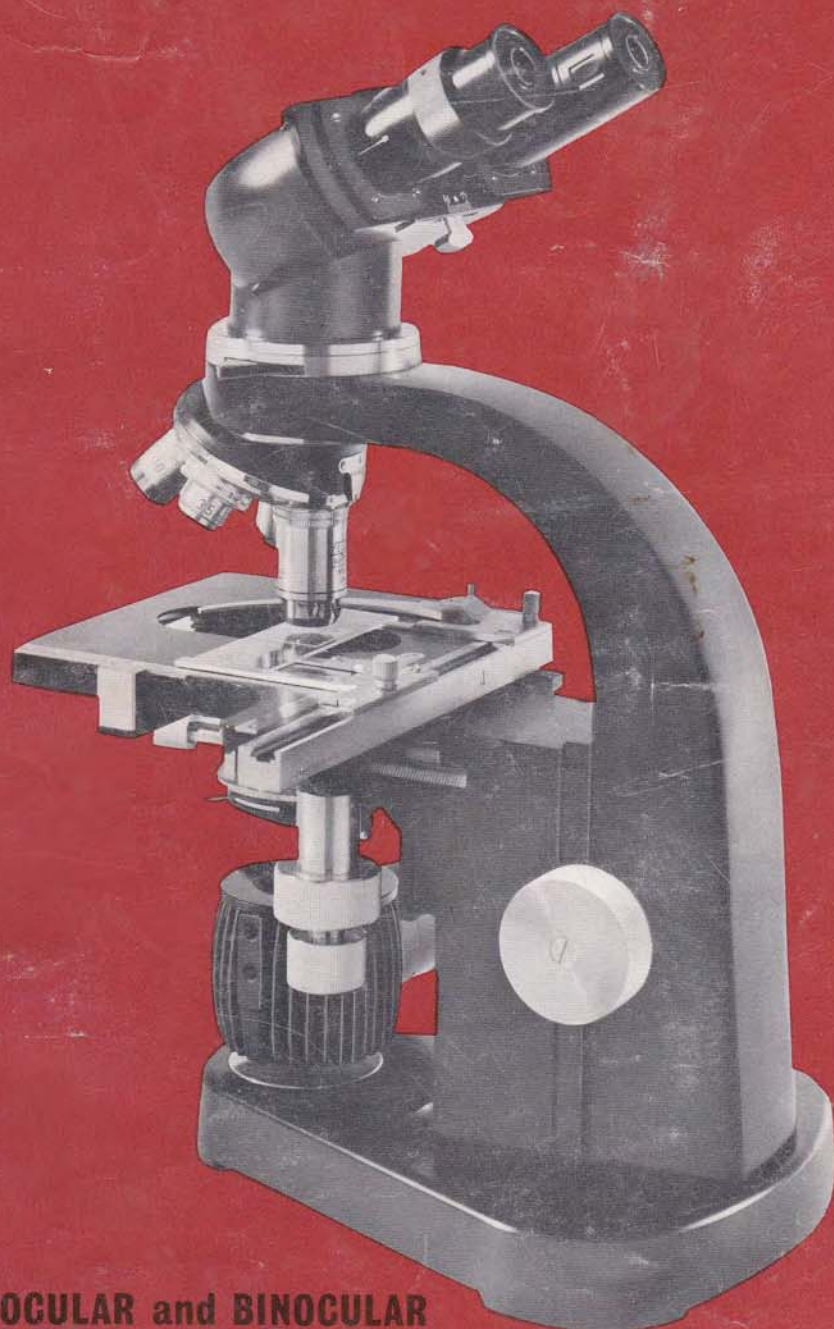


LEITZ



MONOCULAR and BINOCULAR

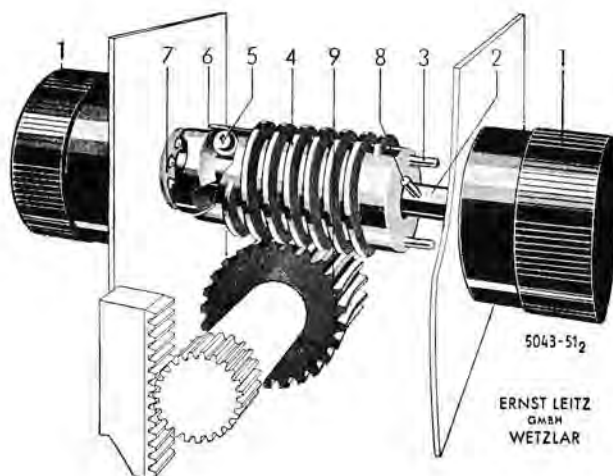
MEDICAL and STUDENT MICROSCOPE

This catalog describes our microscope Model SM. It constitutes a radical departure from conventional design; and in the short time since it appeared on the market, it has been acclaimed as the outstanding instrument for medical studies by the leading medical schools throughout the United States.

The specifications which are listed hereunder fill even the most exacting requirements of the microscope committee at your University.

