

RBC-180ER-01

Rugged 185° HFoV Camera

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) 5% to 100% relative Operating Humidity 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: y = 0.45
Setup Level Correction: Auto
AGC (0 dB to +18 dB): ON/OFF
White Balance: ATW/AWB

White Balance:

BLC feature:

Mirror function:

Power Requirement:

ATW/AWB

ON/OFF selectable

DC +12V ± 10%

Current Consumption: Max. 90mA @ DC12.0V

Approx. ~322 g

Weight:

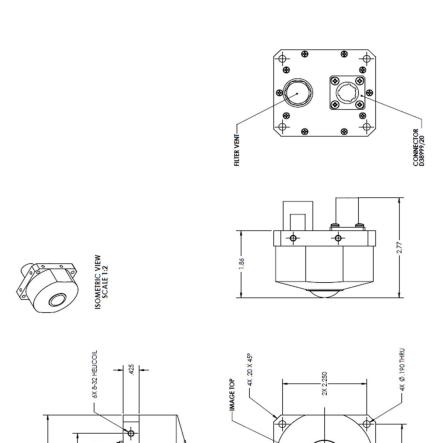
Specifications are subject to change without notice

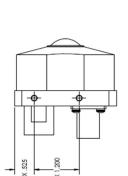
09 October, 2013



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	CONNECTOR PINOUT
PIN NO.	SIGNAL IYPE
-	GND (12VDC RETURN)
2	12VDC
8	VIDEO GND (SHIELD)
4	VIDEO
2	MIRROR MODE (STANDARD)
9	NC