

§§ **Additional front lenses available (for brightfield only)**

46 52 55	Front lens 0.63	\$	70.00
46 52 56	Front lens 0.9		154.00

Darkfield Condensers

46 55 00	Ultra-condenser 1.2/1.4 (0.75-1.0)	\$	285.00
46 55 42	Intermediate piece Z		46.00
		\$	331.00
46 55 05	Dry darkfield condenser 0.8/0.95 (0.6-0.75)	\$	273.00
46 55 42	Intermediate piece Z		46.00
		\$	319.00
46 55 06	Dry darkfield condenser 0.7/0.85 (0.4-0.6)	\$	207.00
46 55 42	Intermediate piece Z		46.00
		\$	253.00

ACCESSORIES FOR REFLECTED LIGHT SYSTEMS

§ 46 62 46	Vertical illuminator IIIC with quadruple revolving nosepiece	\$	1,100.00
46 62 60-9903	Plane glass reflector HPL		144.00
46 62 62-9903	Darkfield-reflector D		150.00
46 72 52	2 Filter holders 32 mm dia. \$14.00 ea.		28.00
47 20 71	Insert for vertical illumination with aperture diaphragm		445.00
	VERTICAL ILLUMINATOR IIIC FOR BRIGHTFIELD AND DARKFIELD WITH HD OBJECTIVES	\$	1,867.00

The IIIC Vertical Illuminator can be used in place of the IIC Vertical Illuminator. If a substitution is made the 46 62 58 fixed change rings are not required. If it is used with the interference attachments a No. 46 29 96 intermediate ring at \$15.00 ea. will be required with each attachment.

§ **OPTIONAL**

46 62 44	Vertical illuminator III C/45		1,353.00
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46 62 45	Vertical illuminator IIIC for widefield with quadruple revolving nosepiece	\$	1,115.00
46 62 60-9903	Plane glass reflector HPL, widefield		144.00
46 62 62-9903	Darkfield reflector D, widefield		150.00
46 72 52	2 Filter holders 32 mm dia.	\$14.00 ea.	28.00
47 20 71	Insert for vertical illumination with aperture diaphragm		445.00

VERTICAL ILLUMINATOR IIIC FOR WIDEFIELD \$ 1,882.00

46 60 30	45° vertical illuminator with two S-Epiplan 4.0.10 objectives and field diaphragm turret	\$	3,545.00
47 20 71	Insert for vertical illumination with aperture diaphragm		529.00

45° VERTICAL ILLUMINATOR \$ 4,074.00

Additional objectives for 45° illuminator

42 04 06	Objective S-Epiplan 10/0.22	\$	300.00
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ACCESSORIES FOR VERTICAL ILLUMINATORS

For Vertical Illuminator IIC and IIIC

46 62 60-9903	Plane glass reflector HPL	\$	144.00
46 62 62-9903	Darkfield reflector D		150.00
46 62 65	Plane glass reflector HPL-Pol		472.00

MULTIPLE BEAM INTERFERENCE EQUIPMENT

47 44 20	Multiple beam interference equipment in case	\$	1,189.00
47 33 19-9904	Special autoleveling stage for multiple beam interference		1,071.00
47 15 40	Clamp-on stage carrier		160.00
47 44 40	Reference Plate R = 04		36.00
47 44 41	Reference Plate R = 15		36.00
47 44 42	Reference Plate R = 35		36.00
47 44 43	Reference Plate R = 80		36.00
46 78 08	Interference line filter 546, 32 x 3 mm		179.00

MULTIPLE BEAM INTERFERENCE EQUIPMENT \$ 2,743.00

46 70 42	Connecting tube	\$	65.00
46 72 59-9901	Lamp housing 100W without collector		546.00
46 72 74-9902	Three lens collector 100		155.00
46 80 32-9902	Lamp socket for HBO 50		273.00
38 16 19	2 Mercury burners HBO 50	\$100.00 ea.	200.00
91 00 70	Power supply for mercury burner		215.00

