



## AV-8B Night Attack HUD Camera



- ◆ Two-piece camera.
- ◆ Night attack version of the AV-8B Harrier.
- ◆ The periscope is physically separated from the electronic unit and connected by a flat ribbon cable.
- ◆ For either the day or night versions, no changes were made to the following:
  - ◇ mechanical mounting provisions
  - ◇ electrical input connector
  - ◇ pins
- ◆ The prime advantage of this system is that it eliminates the optical periscope on both day and night attack version cameras.
- ◆ The new periscope is attached atop the upfront control panel and looks directly through the combining glass of the HUD.
- ◆ The resolution of the system is significantly improved due to the elimination of the optical periscope assemblies used in both day and night versions.
- ◆ This system will provide target definition ranges of 5,000-6,000 feet slant ranges.
- ◆ The electronics, lenses, and all other parts of the system are completely interchangeable for the day and night attack version cameras.



### Photo-Sonics International Ltd

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### Photo-Sonics, Inc.

WORLD LEADERS IN AIRBORNE IMAGING SYSTEMS

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## FEATURES

- ◆ Automatic Exposure Control with lens iris
- ◆ Adjustable air-to-ground exposure lock (0-10 sec)
- ◆ Visual event mark
- ◆ +28 Vdc operating voltage
- ◆ Internal or external sync
- ◆ Pickup device: Interline-transfer hyper HAD CCD, 1/2"
- ◆ Horizontal resolution:
  - ◇ NTSC: 470 TV lines
  - ◇ PAL: 460 TV lines
- ◆ Picture elements:
  - ◇ NTSC: 768(h) x 494(v)
  - ◇ PAL: 752(h) x 582(v)
- ◆ S/N ratio:
  - ◇ NTSC: >-48dB
  - ◇ PAL: >-46dB
- ◆ Sensitivity: 2000 Lux at f/5.6
- ◆ Minimum sensitivity: 4.5 Lux at f/1.2
- ◆ Shutter speeds: 1/60th second, 1/100,000 second, flickerless, and CCD iris (AEC), Off for A/0-10A
- ◆ Automatic AGC
- ◆ Gamma: 0.45/1
- ◆ White balance: ATW, 3200K, 5600K, and Manual
- ◆ Video formats: Y/C component and NTSC composite
- ◆ Weight: electronic unit: 1 lb 12 oz, periscope: 6 oz, total: 2 lb 2 oz
- ◆ 12 month warranty

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25°C to +71°C
Storage Temperature	-55°C to +80°C
Altitude	43,000 feet
Over Pressurization	-15,000 feet
Humidity Operating	+90% RH, 60°C, 2 hours
Humidity Storage	48 hours (two 24 hour cycles) <ul style="list-style-type: none"> <li>◇ 95% RH, +50°C, 6 hours</li> <li>◇ 85% RH, +38°C, 16 hours</li> </ul>
Vibration	Random, 6 G rms, 5 minutes duration
Shock	9 Gs, 11 msec., 1/2 sine wave, 3 axes
Acceleration	Lateral (Nx): 6 Gs Longitudinal: 6 Gs Normal (+Nz): +8 Gs Normal (-Nz): 6 Gs

## OPTICAL SPECIFICATIONS

Lens Focal Length	FOV Degrees		FOV Milliradians		Application
	Horiz	Vert	Horiz	Vert	
14.7mm, f1.4	24.1	18.2	420	317	HUD-Special



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