The selection of a microscope for medical studies should be made very carefully. It is a life-time investment, and your choice of microscope must consider the benefits which superior optical as well as mechanical performance will provide in your studies. Leitz microscopes have been manufactured for 112 years and have an enviable record of dependability, optical quality, and forward design.

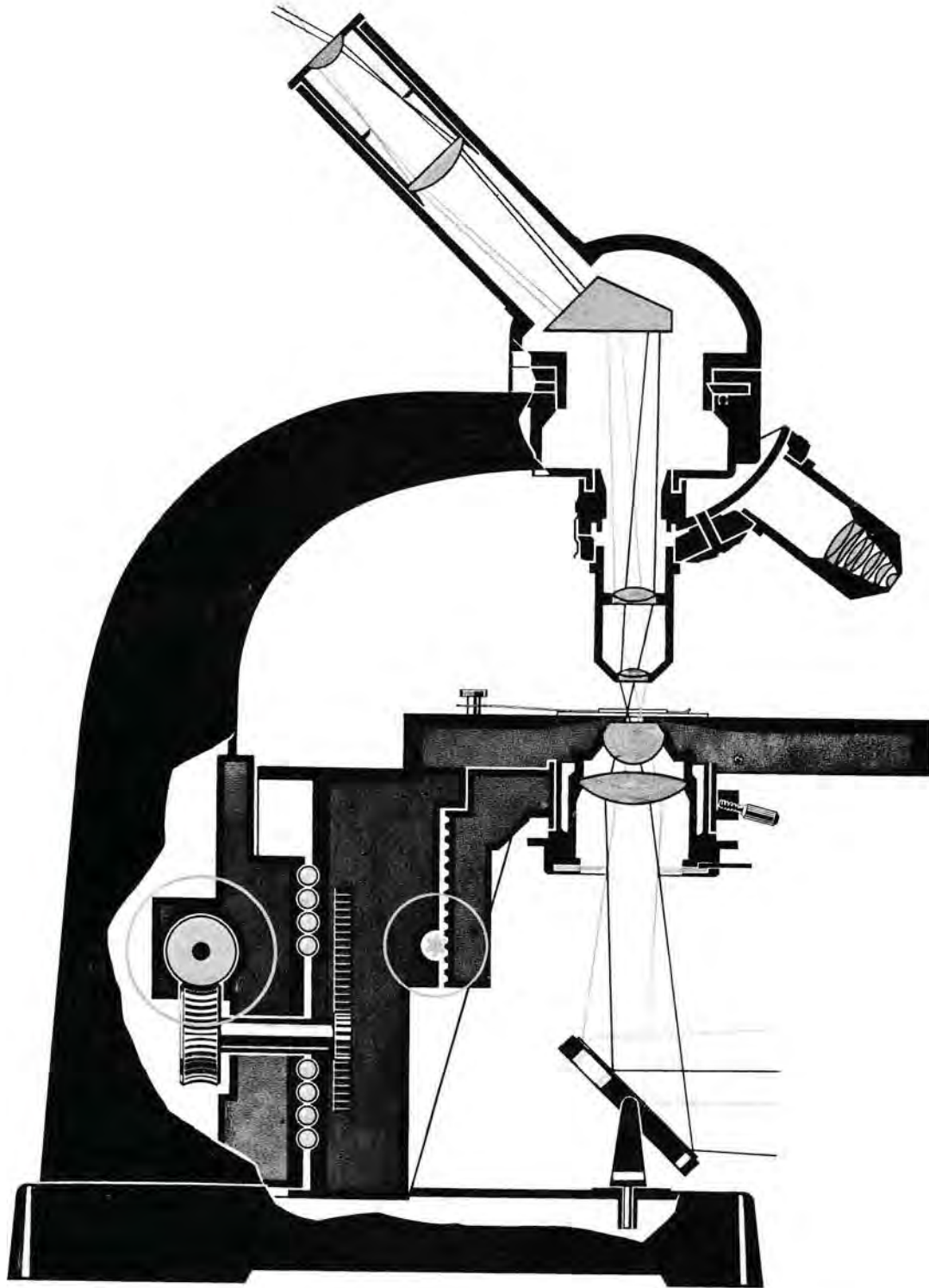
The latest technological advances in the scientific instrument field are incorporated in the design of the SM. Coarse and fine focusing motions are combined in a single operating control.



