

Features

- High Sensitivity Monochrome CCD Camera, NIR compatible
- Wide Dynamic Range and Excellent S/N Ratio
- >500 Horizontal TV Lines Resolution
- High Speed Shutter Control (CCD-iris)
- Ruggedized for Harsh Environments
- Superior Heat Transfer for High Temperature Operation
- AGC on-off, Auto White Balance on-off
- Miniature Size (See Drawing)
- Optional RS-232 Remote Interface
- Optional CCD Sensor Orientation
- Optional User Defined Settings (S Opt.)
- Optional Vacuum Operation Capability (V Opt.)

General Description

The RSC-AM113 is a high resolution monochrome CCD video camera. This camera is excellent in applications such as machine vision, object recognition, medical research, process monitoring, airborne imaging and remote observation. Low light sensitivity is 0.05 Lux @ F1.4 (30 IRE) (or 0.0065 Lux, 30IRE, AGC On) with it's 1/3" monochrome hyper HAD imager. The RSC-AM113 offers many standard features in a compact package including: high speed shutter, manual or automatic Gain and RS-232 control interface.

For operation with MIL-STD-704 power sources use the optional RPS-77E. This rugged power supply and breakout box provides regulated 12 VDC to the camera from 20-30 VDC unregulated. The RPS-77E also provides standard BNC connectors for video output.



RSC-AM113 (without lens)

Video Specifications

Pick-up Device	Interline Transfer Hyper HAD CCD
Picture Elements	768(H) x 494(V)
Signal System	RS-170A (Mono)
Lens Mount	17mm, (or C-mount w. adaptor)
Sync Systems	Internal / External, HD/VD
Horizontal Resolution	>500TVLines
Sensitivity	0.0065 Lux, 30IRE, AGC max
Auto Shutter	1/50 to 1/100,000 second
S/N ratio	Better than 46dB (cable length may affect performance)
Gamma	0.45 / 1
AGC	On / Off, range 0 to 28dB
Power Requirement	10.5 to 15VDC, 2.4 Watts
Weight	6.2 ounces (176 grams)

Environmental Specifications*

Storage Temperature	-55°C to +80°C
Operating Temperature	-40°C to +65°C (+80° for 30 min.)
Altitude (Operational)	Sea level to 60,000 ft+
Altitude (Non -operational)	-15,000 ft to 60,000 ft+
Altitude (Decompression)	23,000 ft to 43,000 ft, 15 sec
Storage Humidity	95% (50°C) to 85% (38°C)
Operating Humidity	5% to 90% relative humidity (non condensing)
Vibration (Operational)	7G's RMS Random 15-2,000Hz
Acceleration (Operational)	12G's in all axes
Shock (Operational)	9G's, 11ms half-sine, 3 shocks each direction. 20G's 11ms half-sine, 1 shock each direction
EMI	MIL-STD-461, RE02

*Design goals

Specification subject to change without notice