

Features

- 185° Horizontal Field of View
- 1/3" Inter-line type Color CCD Sensor
- Small and Light Weight
- Mirror Image selectable
- Environmentally Sealed Housing
- Available in Monochrome NIR
- PAL version available (RBC-180PER-01)


General Description

The Sekai RBC-180ER-01 is a rugged, compact, color CCD video camera module, capable of a 185° horizontal field of view. The camera is well protected inside an environmentally sealed aluminum housing, finished in Lusterless Desert Tan (customer specified finish available). The housing provides complete EMI protection, and can "breathe" through a humidity filter, minimizing maintenance requirements during long term storage.

Environmental Specifications*

Storage Temperature	-46°C to +71°C
Operating Temperature	-40°C to +60°C
Altitude (Norm. Operational)	Sea Level to 50,000 ft. +
Altitude (Non-Operational)	-15,000 ft. to 60,000 ft. +
Explosive Atmosphere	Sea Level to 50,000 ft. +
Storage Humidity	95% (50°C) to 85% (38°C)
Operating Humidity	5% to 100% relative humidity (condensing)
Vibration (Operational)	MIL-STD 810C, 514.2 (VIII), 70 hrs
Shock (Operational)	MIL-STD 810C, 516.2 (I), 30g, 3 dir
EMI	MIL-STD-461, Radiated RS02, RS03, 50V/m RE02

*Environmental specifications are design goals.

Specifications

Image Sensor:	1/3" Inter-line type CCD
Scanning System:	2:1 Interlace
TV System:	NTSC
Effective Pixels:	768(H) x 494(V)
Field of View:	185° (H)
Scanning Frequency:	15.734KHz (H) 59.94Hz (V)
Minimum Illumination:	1.0lx @ F1.4 / Video Output 50% / AGC=ON Max
S/N Ratio:	48dB or greater (Luminance signal AGC=OFF)
Resolution:	450 TV Lines (Luminance signal at lens center)
Video Output:	1.0Vpp / 75 ohms
Electronic Shutter (Iris):	1/60 to 1/120,000 sec. selectable
Gamma Correction:	$\gamma = 0.45$
Setup Level Correction:	Auto
AGC (0 dB to +18 dB):	ON/OFF
White Balance:	ATW/AWB
BLC feature:	ON/OFF selectable
Mirror function:	ON/OFF selectable
Power Requirement:	DC +12V \pm 10%
Current Consumption:	Max. 90mA @ DC12.0V
Weight:	Approx. ~322 g

Specifications are subject to change without notice.

09 October, 2013