This makes focusing easier and entirely free from lost motion. The mechanism operates smoothly under all climatic conditions and independent of lubricants.

A great deal of emphasis has been placed upon the ready interchangeability of the essential parts, such as tubes, condensers, mirror and fork for external light sources, and the built-on microscope lamps.

The objective carrier is a dust-proof nosepiece operating on ball bearings. All objectives are par-focal, and the high power lenses are equipped with spring loaded mounts to afford complete specimen protection as well as prevent damage to the front lens of the objective.





MECHANICAL STAGE 2" x 3", GRADUATED,
#26, PZKEE-NEW \$ 84.00



CARRYING CASE
ISTAR \$31.00



INCLINED BINOCULAR TUBE
"S" NACON \$189.00



INCLINED MONOCULAR TUBE "P"
NACIM \$40.00



MONOCULAR TUBE "O"
NACEL \$20.00



PLAIN STAGE #19
IKSET \$14.00



ATTACHABLE MECH. STAGE
#43 PIEEV \$74.00



GRADUATED MECHANICAL
STAGE #48 IKRES \$143.00



SINGLE LENS CONDENSER
IKKIM \$20.00



TWO-LENS COND. #95
ILUTO \$30.00



SWING-OUT COND. #81
IKMOR \$35.00



DARKFIELD CONDENSER #83
D 1.20 A. CONCI \$69.00



MIRROR & FORK
NAELP \$8.00



LOW VOLTAGE LAMP &
FIXED TRANSFORMER
81834 \$38.00



LOW VOLTAGE LAMP
REG. TRANSFORMER
81829 \$48.00



4-STEP TRANSFORMER
REROW \$19.00
REGULATING TRANSFORMER
RESEV \$45.00

MICRO-DIA LAMP 15W. 120V.
NADAL \$16.00

LOW VOLTAGE LAMP 6 VOLTS
15 WATTS. NANAW \$80.00



MONOCULAR STUDENT MICROSCOPE "SM" CONSISTING OF:

