

RSC-B93/RSC-B103

Ruggedized Color Cameras

Features

- 💆 1/3" Super HAD II CCD Sensor
- 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)
- White Pixel Compensation
- SAGC on-off, Auto White Balance on-off
- Ruggedized for Harsh Environments
- NTSC/PAL or Y/C Video Output
- 🥯 Miniature Size (Smaller than RSC-A Series, See Drawing)
- High Speed Shutter Control (Auto Iris CCD)
- RS-232 Remote Interface



The RSC-B93 and RSC-B103 cameras are high resolution cameras that offer outstanding color fidelity and full, broadband response for high resolution color applications. These cameras are excellent for airborne applications, and other harsh environments. Low light sensitivity is 1.5 lux at F1.4 thanks to the 1/3" Super HAD II Imager. These cameras offer 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 functionality. PAL versions are available (RSC-B93P and RSC-B103P).

The RPS-A77 and RPS-78 are available for operation with MIL-STD-704 power sources. These rugged power supplies provide regulated 12 VDC to the camera from 20-30 VDC unregulated sources.

Specifications

Weight

Pick-up Device 1/3" Super HAD II CCD Picture Elements 768(H) x 494 (V) NTSC or Y/C, Selectable Signal Systems Lens Mounting 17mm, (or C-Mount adaptor) Svnc Svstems Internal/External, HD/VD Horizontal Resolution 470 TV Lines Sensitivity 1.5 Lux, @ F1.4 (AGC on) Shutter Speed Up to 1/100,000 sec. S/N Ratio Better than 48 dB (AGC off) **AGC** On/Off 10.5-15 VDC, 1.5 W Power Requirements

3.0 oz (84g)



RSC-B103



RSC-B93

Environmental Specifications

Military Standard: Storage Temperature Operating Temperature

Operating Temperature Altitude (Operational) Altitude (Decompression) Humidity (Aggravated) Humidity (Operating)

Explosive Atmosphere Vibration (Operational)

Acceleration (Operational)

Shock (Operational)

EMI

MIL-STD-810G: -54°C to +85°C (Const & Cycling) -40°C to +55°C startup & continuous -54°C after startup at -40°C

Sea Level to 60,000 ft 8,000 to 40,000 ft, 15 sec** 95% (60°C) to 85% (30°C) 5% to 95% Relative Humidity (RH) at 30°C (non-condensing) Sea Level & 40,000 ft , +55°C Jet Aircraft, 14.2 G's RMS Random 15-2000Hz

Helicopter, sine on random UH-60 type profile 40 G's Forward. 20 G's in other

40 G's, 15-23ms SRS Shock

3 shocks each direction MIL-STD-461F

Radiated Emissions (RE102) Fixed Wing and Helicopter

** Target values this test only. All other tests completed and passed. Consult with Sekai for the latest status / reports.

Specifications are subject to change without notice

17 June, 2011





