

Features

- Camera for Head Up Display, and Pilot's View Applications
- Adjustable Field of View
- Defective Pixel Correction
- Compact Size, Minimal Obstruction
- Vibration & Shock Resistant Iris System
- Fully Integrated Camera, No External EU



General Description

The RSC-BH183 is a ruggedized high resolution color CCD camera including a compact variable field of view lens with motorized iris. The camera is specifically developed for harsh environments and applications where an optimal field of view is required. The motorized iris lens with ND-spot filter adjusts automatically for changing light conditions providing a great dynamic range.

Technical Specifications

Signal System:	NTSC (Y/C) PAL optional; RSC-BH183P
Pick-up Device:	1/3" Super HAD II CCD
Picture Elements:	752(H) x 582(V)
Horizontal Resolution:	470 TV Lines
Sensitivity:	1.5lux @ F1.4 (AGC On)
Focal Length Range:	6-18mm
Field of View:	43° x 34° to 15° x 12° (H x V)
Aperture:	f/2.8 to f/128 (incl. ND-spot)
Sync System:	Internal/External, HD/VD
Shutter:	Fixed 1/50
S/N Ratio:	Better than 46 dB
AGC:	On / Off (selectable)

Field of View Range

	Wide		Narrow
Focal Length	6 mm	→	18 mm
H FoV	43°	→	15°
V FoV	34°	→	12°

Environmental Specifications*

Test Standard:	RTCA DO-160F applicable limits, procedures & categories:
Storage Temperature	-55°C to +85°C (4.5.1, 4.5.3, B1)
Operating Temperature	-40°C to +70°C (4.5.2, 4.5.4, B1)
Temperature Variation	-55°C to +85°C, 5°C/min (5.3.1, B)
Altitude (Operating)	25,000 ft (4.6.1, B)
Humidity	95% RH >65°C, 2 cycles (6.3.2, A)
Shock (Operational)	6 g's @ 11ms (6.3.2, B)
Shock (Crash Safety)	20 g's @ 11ms (7.3, B)
Vibration (Performance)	Curve F (3.34 Grms), 1 Hr (8.8.3, S)
Explosive Atmosphere	+85°C, 9.4.2, E
Fungus Resistance	Analysis, Materials List, 13.5, F
Magnetic Effect	±1° Deviation @ 1m, 15.3, A
Power Input	Normal 16.6.1, A – Abnormal 16.6.2, A
Voltage Spike	±56V, 17.4, B
Audio Frequencies	10 – 150kHz, 18.3.1, R
Induced Susceptibility	19.3.1~19.3.4, ZC
RF Susceptibility	20.4, Y & 20.5, Y
RF Emissions	21.4, L & 21.5, L
ESD	15KV, 10 pulses, ±polarity, 25.5, A

* Target values / tests, not yet tested. Consult with Sekai for the latest status. Specifications are subject to change without notice.

Specifications are subject to change without notice.

19 May, 2012

Export of this product outside the United States of America without prior written authorization from the US Department of State is strictly prohibited.



RSC-BH183

Ruggedized HUD Camera

