

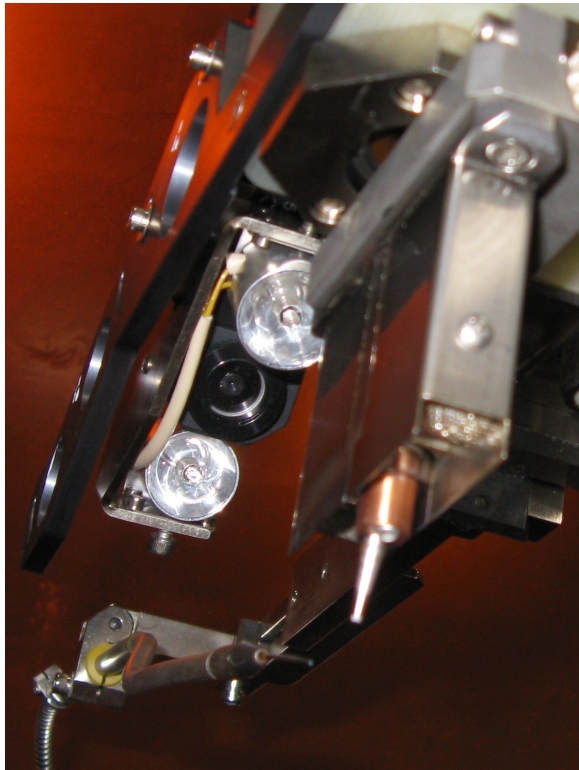
Remote Vision Systems



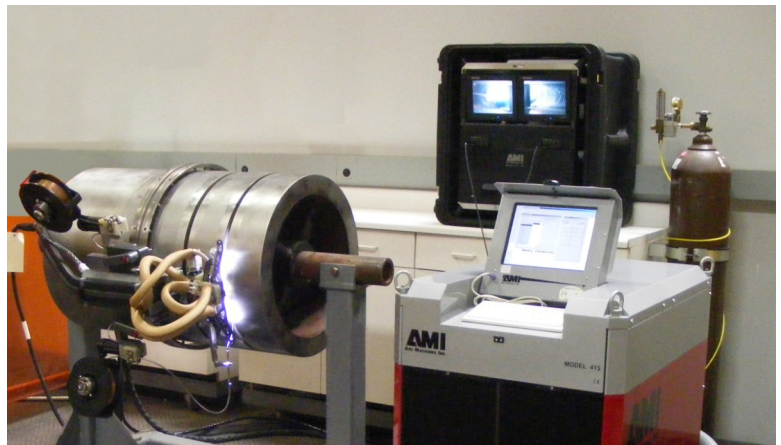
High-Resolution, Low Glare Welding Arc Viewing

ARC MACHINES, INC.®

The widest range of orbital welding equipment in the world



AMI's state-of-the-art Active-Filter Vision System provides the industry's best and most flexible welding arc monitoring and recording system. Suitable for a wide range of applications, it is easily adaptable to non-AMI welding equipment or for retrofits, with options to suite every need.



► Available as an integrated upgrade with most AMI weld heads, or as a stand-alone, turn-key package.

FEATURES

- Multiple camera configurations
- Water cooling
- Illumination (optional)
- Picture-recording (optional)



Leading



Trailing



Standard Camera Systems

At the heart of the AMI Vision Systems is the special, active-filter camera assembly.

The basic AMI arc viewing camera system consists of:

- Camera Assembly
- Camera Amplifier/Controller
- Video Monitor
- Lighting
- Cabling (video and water cooling)
- Optional extension cables (video and water cooling)



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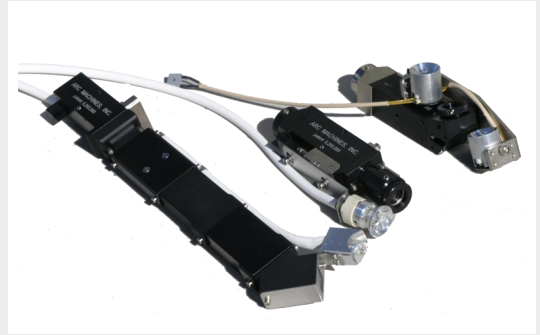
HIGH-RESOLUTION ACTIVE-FILTER VISION SYSTEM

CAMERA ASSEMBLY

Each camera assembly contains:

- A solid state CCD camera with a specific geometry for the receiver chip
- Optics that filter specific light frequencies from the arc view
- An optical lens system to magnify the picture and to set the viewing width and focal length
- A water cooled housing for camera cooling from radiant heat
- A series of lens and mirror assemblies and housing to achieve the best view angle and camera position required for the job

A variety of lens assembly configurations are available.



- ▶ Because the AMI optical system uses an active light filtering technique there are no additional controls or interfaces required between the camera system and the welding equipment.
- ▶ The automatic electronic shutter speed control used in the video camera automatically compensates for the light intensity differences between the welding and non welding modes.

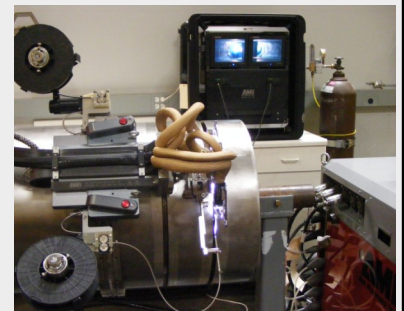
CAMERA SYSTEMS

Many different camera styles are available for a wide variety of applications.

Selection of the best camera for a specific job depends on several key points:

- The relationship between the torch and the camera assembly mounting position
- The required width of the view
- Obstructions in the torch area
- Clearances in the weld zone and torch area

Remote DV Vision System with
Model 415 Power Supply and
Model 52 Weld Head ▶



**For further information please visit our website
or contact us at 1-818-896-9556**

Leaders & Innovators in Automated Orbital Welding



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