MERCURY BURNER HBO 50 FOR REFLECTED LIGHT \$ 1,454.00

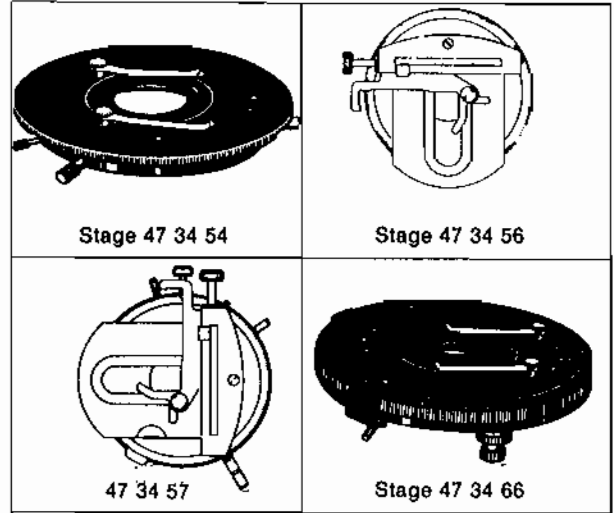
MULTIPLE BEAM INTERFERENCE EQUIPMENT COMPLETE WITH MERCURY BURNER HBO 50 \$ 4,197.00

Also required for multiple beam interference attachment: LD-Epiplan 16 and 40x objectives with interference attachments on page 5.22.

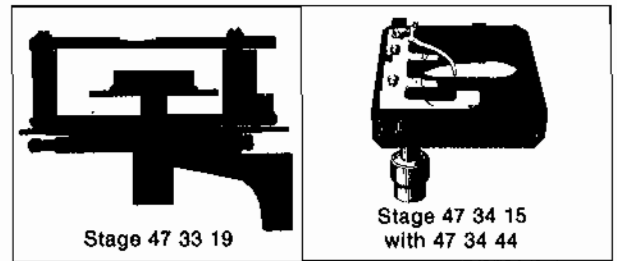
MICROSCOPE STAGES

47 15 40 Clamp-on stage carrier \$ 160.00

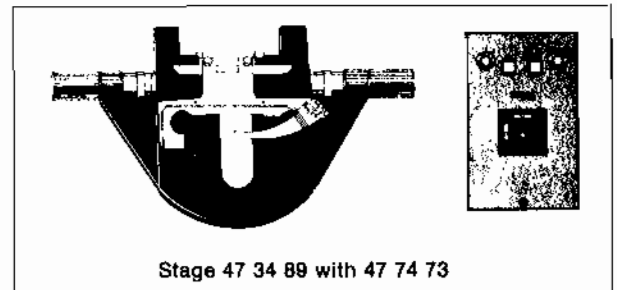
47 34 54	Rotating mechanical stage 54 with centering device	\$ 570.00
47 34 56	Rotating mechanical stage 56 with centering device	\$ 1,250.00
47 34 57	Rotating mechanical stage 57 with graduated periphery, with centering device	\$ 1,559.00
47 34 66	Ball bearing rotating stage 66 Pol	\$1,081.00
47 33 25-9903	Attachable mechanical stage Pol	\$558.00
		<u>\$ 1,639.00</u>



47 33 19	Stage for polished specimens with centering device and 20 mm insert	\$ 1,071.00
47 34 15	Square mechanical stage with graduations and low position controls	\$ 322.00
47 34 44	Specimen holder	76.00
		<u>\$ 398.00</u>



47 34 89	Motorized screening stage x + y	\$1,938.00
38 00 74-0160	Power cable, 110V	\$11.50
47 74 73	Control panel	\$1,230.00
		<u>\$ 3,179.50</u>
Optional 47 74 70	Foot control panel for 47 34 89	\$ 276.00



