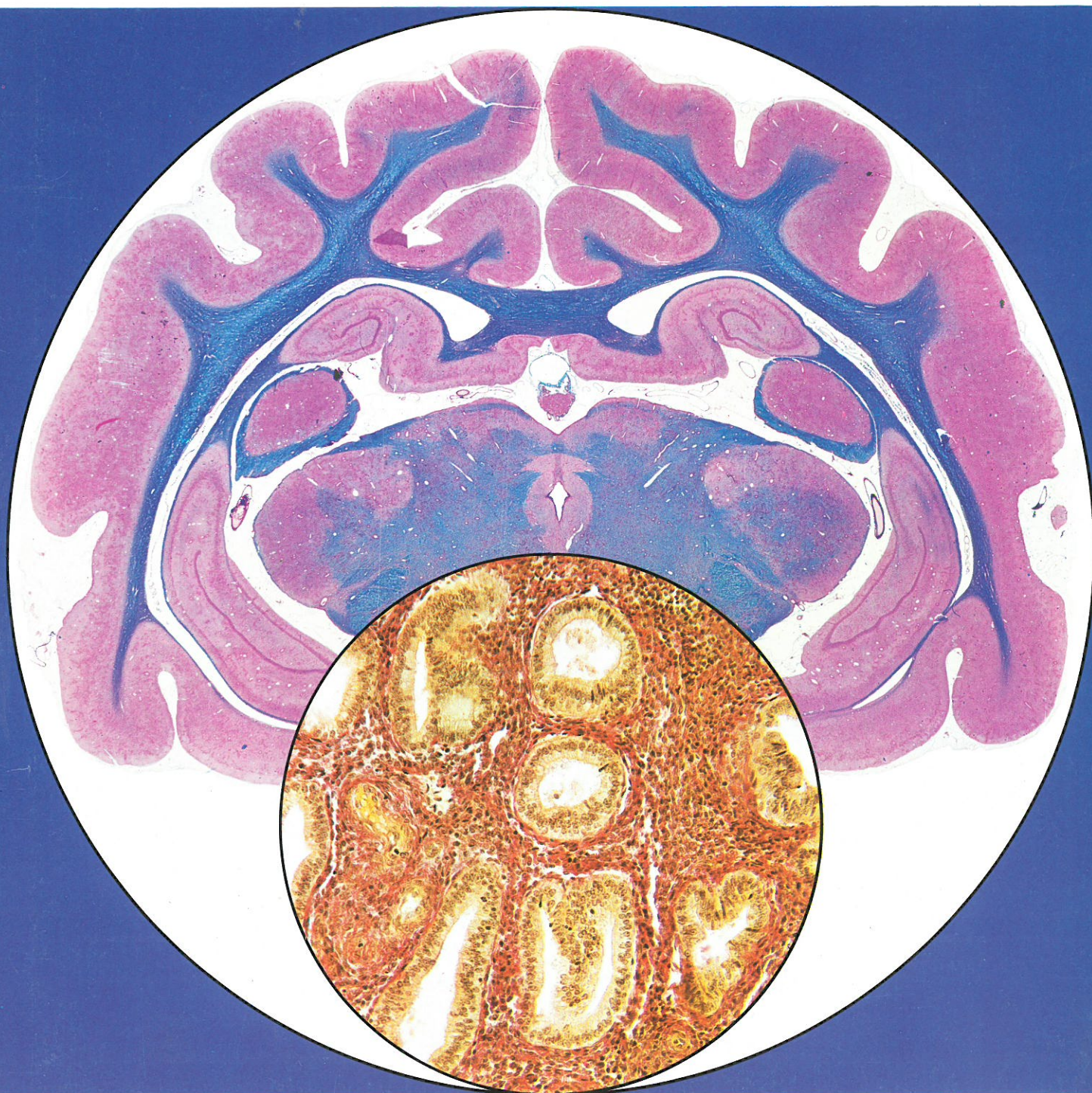


LEITZ-Projectors



MICRO PROMAR MACRO PROMAR

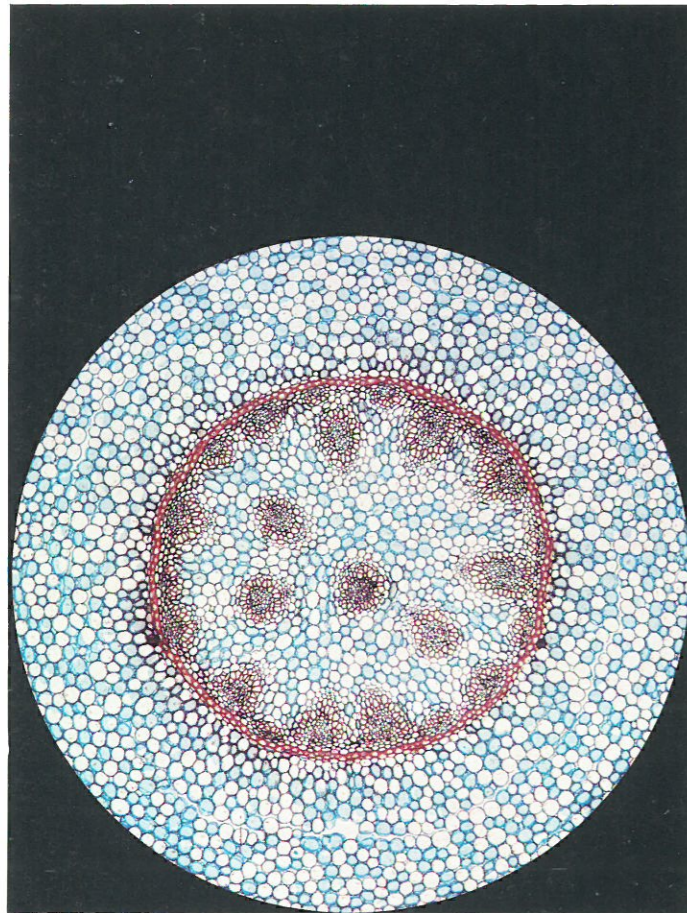


MACRO PROMAR

Projection with the MICRO PROMAR

Eyepiece	Projection distance (m)	Image diameter (m)	Reproduction scale with NPI objective			
			2.5	6.3	16	25
P 4x	3	1.05	120	300	770	1200
	4	1.40	160	400	1020	1600
	5	1.75	200	500	1280	2000
	6	2.10	240	600	1540	2400
6,3x	2	0.90	120	320	800	1260
	3	1.35	190	470	1200	1890
	4	1.80	250	630	1600	2520
GF 10x	1.5	1.10	150	380	960	1500
	2	1.40	200	500	1280	2000
	2.5	1.80	250	630	1600	2500
	3	2.10	300	750	1920	3000

Projected image with NPI 6.3/0.20 objective

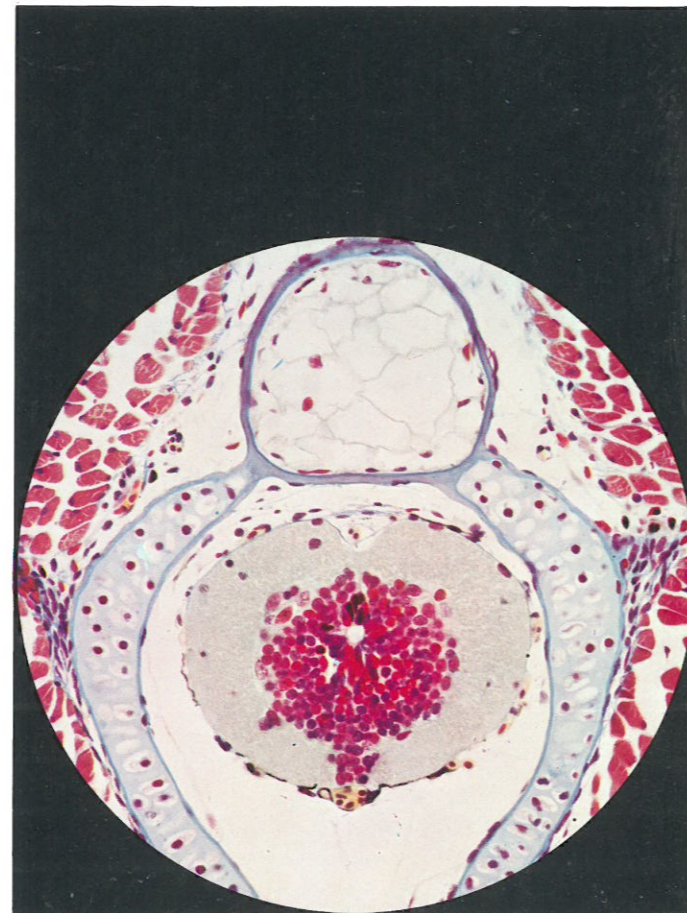


The Instrument

The MACRO PROMAR is a very useful addition to our range of micro-projector instruments. It opens up new possibilities to the teaching of medicine, biology, physics, chemistry, and technology. The instrument is simple to operate, yet has a wide range of applications: it can be used for the low-power projection of large microscopic or macroscopic specimens, for the demonstration of plate cultures, rock sections, crystals, etc., or the projection of technological objects such as stamped parts, gear wheels, or gratitudes.

In the "bench projection" position it can also be used as a tracing instrument, since it is easy to trace objects projected onto the tracing surface.