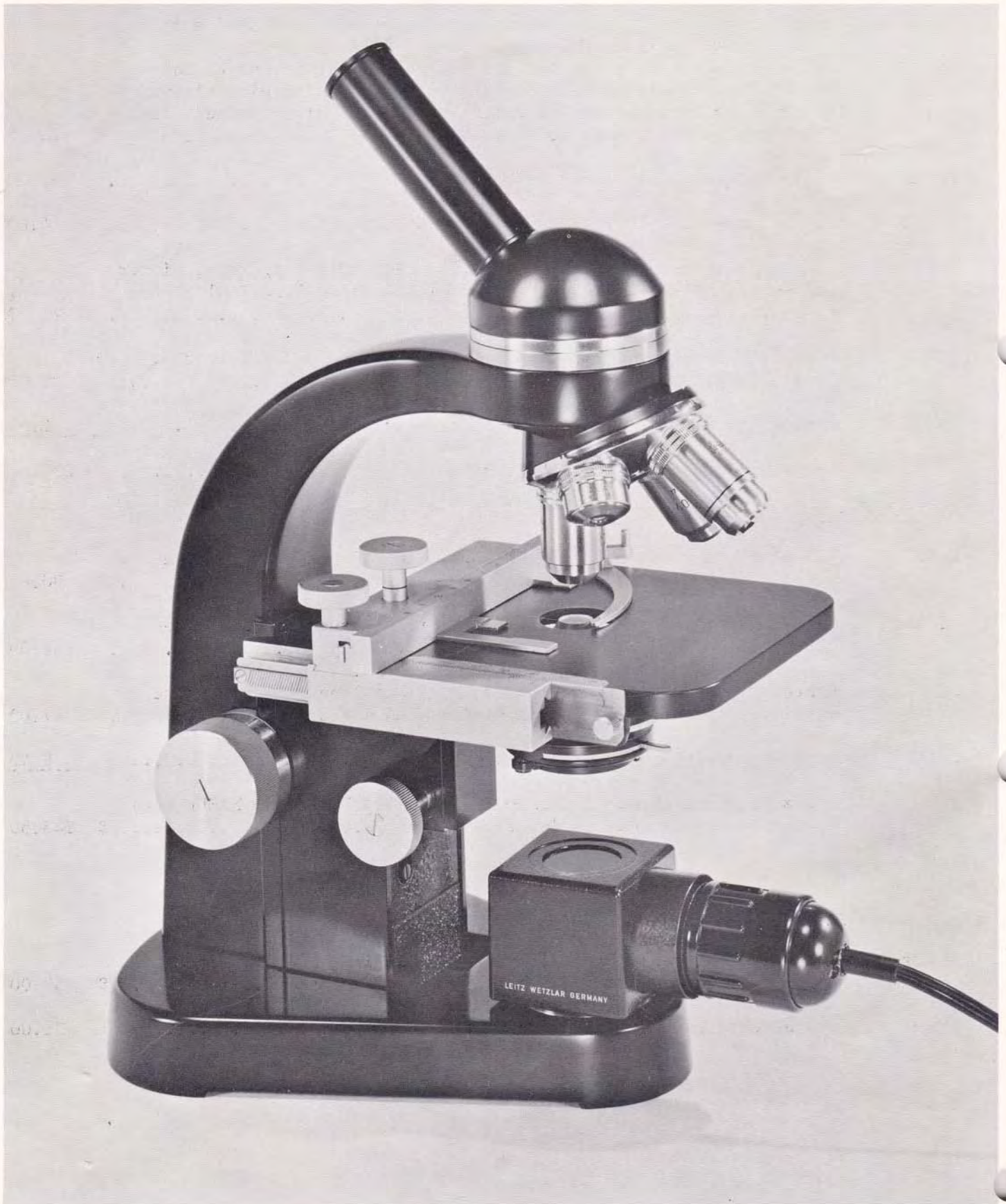
81034	Modern Stand - Made of non-corroding alloy with combined single knob coarse and fine adjustment - with identical controls on either side of the stand for the vertical displacement of the stage along precision ball races. Rack and pinion with sleeve mount -.4, for the adjustment in the height of condenser; Including protective dust cover.....	\$ 116.00
NACIM	Interchangeable, inclined monocular tube "P".....	40.00
IKSET	Plain stage #19, 130x125mm.....	14.00
IKKIM	Single lens condenser #65, N.A. 0.65, with iris diaphragm, filter holder with blue and ground glass filters, in cylindrical sleeve mount.....	20.00
ISNUR	Quadruple revolving objective nosepiece 0.4.-, on ball bearing races.....	28.00
NAELP	Mirror and fork with plane and concave surfaces.....	8.00
	Leitz Microscope SM 0.4.4 P 19/65 + NAELP.....	\$ 226.00

OPTICAL EQUIPMENT A6a

OANEE	Achromatic dry objective, 3.5x/0.10, focal length 31.6mm, free working distance 23mm.....	\$ 30.00
ACORA	Achromatic dry objective, 10x/0.25, focal length 16.3mm, free working distance 5.7mm.....	31.00
ACMAT	Achromatic dry objective, 40x/0.65, focal length 4.46mm, free working distance 0.67mm, with spring loaded mount.....	47.00
HYVIR	Huygens eyepiece, 10x single, field of view 13.6mm.....	9.50
	Leitz Monocular Student Microscope SM 0.4.4 P 19/65 + NAELP with optical equipment A6a as described above.....	\$ 343.50

OPTIONAL

ACVIR-FE	Achromatic dry objective, 25x/0.50, focal length 7.1mm, free working distance 0.88mm, with spring loaded mount.....	\$ 52.00
ISTAR	Leatherette carrying case, upright.....	31.00