LUMINAR ACCESSORIES FOR LOW POWER PHOTOGRAPHY



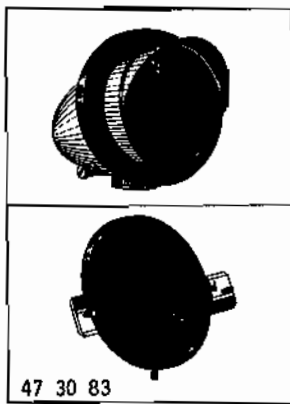
47 20 50-9904	Luminar head for Standard Universal and Photo-Microscope (with M42 x 0.75 thread for T2 adapter)	\$ 673.00
46 70 90	Auxiliary lens B (for diaphragm insert in microscope base)	36.00
	LUMINAR HEAD FOR TRANSMITTED LIGHT WITHOUT CAMERA BACK	\$ 709.00

ACCESSORIES FOR REFLECTED LIGHT DARKFIELD ILLUMINATION

47 20 65	Holder for Epi-illumination for Universal and Photo-Microscope	\$ 241.00
46 72 55	2 Lamp housings with collector (clear) for low voltage lamp	\$158.00 ea. 316.00
46 72 51	2 Lamp holders with filter receptacle plus iris for low voltage lamp	\$102.00 ea. 204.00
46 80 10-9903	2 Lamp sockets 6V, 15W	\$47.00 ea. 94.00
38 00 18-1740	4 Bulbs 6V, 15W with bayonet mount	\$7.00 ea. 28.00
91 01 12	Regulating transformer with voltmeter 0-8V, 30W, 50/60 Hz with power cable	103.00
	OBLIQUE ILLUMINATOR	\$ 986.00
46 72 52	2 Filter holders for filters of 32 mm dia.	\$14.00 ea. \$ 28.00
46 78 35	2 Blue glass (clear), 32 mm dia.	\$9.50 ea. 19.00
47 61 76	Extension-arm with clamp	74.00

Catalog Number	Luminar Focal Length/ Aperture d/f	Image Scale On Film	Maximum Field Coverage mm	Transmitted Light Only! Luminar Lens Condenser	\$
47 25 51	Holder for Luminars 16-40 mm				120.00
47 25 53	Filter Holder w/rectangular Mask				28.00
46 25 11 46 55 61 46 55 42	16 mm/1:2.5	16 - 14:1	2.6 x 1.7	Condenser 1 Intermediate Piece Z	500.00 48.00 46.00
46 25 13 46 55 62 46 55 42	25 mm/1:3.5	14 - 8:1	4.5 x 3	Condenser 2 Intermediate Piece Z	415.00 48.00 46.00
46 25 15 46 55 63 46 55 42	40 mm/1:4.5	8 - 4:1	9 x 6	Condenser 3 Intermediate Piece Z	360.00 48.00 46.00
47 25 52	Holder for Luminar 63 mm				110.00
46 25 17 46 55 64 46 55 80	63 mm/1:4.5	4 - 2:1	18 x 12	Condenser 4 Attachment Lens 4	390.00 78.00 46.00

FOR PROJECTION ON 6" SCREEN AND 4 x 5 PHOTOGRAPHY



47 30 85	Projection attachment for Universal and Photo-Microscope	\$	597.00
47 30 81	Screen insert		189.00
PROJECTION ATTACHMENT COMPLETE			\$ 786.00

47 30 85	Projection attachment for Universal and Photo-Microscope	\$	597.00
47 30 83	Ground glass insert with scale		564.00
PROJECTION ATTACHMENT WITH MEASURING SCALE			\$ 1,161.00

47 30 85	Projection attachment for Universal and Photo-Microscope	\$	597.00
47 30 87	Glarex projection screen		1,345.00
39 25 72	Transformer for Glarex		68.00
38 00 74-0160	Power cable 110V input-output		11.50

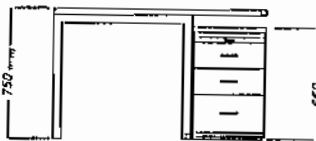


HIGH RESOLUTION PROJECTION ATTACHMENT			\$ 2,021.50
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47 30 20	Straight monocular tube 25 mm dia.	\$	96.00
47 78 50	Deflecting prism		172.00
46 49 10	Eyepiece clamping ring 25 mm dia.		19.00