Projected image with NPI 25/0.50 objective



Brief technical description

Macro-projector for bench and wall projection
Compact, clear design
Simple operation

Very bright, brilliant image, sharp from corner to corner
Reproduction ratios obtainable:

With wall projection 8:1 to 84:1

With bench projection 5:1 to 20:1

Projection distances up to 5m (17ft)

Screen diameter up to 2m (6ft 8in)

Three highly-corrected projection lenses of 50mm, 90mm and 120mm focal length arranged on a changing slide

Projection of 5 x 5cm 35mm slides with 90mm and 120mm lenses

Quick magnification change. Large object stage

Powerful 24v 250W tungsten-halogen lamp with economy switch for double life

Effective cooling of the projector housing through 2-path cooling system

Illuminating system with aspherical condenser and special heat filter

Scratch-proof, surface-coated deflecting mirrors

Wall projection with the MACRO PROMAR

Lenses	Object field	Projection Distance					
		1m	1.50m	2m	3m	4m	5m
120mm	45	8:1	12:1	17:1	25:1	33:1	42:1
90mm	35	12	18	24	35	46	57
50mm	17	24	34	44	64	84	104
Image diameter m		0.40	0.60	0.80	1.20	1.60	2

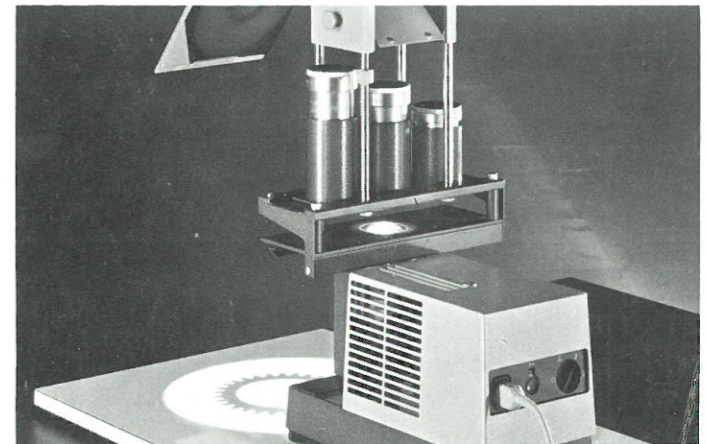
The projection distance is measured from the front edge of the projector to the projection screen. In favourable conditions screen images of more than 2m diameter can be obtained.

Bench projection (mirror housing in lowest/highest position)

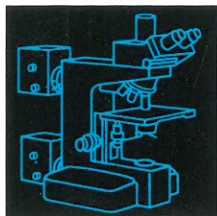
5/ 7:1 with the 120mm lens

8/10:1 with the 90mm lens

16/20:1 with the 50mm lens

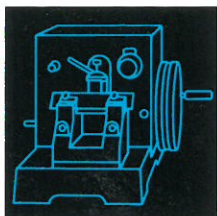


LEITZ production range



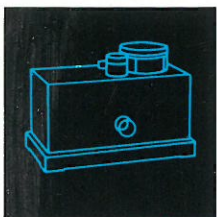
Microscopes

Microscopes of modern design for all investigations in transmitted, incident, and polarized light
Microscope accessories, such as phase contrast equipment, heating and cooling stages, universal rotating stages
Instruments for special aspects of microscopy, such as micromanipulators, transmitted-light interference microscopes, stereo microscopes, comparison microscopes
Equipment for photomicrography.
ORTHOMAT® fully automatic microscope camera
4 x 5" large-format camera with fully automatic exposure control



Microtomes

Microtomes for research and routine laboratories
Ultramicrotomes for electron microscopy



Physical research instruments based on optical methods

Photometers
MPV microscopé photometer
CLASSIMAT®, Device for optical electronic image analysis
Monochromators
Micro-refractometers
Instruments for routine dust measurements

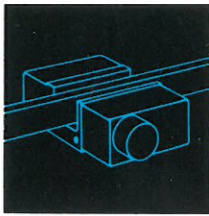
Materials testing instruments

MINILOAD hardness testers
Dilatometers
Heating microscopes



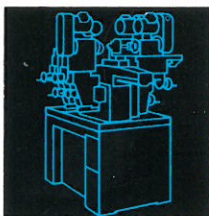
Optical-mechanical precision measuring instruments

Measuring microscopes.
Linear measuring instruments.
Angle measuring instruments.
Contour measuring projectors.
Alignment- and direction testers.
Optical installations and attachments.
Incident-light interference microscopes.



Linear and angle measuring instruments with digital display

Type 200 Universal Comparator, digital model.
Vertical Linear Precision Gauge digital model.
Universal Measuring Microscope, UWM digital model.
Optical Master Dividing Head, digital model.
Cam Taster, digital model.
Automatic Cam Measuring Machine.



Photoelectric incremental linear and angle transducers

Photoelectric measuring tubes

PRECICOMB®

Machine tools composed of LEITZ modular units.

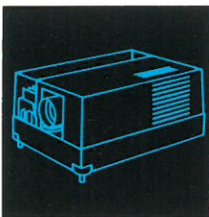


Photographic equipment

LEICA® 35mm camera
LEICA lenses and accessories
LEICAFLEX® 35mm single-lens-reflex camera
LEICAFLEX lenses and accessories
Accessories for scientific and technical photography
Enlargers
LEICINA® SUPER 8mm cine-camera

Binoculars

TRINOVID® for sport, travel, hunting



Projectors

PRADOVIT® COLOR automatic miniature projector.
PRADO® UNIVERSAL versatile classroom projector
Episcopes
Epidiascopes.
Large lecture hall projectors
Microprojectors
Writing and drawing projectors

® = Registered Trademark

Design subject to alteration without notice.

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