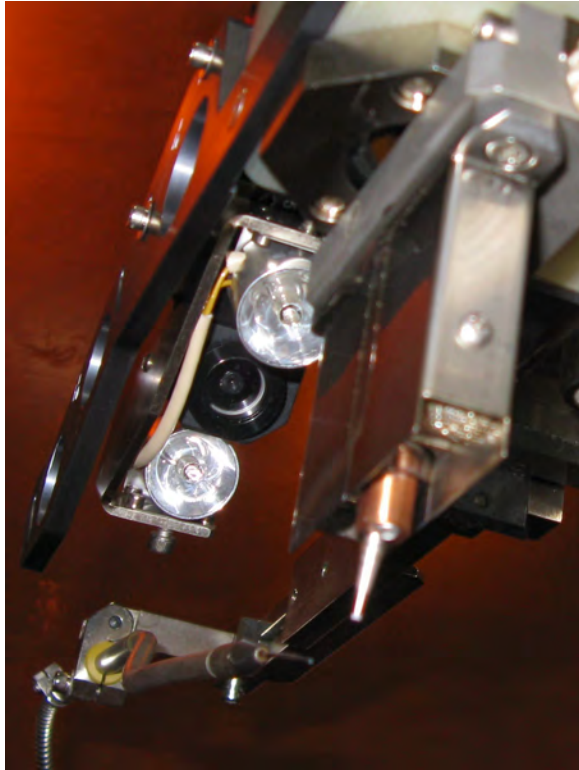


Remote Vision Systems

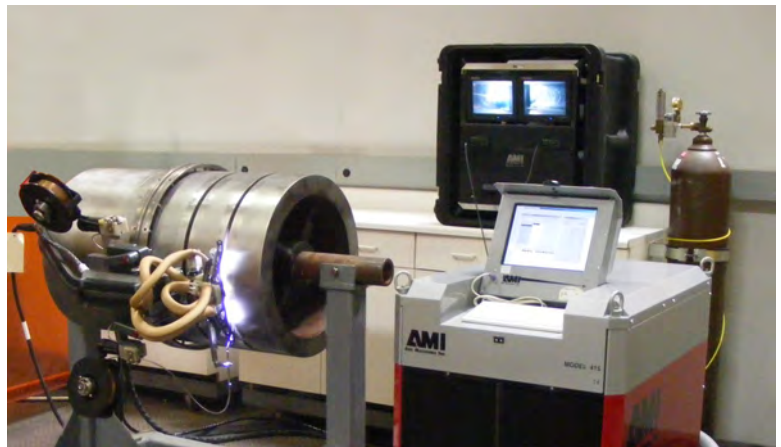
AMI

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 suit every need.



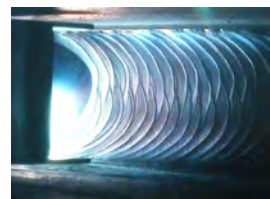
► Available as an integrated upgrade with most AMI weld heads, or as a stand-alone, turn-key package.

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 cameras are available for a wide variety of applications.

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

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

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



Leaders & Innovators in

Automated Orbital Welding

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



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