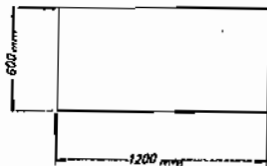
PROJECTION PRISM FOR MICROPROJECTION EYEPIECES			\$ 287.00
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FOR 4" x 5" PHOTOGRAPHY



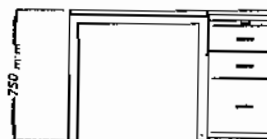
47 30 85	Projection attachment for Universal and Photo-Microscope	\$	597.00
47 30 84	Photo insert 4" x 5"/9 x 12 cm		526.00
COMPLETE 4" x 5" CAMERA ATTACHMENT			\$ 1,123.00

TABLES FOR UNIVERSAL MICROSCOPE



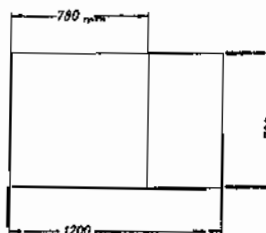
47 90 25	Table frame	\$	183.00
47 90 32	Table top (1200 x 600 mm)		218.00
47 90 29	One pair of connecting pieces for 47 90 41 ..		12.00
47 90 42	Cabinet with three drawers, 650 mm high		790.00
47 90 18	Accessory inserts for drawers		183.00

TABLE 600 x 1200 x 750 MM COMPLETE			\$ 1,386.00
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47 90 25	Table frame	\$	183.00
47 90 31	Table top (780 x 780 mm)		192.00
47 90 29	One pair of connecting pieces for 47 90 41 ..		12.00
47 90 41	Cabinet with 3 drawers - 750 mm high		971.00
47 90 18	Accessory inserts for drawers		183.00

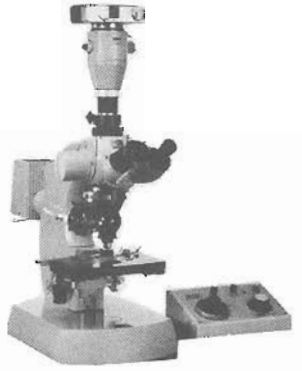
TABLE 780 x 780 x 750 MM COMPLETE			\$ 1,541.00
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47 90 14	Lower wooden insert for Luminar equipment for 47 90 41	\$	175.00
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MICROHARDNESS TESTER

47 40 41	Microhardness Tester I including galvanometer unit, monocular draw tube, measuring eyepiece, polarizer, analyzer, interference contrast slider, vertical illuminator, Bertrand lens, object micrometer, balance with weight and tweezers, mirror, stage with centering device and stage carrier ultra-fine adjustment and coupling piece, cover plate, case	\$	12,513.00
Required in addition:			
47 33 25-9903	Attachable mechanical stage Pol with graduation		558.00
§ 47 40 45	Vickers pyramid with Neofluar 50/0.9		1,836.00
			14,907.00
MICROHARDNESS TESTER I, COMPLETE..... \$			
§ OPTIONAL			
47 40 46	Knoop pyramid with Neofluar 50/0.9	\$	2,133.00
SPARE PARTS:			
47 40 94	Ultra-fine adjustment	\$	298.00
47 40 93	Coupling piece		210.00
48 00 05	Microhardness chart (Knoop)		25.00
LIGHT FILTERS (ALL 32 MM DIA.)			
Absorption filters			
46 78 00	Blue filter BG 23	\$	24.00
46 78 10	Yellow filter GG 14		24.00
46 78 11	Yellow filter GG 3		24.00
46 78 15	Orange filter OG 3		24.00
46 78 20	Red filter RG 2		24.00
46 78 05	Green filter VG 9, 32 x 3 mm		24.00
46 78 35	Blue glass (clear)		9.50
46 78 37	Ground glass (white)		5.00
46 78 26	Neutral filter NG 9		22.50
Interference filters			
46 78 06	Interference filter, green	\$	90.00
46 78 07	Interference filter, green, 546 nm ± 546 nm ± 5 nm		114.00
46 78 08	Precision interference line filter PIL 546 nm ± 2 nm		179.00
46 78 13	Precision interference line filter 589 nm ± 3 nm		179.00
Thermoprotective filters			
46 78 30	Heat absorption filter KG 1	\$	39.00
46 78 32	Heat reflection filter (Calflex)		55.00
FOR POLARIZED LIGHT			
a) Polarizers			
47 36 00	Filter polarizer 32 mm dia. (without mount)	\$	116.00
47 36 16	Polarizer with scale for vertical illumination		336.00
46 62 89	Swing-out polarizer for vertical illuminators		253.00
b) Analyzers			
47 36 63	Simple analyzer slider for tube head without Telan lens	\$	383.00
47 36 62	Rotatable analyzer slider for tube head without Telan lens		1,046.00
47 37 04	Quartz plate		146.00
47 37 24	Quartz wedge 1-3		523.00