MONOCULAR MEDICAL MICROSCOPE "SM" CONSISTING OF:

81034	Modern Stand - Made of non-corroding alloy with combined single knob coarse and fine adjustment - with identical controls on either side of the stand for the vertical displacement of the stage along precision ball races. Rack and pinion with sleeve mount - .4, for the adjustment in the height of condenser; including protective dust cover.....	\$ 116.00
NACIM	Interchangeable, inclined monocular tube "P".....	40.00
PZKEE	Mechanical stage #26, with scales and verniers, traversing area 76 x 50mm (3 x 2").....	84.00
ILUTO	Two-lens condenser #95, N.A. 1.20, with iris diaphragm, filter holder with blue and ground glass filters, in cylindrical sleeve mount.....	30.00
ISNUR	Quadruple revolving objective nosepiece 0.4.-, on ball bearing races.....	28.00
NADAL	Micro-dia lamp, 15 Watt, for direct connection to 110 Volts A.C....	16.00
	Leitz Microscope SM 0.4.4 P 26/95 + NADAL as described above.....	\$ 314.00

OPTICAL EQUIPMENT

OANEE	Achromatic dry objective, 3.5x/0.10, focal length 31.6mm, free working distance 23mm.....	\$ 30.00
ACORA	Achromatic dry objective, 10x/0.25, focal length 16.3mm, free working distance 5.7mm.....	31.00
ACMAT	Achromatic dry objective, 40x/0.65, focal length 4.46mm, free working distance 0.67mm, with spring loaded mount.....	47.00
OILIM-FE	Achromatic oil immersion objective, Oil 100x/1.30, focal length 1.8mm, free working distance 0.14mm, with spring loaded mount.....	83.00
PELAJ	Periplanatic eyepiece, 10x ^o single, field of view 18mm.....	24.00
	Leitz Monocular Medical Microscope SM 0.4.4 P 26/95 + NADAL with optical equipment "MONO-OPKOC" as described above.....	\$ 529.00

Upon Request, We Can Supply One of the Following Illuminators in Place of the 15 Watt Micro-dia Lamp "NADAL":

NAELP	Mirror and fork with plane and concave surfaces.....	\$ 8.00
81834	Low voltage lamp, 6 Volts, 15 Watts with blue and ground glass filter and fixed transformer, with on-off switch for 110 Volts A.C.....	38.00
81829	Low voltage lamp, 6 Volts, 25 Watts with blue and ground glass filter and regulating transformer for 110 Volts A.C.....	48.00

OPTIONAL

ISTAR	Leatherette carrying case, upright.....	\$ 31.00
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BINOCULAR MEDICAL MICROSCOPE "SM" CONSISTING OF:

81034	Modern Stand - Made of non-corroding alloy with combined single knob coarse and fine adjustment - with identical controls on either side of the stand for the vertical displacement of the stage along precision ball races. Rack and pinion with sleeve mount -.4, for the adjustment in the height of condenser; Including protective dust cover.....	\$ 116.00
NACON	Interchangeable, inclined binocular tube "S" (tube factor 1.25x)...	189.00
PZKEE	Mechanical stage #26, with scales and verniers, traversing area 76 x 50mm (3 x 2").....	84.00
IKMOR	Two-lens condenser #81, N.A. 0.90, with swing out upper element, iris diaphragm, filter holder with blue and ground glass filters, in cylindrical sleeve mount.....	35.00
ISNUR	Quadruple revolving objective nosepiece 0.4.-, on ball bearing races.....	28.00
81829	Low voltage lamp, 6 Volts, 25 Watts with blue and ground glass filter and regulating transformer for 110 Volts, A.C.....	48.00
	Leitz Microscope SM 0.4,4 S 26/81 + 81829 as described above.....	\$ 500.00

OPTICAL EQUIPMENT

OANEE	Achromatic dry objective, 3.5x/0.10, focal length 31.6mm, free working distance 23mm.....	\$ 30.00
ACORA	Achromatic dry objective, 10x/0.25, focal length 16.3mm, free working distance 5.7mm.....	31.00
ACMAT	Achromatic dry objective, 40x/0.65, focal length 4.46mm, free working distance 0.67mm, with spring loaded mount.....	47.00
OILIM-FE	Achromatic oil immersion objective, Oil 100x/1.30, focal length 1.8mm, free working distance 0.14mm, with spring loaded mount.....	83.00
PELEK	Periplanatic eyepieces, 10x ⁰ paired, field of view 18mm.....	48.00
	Leitz Binocular Medical Microscope SM 0.4.4 S 26/81 + 81829 with optical equipment "BINO-OPKOC" as described above.....	\$ 739.00

