# MICROSCOPES

#### MICROZOOM® II

### MODEL 31-19-50-26

- MicroZoom® II Body
- Photobinocular H.P.\* Beam Dividing head
- 10 x H.P. Wide Field Eyepieces (pair)
- Quadruple Centerable Nosepiece
- 2.25 x H.P. Objective
- 8 x H.P. Objective
- 25 x H.P. Objective Tungsten-Halogen H.P. Illuminator (20W)
- Coarse and Fine Focusing **Block**
- Continuously Variable Transformer

#### LONG WORKING DISTANCE **OBJECTIVES**

Provide a minimum of 0.51 in. (12.9mm) working distance between standard objectives and device under test. 0.49 in. (12.5mm) minimum working distance with optional 50X objective.

#### **BRIGHT FIELD ILLUMINATION**

Bright field vertical illuminator, reflecting design with twice the light.

## **CAMERA PORT**

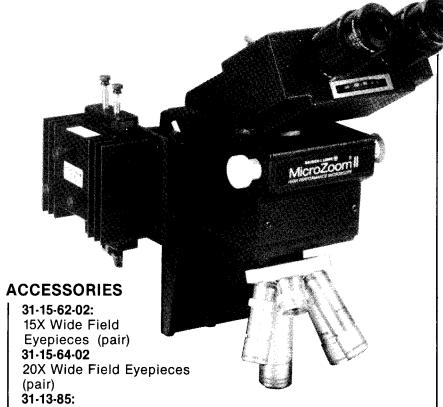
Balplan Photobinocular Beam Dividing Head provides capability of adding CCTV or photomicrography kits.

#### **WIDE MAGNIFICATION** RANGE

Three standard objectives (2.25X, 8X, 25X) provide a magnification range of 22.5X to 500X when used with 10X eyepieces and 1:2X zoom system. Optional 50X objective provides 1000X manification with 10X eyepieces.

#### **ERECT IMAGE**

Corrects for reversal inherent in metallurgical microscopes.



50X H.P. Objective

42-12-45-01:

CCTV Adapter, 1 in.

31-30-14:

**Amplifier Attachment** 

42-12-47-37:

Polaroid Camera Kit, 3-34 x

42-12-47-28:

Polaroid Camera Kit, 4 x 5 less 42-16-20 Film Holder

31-34-70:

Blue Filter, 2 in. diameter 31-35-61:

Green Filter, 2 in. diameter 31-31-81-01:

Illuminator Bulb, spare

\*High Performance: Improvement over MZI

### TABLE OF RESULTANT MAGNIFICATION

Objective	Characteristic	Eyepieces		
		10X	15X	20X
2.25X 0.042 NA	Magnification Working Distance Field of View	22.5X-45X 1.16 in. (29.5mm) 0.34 in0.18 in. (8.76mm-4.6mm)	33.75X-67.5X 1.16 in. (29.5mm) 0.28 in0.14 in. (7.20mm-3.50mm)	45X-90X 1.16 in. (29.5mm) 0.22 in0.11 in. (5.50mm-2.90mm)
8X 0.15 NA	Magnification Working Distance Field of View	80X-160X 0.78 in. (19.9mm) 0.10 in0.05 in. (2.54mm-1.39mm)	120X-240X 0.78 in. (19.9mm) 0.08 in0.04 in. (2mm-0.93mm)	160X-320X 0.78 in. (19.9mm) 0.09 in0.03 in. (1.52mm-0.80mm)
25X 0.31 NA	Magnification Working Distance Field of View	250X-500X 0.51 in. (12.9mm) 0.03 in0.02 in. (0.80mm-0.43mm)	375X-750X 0.51 in. (12.9mm) 0.02 in0.01 in. (0.6mm-0.30mm)	500X-1000X 0.51 in. (12.9mm) 0.02 in0.01 in. (0.49mm-0.26mm)
50X 0.45 NA	Magnification Working Distance Field of View	500X-1000X 0.49 in. (12.5mm) 0.02 in0.01 in. (0.40mm-0.20mm)	750X-1500X 0.49 in. (12.5mm) 0.01 in0.006 in. (0.3mm-0.15mm)	1000X-2000X 0.49 in. (12.5mm) 0.01 in0.005 in. (0.25mm-0.125mm)



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