ATTACHMENT CAMERA SYSTEM MC63

47 30 24	Phototube M for Universal and Photomicroscope stands	\$	183.00
47 30 12-9902	Binocular tube G for Universal and Photomicroscope stands		703.00
46 40 43-9901	2 Focusing Kpl 10x wide field eyepieces	\$234.00 ea.	468.00
47 60 12	Special basic body with shutter M		637.00
47 60 13	Photo diode sensor ME		150.00
47 74 25	Exposure control panel		1,563.00
38 00 74-0160	Power cable, 110V		11.50
47 60 21	Photo reticule MC for eyepiece		76.00
47 60 72	Camera back MC 35		390.00
§ 41 48 33	Focusing magnifier		62.00
46 42 40	Photoeyepiece S-Kpl 16x/12.5		364.00
	ATTACHMENT CAMERA MC 63 WITH 35MM BACK, COMPLETE	\$	<u>4,607.50</u>

OPTIONAL PHOTOEYEPIECES

46 40 40	Photoeyepiece S-Kpl 10x/20 for Plan optics only	\$	438.00
46 42 21	Photoeyepiece Kpl 16x/12 M		185.00

OPTIONAL EYEPIECES FOR OBSERVATION

46 40 23	2 Focusing Cpl 10x wide field eyepieces	\$68.00 ea.	136.00
46 40 46	Focusing Kpl 10x wide field eyepiece with orientation screw		264.00
46 40 43-9901	Focusing Kpl 10x wide field eyepiece		234.00

OPTIONAL CAMERA BACKS

★ 47 60 73	Camera Back MC 35 with motorized film transport	\$	835.00
47 60 57	Camera back 4" x 5"		650.00

■ REQUIRED COMPONENTS

§ OPTIONAL

46 48 31	Attachment telescope for critical focus	\$	211.00
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OBJECTIVES FOR TRANSMITTED LIGHT (Object - thread seat distance of all transmitted light objectives is 45 mm)

Planachromats

Catalog Number	Effective Magnification/ Numerical Aperture	Working Distance mm	Focal Length mm	\$
For Brightfield				
46 20 10	Planachromat 1.0/0.04	4.4	134.7	550.00
46 20 13	Planachromat 1.6/0.032-5/0.104	32.0-1.5	41.2-20.8	782.00
46 01 10	Planachromat 2.5/0.08	9.0	56.0	162.00
46 03 10	Planachromat 6.3/0.16	4.9	27.1	324.00
46 04 10	Planachromat 10/0.22	4.8	15.8	384.00
46 05 10-9901	Planachromat 16/0.35	2.8	10.4	426.00
46 06 10	Planachromat 25/0.45	1.4	7.0	486.00
46 20 16	Planachromat 32/0.65	0.3	5.6	582.00
46 07 10	Planachromat 40/0.65	0.7	4.13	570.00
46 07 15	LD-Planachromat 40/0.60 corr. (D = 1.3 mm)	1.5	4.1	1,194.00
46 19 10	Planachromat 100/1.25 oil	0.09	1.67	789.00
46 19 16	Planachromat 100/1.25 w/iris oil	0.09	1.67	1,259.00
For Phase Contrast				
46 03 11-9902	Planachromat 6.3/0.16 Ph 1	4.9	27.1	522.00
46 05 11	Planachromat 16/0.35 Ph 2	2.8	10.4	611.00
46 06 11	Planachromat 25/0.45 Ph 2	1.4	7.0	618.00
46 07 11	Planachromat 40/0.65 Ph 2	0.7	4.13	755.00
46 07 16	LD-Planachromat 40/0.60 corr. Ph 2	1.5	4.1	1,391.00
46 19 11	Planachromat 100/1.25 oil Ph 3	0.09	1.67	1,225.00
For Specimen Without Cover Glass				
46 08 60	Planachromat 63/0.90 O.D.	0.09	3.0	719.00

