



AOTF Hyperspectral Imaging AOTF Microscope Video Adapter

- *Narrow bandwidth*
- *Rapid wavelength selection*
- *Intensity control*
- *Hyperspectral imaging*
- *C-mount interface*
- *Mounted with any C-Mount video port*
- *Camera Kit*



Brimrose Corporation of America has introduced a new series **VA200 of Acousto-Optic Tunable Filter (AOTF) Microscope Video Adapters**. These Adapters are designed for visible or NIR spectral ranges. They have an international standard C mount mechanical interface, which can be mounted with any C-Mount video port on the microscope. The VA200 AOTF system with Brimrose Synthesizer Electronics provides narrow bandwidth, rapid wavelength selection, and intensity control. The designed wavelength ranges depends on the customer's microscope and Brimrose's AOTF device. The AOTF Microscope is designed to have high spatial resolution of up to 2560 x 1920 pixels using 6.4 x 4.8 mm camera sensor area.

The **VA 200 Microscope Video Adapter System** consists of a microscope tube and an objective to allow the unit to work as a stand-alone microscope. Also, we provide a Camera Kit to allow the unit to become a **CAMERA VIDEO ADAPTER**. The Camera Kit includes a camera lens adapter and two zoom lenses covering field of the view from 1.5 to 13 deg. The VA200 unit is aligned and tested with these lenses.

Applications:

- Laboratory and Industry Applications
- Biology and Biomedical Research
- On-Line Quality and Process Control in Microelectronic Industry
- Normal, Fluorescence, and Raman Spectral Imaging in Biomedical Industry Drying
- Environmental Science and Remote Sensing
- Agriculture Monitoring
- Other OEM Applications

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AOTF Hyperspectral Imaging AOTF Microscope Video Adapter

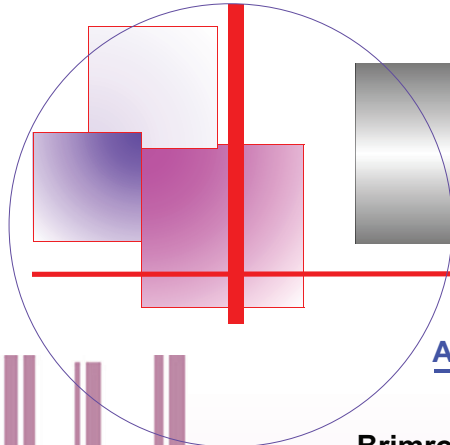
MODEL # VA200-.40-0.65-L, VA200-.45-0.75-L, VA200-.55-1.0-L and VA200-.9-1.7-L
Specifications:

Specifications	VA200-.40-0.65-L	VA200-.45-0.75-L	VA200-.55-1.0-L	VA200-.9-1.7-L
Device Type	Image Quality AOTF			
Wavelength range *	400-650 nm	450-750 nm	550-1000 nm	900-1700 nm
Spectral Resolution	2-6 nm	2-6 nm	2-6 nm	5-20 nm
Spatial Resolution	Up to 2560 X 1920 Pixels (6.4x 4.8 mm Camera Sensor Area)			
Connection to Camera **	C-mount			
Field of View for Microscope	1.6 mm with 4x objective lens 0.64mm with 10x objective lens 0.16mm with 40x objective lens			
For Camera Sensor Area ***	6.4 x 4.8 mm (1/2")			
Connection with Microscope	C-Mount			
Driving Power	~2 Watts			
RF Connector	SMA			
Weight	1.5 kg			
Dimensions	W x H x D: 254 x 67 x 60 mm			

*- Others wavelengths are available upon request available upon request.

**_ Other mounts are available upon request.

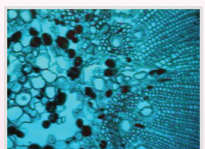
***- other dimensions of sensing area are available upon request.



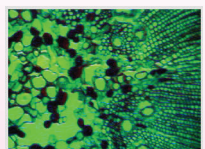
AOTF Hyperspectral Imaging AOTF Microscope Video Adapter

AOTF Microscope Image of Pine Stem over Visible Spectrum Video

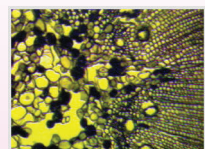
Brimrose AOTF Microscope Image of Pine Stem over Visible Spectrum (6.3X)



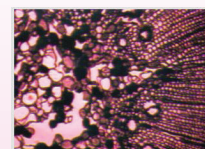
488nm



532nm



586nm



632nm

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Specifications: (Cont')

Camera Kit	For VA 200 AOTF Microscope Video Adapter
Field of View	1.5 – 6.5 deg with Nikon F-Mount Zoom Lens f70-300mm And 5.7 – 13 deg with Nikon F-Mount Zoom Lens f28-80 mm
Working Aperture	>= F8 for f 28-80mm lens, >= F5.6 for f 70-300mm lens
Working Distance	0.5m to Infinity (Based on Objective Len)

Brimrose AOTF Microscope Image of Pine Stem over Visible Spectrum (40X)