770.00

Upon Request, We Can Supply One of the Following Illuminators in Place of the 6Volt, 25 Watt, Low Voltage Lamp "81829":

NAELP	Mirror and fork with plane and concave surfaces.....	\$ 8.00
NADAL	Micro-Dia lamp, 15 Watt, for direct connection to 110 Volts A.C...	16.00
81834	Low voltage lamp 6 Volts, 15 Watts with blue and ground glass filter and fixed transformer, with on-off switch for 110 Volts A.C.....	38.00

OPTIONAL

ISTAR	Leatherette carrying case, upright.....	31.00
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647.00



BINOCULAR MEDICAL MICROSCOPE "SM" CONSISTING OF:

81034	Modern Stand - Made of non-corroding alloy with combined single knob coarse and fine adjustment - with identical controls on either side of the stand for the vertical displacement of the stage along precision ball races. Rack and pinion with sleeve mount -.4, for the adjustment in the height of condenser; Including protective dust cover.....	\$ 116.00
NACON	Interchangeable, inclined binocular tube "S" (tube factor 1.25x) ..	189.00
IKRES	Mechanical stage #48, with scales and verniers, low set operating knobs on one axis, traversing area 76 x 50mm (3 x 2")	143.00
IKMOR	Two-lens condenser #81, N.A. 0.90, with swing out upper element, iris diaphragm, filter holder with blue and ground glass filter, in cylindrical sleeve mount.....	35.00
ISNUR	Quadruple revolving objective nosepiece 0.4.- on ball bearing races.....	28.00
NANAW	Low voltage lamp 6 Volts, 15 Watts with centering socket.....	80.00
REROW	Four step transformer 6 Volts, 2.5 Amps for connection to 110 Volts A.C.....	19.00
	Leitz Microscope SM 0.4.4 S 48/81 + NANAW-REROW as described above.....	\$ 610.00

OPTICAL EQUIPMENT

OANEE	Achromatic dry objective, 3.5x/0.10, focal length 31.6mm free working distance 23mm.....	\$ 30.00
ACORA	Achromatic dry objective, 10x/0.25, focal length 16.3mm, free working distance 5.7mm.....	31.00
ACMAT	Achromatic dry objective, 40x/0.65, focal length 4.46mm, free working distance 0.67mm, with spring loaded mount.....	47.00
OILIM-FE	Achromatic oil immersion objective, Oil 100x/1.30, focal length 1.8mm, free working distance 0.14mm, with spring loaded mount.....	83.00
PELEK	Periplanatic eyepieces, 10x ⁰ paired, field of view 18mm.....	48.00
	Leitz Binocular Medical Microscope SM 0.4.4 S 48/81 + NANAW-REROW with optical equipment "BINO-OPKOC" as described above.....	\$ 849.00

OPTIONAL

ISTAR	Leatherette carrying case, upright.....	\$ 31.00
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TUBES

NACEL Interchangeable, straight monocular photographic tube "O".....\$ 20.00

EQUIPMENT FOR DARKFIELD OBSERVATIONS

SEEBK Dry darkfield condenser #85, D 0.80, in cylindrical sleeve mount..\$ 86.00

CONCI Immersion darkfield condenser #83, D 1.20, in centering mount and cylindrical sleeve..... 69.00

IRSOP-

OILIM-FE Drop in funnel stop for Achromatic oil immersion objective 100x/
1.30..... 1.00

If Desired, We Can Supply the Achromatic Oil Immersion Objective 100x with a Built-in Iris Diaphragm. Refer to Code "OBSOT" in the Table Below of Objectives.