Neofluars

Catalog Number	Effective Magnification/ Numerical Aperture	Working Distance mm	Focal Length mm	\$
For Brightfield				
46 03 20	Neofluar 6.3/0.20	10.8	23.6	348.00
46 04 20	Neofluar 10/0.30	4.0	16.4	399.00
46 05 20	Neofluar 16/0.40	0.9	10.8	456.00
46 06 20	Neofluar 25/0.60	0.54	7.1	528.00
46 07 20	Neofluar 40/0.75	0.33	4.5	540.00
46 08 12-9903	Plan-Neofluar 63/0.90 corr.	0.09	2.7	1,007.00
46 18 20-9903	Neofluar 63/1.25 oil	0.6	2.8	1,293.00
46 19 20	Neofluar 100/1.30 oil	0.24	1.92	671.00
For Phase Contrast				
46 05 21	Neofluar 16/0.40 Ph 2	0.9	10.8	611.00
46 06 21	Neofluar 25/0.60 Ph 2	0.54	7.1	671.00
46 07 21	Neofluar 40/0.75 Ph 2	0.33	4.5	683.00
46 08 13-9903	Plan-Neofluar 63/0.90 Ph 3 corr.	0.09	2.7	1,175.00
46 18 21-9902	Neofluar 63/1.25 oil Ph 3	0.6	2.8	1,355.00
46 19 21-9903	Neofluar 100/1.30 oil Ph 3	0.24	1.92	834.00

Planapochromats

Catalog Number	Effective Magnification/ Numerical Aperture	Working Distance mm	Focal Length mm	\$
For Brightfield				
46 02 40	Planapochramat 4/0.16	2.5	35.1	659.00
46 04 40	Planapochramat 10/0.32	0.35	14.6	815.00
46 06 40	Planapochramat 25/0.65	0.14	6.3	894.00
46 07 42	Planapochramat 40/0.95 corr.	0.09	4.25	1,529.00
46 17 46	Planapochramat 40/1.0 oil w/iris	0.22	4.05	1,319.00
46 18 40	Planapochramat 63/1.4 oil	0.09	2.57	1,995.00
46 19 40	Planapochramat 100/1.3 oil	0.09	1.64	1,930.00
46 19 46	Planapochramat 100/1.3 oil w/iris	0.09	1.64	2,009.00
For Phase Contrast				
46 06 41	Planapochramat 25/0.65 Ph 2	0.14	6.3	1,115.00
46 07 43	Planapochramat 40/0.95 Ph 3 corr.	0.09	4.25	1,679.00
46 17 47	Planapochramat 40/1.3 Ph 3 oil w/iris	0.22	4.05	1,535.00
46 18 41	Planapochramat 63/1.4 Ph 3 oil	0.09	2.57	2,098.00
46 19 41	Planapochramat 100/1.3 Ph 3 oil	0.09	1.64	2,033.00

INTERFERENCE CONTRAST ACCESSORIES FOR TRANSMITTED LIGHT

Objective	W.D. mm	DIC Slider	Intermediate Ring	\$
46 03 10 Planach. 6.3/0.16 \$324.00	4.9	47 45 31 \$210.00	47 44 65 \$121.00	655.00
46 05 10-9901 Planach. 16/0.35 \$426.00	2.8	47 45 51 \$210.00	47 44 65 \$121.00	757.00
46 07 10 Planach. 40/0.65 \$570.00	0.7	47 45 71 \$210.00	47 44 65 \$121.00	901.00
46 07 15 LD Planach. 40/0.6 corr. \$1,194.00	1.5	47 45 64 \$210.00	47 44 65 \$121.00	1,525.00
46 18 40 Planapo. 63/1.4 oil \$1,995.00	0.9	47 45 81 \$210.00	47 44 65 \$121.00	2,326.00
46 19 10 Planach. 100/1.25 oil \$789.00	0.9	47 45 91 \$210.00	47 44 65 \$121.00	1,120.00

