

Features

- Superior Heat Transfer for High Temperature Operation
- Wide Dynamic Range and Excellent S/N Ratio
- High Sensitivity Complementary Color Filter
- High Resolution (470 Horizontal TV Lines)
- AGC on-off, Auto White Balance on-off
- Ruggedized for Harsh Environments
- NTSC/PAL or Y/C Video Output
- Miniature Size (See Drawing)
- High Speed Shutter Control (Auto Iris CCD)
- Optional RS-232 Remote Interface
- Optional CCD Sensor Orientation
- Customer Specified Remote Cable Lengths, Up To 24"


General Description

The RSC-A354 is a high resolution camera that offers the user outstanding color fidelity and full broad-band response for high resolution color applications. 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 3lux at F1.2 thanks to its 1/4" CCD hyper HAD imager. The RSC-A354 offers many standard features in a compact package including: composite or Y/C output; high speed shutter; TTL (through-the-lens) auto/manual white balance and AGC on/off switch.

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

Video Specifications

Pick-up Device	Interline Transfer Hyper HAD CCD
Picture Elements	768(H) x 494(V)
Signal System	NTSC or Y/C, Selectable PAL or Y/C, Selectable*
Lens Mount	17mm, (or C-mount w. adaptor)
Sync Systems	Internal / External, HD/VD
Horizontal Resolution	470TVLines (460 TVL)*
Sensitivity	3Lux @ F1.2, (AGC on)
Auto Shutter	1/60 to 1/4,000 second 1/50 to 1/4,000 second*
Adjustable Shutter	1/60 to 1/100,000 second 1/50 to 1/100,000 second*
S/N ratio	Better than 48dB
Gamma	0.45 / 1
AGC	On / Off
Power Requirement	12VDC, 2 Watts
Additional Feature	CCD electronic auto shutter (CCD iris)
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

*PAL version, RSC-A354P

**Design goals

Specification subject to change without notice