SPARE PARTS

LIORN-NEW Bulb 15 Watt, 110 Volt, screw base for illuminator NADAL.....\$ 1.00
LIORN-25W Bulb 25 Watt, 110 Volt, screw base for illuminator NADAL..... 1.00
89181 Bulb 6 Volt, 15 Watt, bayonet base for illuminator 81834..... 1.00
89183 Bulb 6 Volt, 25 Watt, bayonet base for illuminator 81829..... 1.00
LINOP Bulb 6 Volt, 15 Watt, screw base for illuminator NANAW..... 3.00

Objectives and eyepieces for transmitted light observations in bright- and darkfield

Designation of objectives	(scale / aperture)	Cover glass correction*	Eyepiece	Codeword	Price	Focal length mm.	Working distance mm.	Total magnifications with Huygens, Periplanatic or wide-field eyepieces at a tube factor of 1.25 x (rounded off values)					
								6x	8x	10x	12x	16x	25x
Achromatic dry systems	2.5/0.07	D O	P	OBSIS	48.00	56.8	14	20	25	30	38	50	78
	3.2/0.12	D O	H	ACUBE	25.00	32.6	20	24	32	40	48	64	100
	3.5/0.10	D O	H	OANEE	30.00	31.6	23	26	35	44	53	70	110
	6/0.18	D O	H	ACEDU	27.00	24.5	17	45	60	75	90	120	190
	10/0.25	D O	H	ACORA	31.00	16.3	5.7	75	100	125	150	200	315
	25/0.50	D	P	ACVIR	52.00	7.1	0.88	190	250	310	375	500	780
	40/0.65	D	P	ACMAT	47.00	4.46	0.67	300	400	500	600	800	1250
	63/0.85	D I	P	ACISE	58.00								
	Iris 63/0.85	D	P	OBSOV	90.00	2.9	0.29	470	630	785	950	1250	1975
Achromatic immersions (W = water-immersions)	Oil + W 22/0.65	D O	P	OILAT	DISC.	8.1	0.32	165	220	275	330	440	690
	W 90/1.20	D	P	WATIM	135.00	2.1	0.09	675	900	1125	1350	1800	2800
	Oil 100/1.30	D	P	OILIM	83.00								
	Iris Oil 100/1.30 - 1.10	D	P	OBSOT	130.00	1.8	0.14	750	1000	1250	1500	2000	3100
Fluorite dry systems	FI 40/0.85	D I	P	FLUCA	115.00	4.3	0.38	300	400	500	600	800	1250
Fluorite oil immersions	FI Oil 54/0.95	D O	P	FLUIM	127.00	3.4	0.22	400	540	675	800	1100	1700
	FI Oil 70/1.30	D	P	FLURI	168.00	2.5	0.20	525	700	875	1050	1400	2200
	FI Oil 95/1.32	D	P	FLUES	161.00	1.9	0.14						
	Iris FI Oil 95/1.32-1.10	D	P	OBSUV	235.00	1.9	1.9	710	950	1200	1422	1900	3000

Huygens eyepieces						Periplanatic wide-field eyepieces						Periplanatic eyepieces					
Magnification	Field of view mm.	Codeword	Single	Price	Pair	Magnification	Field of view mm.	Codeword	Single	Price	Pair	Magnification	Field of view mm.	Codeword	Single	Price	Pair
6x	19	HYZWA	9.50			GF 10x	18	PERIR	31.00	PESIS	62.00	10x ^a	18.0	PELAJ	24.00	PELEK	48.00
6x	17	-															
10x	14	HYVIR	9.50		19.00	GF 10x M Micrometer 10mm=100Intervals		PATIH-OCASY	61.00	PATOJ-OCASY	98.00						
16x	10	HYPEE	DISC.														
						GF 16x	15	PEROS	41.00	PESOT	82.00	high-point eyepieces					
Micrometer 6x M 10mm=100Intervals	17.5	OCMIR-OCASY	36.00			GF 25x	10	PESAP	45.00	PETAR	90.00						
						GF 25x M Micrometer 10mm=100Intervals		PESER-OCASY	68.00	PELOM-OCASY	112.00						
high-point eyepieces 6.3x	20	HUFEB	DISC.									8x	18.0	PEXAV	39.00	PEXEW	78.00
												10x	15.0	PERAN	43.00	PEREP	86.00



Prices and Specifications are subject to change without notice, as we endeavor constantly to improve our products in keeping with the latest technical developments.

Terms: Net 30 Days
Effective: March 1, 1964

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