Note: For information on Hoffman Modulation Contrast Accessories request our price list "Optical Systems for the Microscope"

OBJECTIVES FOR REFLECTED LIGHT (Object - thread seat distance = 33 mm)

Epiplan Objectives HD (for bright and darkfield)
thread = M 24 mm

Catalog Number	Effective Magnification Numerical Aperture	Working Distance mm	\$
46 02 69-9901	Epiplan 4/0.10 HD'	2.0	264.00
46 03 69-9904	Epiplan 8/0.20 HD	2.0	298.00
46 05 69-9906	Epiplan 16/0.35 HD	2.0	390.00
46 07 69	Epiplan 40/0.85 HD	0.23	396.00
46 08 69	Epiplan 80/0.95 HD	0.09	462.00
46 19 69	Epiplan 100/1.25 HD	0.25	1,362.00

LD-Epiplan Objectives (with long working distance) thread = W 0.8"

Catalog Number	For Specimen with Cover Glass D = 1.5 mm		For Specimen without Cover Glass D = 0		\$
	Effective Magnification/ Numerical Aperture	Working Distance mm	Use With Protection Cap	Working Distance mm	
46 21 01 46 29 11	LD-Epiplan 4/0.1	8.0	Cap LD 4	7.5	420.00 48.00
46 21 02 46 29 12	LD-Epiplan 8/0.2	6.2	Cap LD 8	5.7	450.00 48.00
46 21 03 46 29 13	LD-Epiplan 16/0.3	4.1	Cap LD 16	3.6	610.00 48.00
46 21 04 46 29 14	LD-Epiplan 40/0.6	3.4	Cap LD 40	2.3	865.00 48.00
46 20 98	LD-Epiplan 40/0.6 HD	2			752.00

§ INTERFERENCE - CONTRAST EQUIPMENT FOR REFLECTED LIGHT

Catalog Number	Effective Magnification/ Numerical Aperture	Working Distance mm	Interference Attachment with thread = W 0.8" to be combined with:	\$
46 20 01 46 20 02 47 44 92-9904	Epiplan 4/0.10 Pol Epiplan 8/0.20 Pol (corr. length 45 mm)	9.0 7.1	Interference Attachment for Epiplan 4/8	395.00 450.00 421.00
46 20 03 47 44 93-9904	Epiplan 16/0.36 Pol (corr. length 33 mm)	2.7	Interference Attachment for Epiplan 16	570.00 421.00
46 20 04 47 44 94-9904	Epiplan 40/0.85 Pol (corr. length 33 mm)	0.23	Interference Attachment for Epiplan 40	754.00 421.00
46 20 80 47 44 95-9905	Epiplan 80/0.95 Pol (corr. length 33 mm)	0.09	Interference Attachment for Epiplan 80	825.00 421.00
46 20 05-9903 47 44 96	Epiplan 100/1.25 Pol oil (corr. length 45 mm)	0.25	Interference Attachment for Epiplan 100	1,085.00 421.00
46 21 23 46 29 15 47 44 63	LD-Epiplan 16/0.30 Pol Protection cap LD 16	3.5	Interference Attachment for LD-Epiplan 16	730.00 69.00 414.00
46 21 24-9901 46 29 16 47 44 64	LD-Epiplan 40/0.6 Pol Protection cap LD 40	2.3	Interference Attachment for LD-Epiplan 40	960.00 69.00 414.00

§ Note: For each interference attachment one holder is required:

46 62 58 Fixed change ring w 0.8 \$ 38.00

COMPENSATING PLANO EYEPIECES

Standard Eyepieces (for tubes with 23.2 mm inside diameter)

