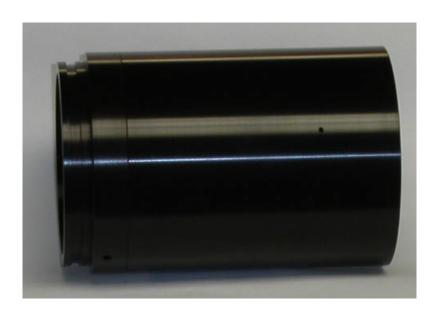
MICROPROBE OPTICS

MODEL MSO-3X



APPLICATIONS

- ELECTRONIC BOARD INSPECTION
- GEOCHRONOLOGY
- MICRO-THERMOMETRY
- MICROIMAGING
- FLUORESCENCE ANALYSIS
- MATERIAL ANALYSIS
- SPECTRAL ANALYSIS

The MICRO-PROBE OPTICS MODEL MSO-3X is one of a family of multi spectral optical collecting systems, which can be used to collect energy for the measurement of point sources and images from the ultraviolet to the far infrared (.2-20 microns). The optical assembly can be supplied with multiple imaging planes to accommodate measurement using different sensors simultaneously. The optical assembly is modular, so that it can be configured to meet different applications.

The MICRO-PROBE OPTICS MODEL MSO-3X in its basic configuration is all reflective, and is diffraction limited at 200 nm with a 5-micron spot on axis. The unique nature of the optics is its large field of view, long working distance, fast F/number, interfacing with outside sensors through all standard interfaces.

ADVANCED PHOTONICS INTERNATIONAL, INC.

The MICRO-PROBE OPTICS MODEL MSO-3X offers high-resolution imagery with a full set of interfaces to cover most applications. The Optical assembly is mounted in a rugged housing with easy access to focal planes.

SPECIFICATIONS

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SPOT SIZE	4 mm	
WORKING DISTANCE	254mm	
BACK FOCAL DISTANCE	158.75mm	
RESOLUTION	5 MICRONS AT .2	
	MICRONS	
F/NUMBER	3	
SPECTRAL COVERAGE	.2-20 MICRONS	
IMAGE SIZE	12mm	
COATING	AL WITH SIO	
	OVERCOAT	

The MICRO-PROBE OPTICS MODEL

MSO-3X offers several different optional modules to accommodate different measurement requirements. The optics can be supplied with the following options:

1. Beam splitters

4. Laser interfaces

2. CCD camera interfaces

5. Spectrometer

3. Detector interfaces

interfaces

OPTIONAL OPTICAL ACCESSORIES

P/N	FUNCTION	
BS-1	.2-20 microns	
DO-1	.2-20 microns	
BS-2	2 IMAGE PLANES	
	12-1 MICRON 2. 1-14 MICRONS	
BS-2	COMBINING OF EXTERNAL 10.6 LASER	
CCD-1	COMBINING OF CCD CAMERA NFOV	
CCD-2	COMBINING OF ZOOM LENS	
CCD-3	COMBINING OF CCD CAMERA WFOV	
SP-1	TRANSFER TO SPECTROMETER	

API offers modular detectors and spectral discrimination assemblies to match the desired spectral region and application.

DETECTORS

P/N	TYPE	SPECTRAL
		COVERAGE
D-1	INSB	3-5 micron
D-2	HGCDTE	3-5,8-14 micron
D-3	HGCDTE	8-14 microns
	ARRAY	
D-4	PLATINUM	1-5 microns
	SILISIDE	
	ARRAY	
D-5	PROELECTRIC-	1-14 microns
	ARRAY	
D-6	CCD ARRAY	.2-1 microns

API can offer complete instrument solutions (see our brochure **MICRO-PROBE MODEL MSP-200** which offers standard configurations to meet specific applications.)

API can offer additional optical microprobes on request. The instrument can also be supplied with the appropriate scanning assembly

Please contact our engineering staff for assistance in solving your measurement problems.

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