Catalog Number	Magnification Eyepieces w/long eye relief	Focal Length mm	Field of View No.	Angle of View	\$
46 39 20	Kpl 8x	31.5	18	33°	125.00
46 39 22	Kpl 8x	31.3	18	32°	168.00
46 40 20	Kpl 10x	25.0	16	36°	78.00
46 40 42-9902	Kpl 10x wide angle	25.1	18	41°	155.00
46 40 44-9901	Kpl 10x super wide angle	25.1	20	45°	174.00
46 41 42	Kpl 12.5x wide angle	20.3	18	48°	222.00
46 41 44	Kpl 12.5x super wide angle	20.3	20	53°	250.00
46 42 20	Kpl 16x	15.6	10	36°	132.00
46 42 44	Kpl 16x wide angle	15.6	16	55°	230.00
46 43 20	Kpl 20x	12.5	8	36°	120.00
46 42 20	Kpl 25x	10.0	6.3	36°	150.00

Eyepieces for Micrometer Discs 10 mm diameter

Catalog Number	Magnification	Focal Length mm	Field of View No.	Angle of View	\$
46 39 23-9901	Kpl 8x	31.5	18	33°	168.00
46 40 43-9901	Kpl 10x wide field	25.1	18	41°	234.00
46 40 48	Kpl 10x super wide angle	25.1	20	45°	240.00
46 41 23-9901	Kpl 12.5x	19.8	12.5	36°	200.00
46 41 48	Kpl 12.5x super wide angle	20.3	20	53°	355.00
46 42 23-9901	Kpl 16x	15.6	10	36°	164.00
46 43 23-9901	Kpl 20x	12.5	8	36°	174.00

§ 46 49 18 Carrier for reticules \$ 33.00

Special Measuring Eyepieces and Measuring Accessories

46 39 73	Eyepiece Screw Micrometer Kpl 8x	\$ 1,412.00
46 42 73	Eyepiece Screw Micrometer Kpl 16x	1,439.00
47 30 00	Inclined monocular tube 25 mm dia.	118.00
47 95 18	Case for Eyepiece Screw Micrometer	78.00
46 49 30	Convertible eye cap 10 mm	9.50
46 49 31	Convertible eye cap 15 mm for 10 x w	9.50
46 49 00	Eyecup	6.00
46 49 01	Spectacle protection cup	2.10
47 40 20-9902	Stage Micrometer positive 5 ± 100/100 in container	164.00
47 40 21	Stage Micrometer negative 5 ± 100/100 in container	203.00
47 40 22-9902	Stage Micrometer +100/100 in container (for reflected light)	174.00

Eyepiece Micrometer Discs

Micrometer Discs for Focusing Eyepieces	Diameter (17 mm)	\$	Diameter (19 mm)	\$
Eyepiece Micrometer 5:100	47 40 10	78.00	47 40 03	87.00
Eyepiece Micrometer 10:100	47 40 11	62.00	47 40 02-9901	96.00
Net Micrometer 10 x 10/20			47 40 04	108.00
Net Micrometer 5 x 5/10			47 40 05	108.00
Crossline Reticule			47 40 06	99.00
Reticule for Reticulocytes counting	47 40 32	99.00	47 40 58	112.00
Reticule w/rectangular markings (TV)			47 40 09	86.00
Crossline micrometer 10:100			47 40 07	96.00
Integrating disc I (25 points)			47 41 40	109.00
Integrating disc II (100 points)			47 41 41	109.00
Integrating disc III (400 points)			47 41 42	109.00
Integrating disc IV (900 points)			47 41 43	109.00

TERMS ARE NET 30 DAYS, F.O.B. OUR PREMISES, NEW YORK, N.Y.
 PRICES AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Due to an omission, the information on Page 5.5 and 5.6 is incomplete.

4 No. 46 29 89 Intermediate rings 12mm are required to mount HD objectives to the IIIC/45 vertical illuminator.

Complete optical equipment, Page 5.5 should read\$3,443.50

The Universal R complete should read...\$9,669.00

Complete optical equipment, Page 5.6 should read\$3,443.50

The Universal Microscope with Optovar complete should read.....\$11,798.50