

HEAD UP DISPLAY CAMERA



- High resolution color CCD camera
- Records HUD symbology and pilot view
- Adjustable field of view
- Motorized iris control
- SEKAI HUD cameras are now in operation on more than 10 different aircraft types



RSC-Series HUD Camera from Sekai
“One size fits all”

General Description

The RSC-384 -series are ruggedized high resolution color cameras including a compact variable field of view lens with motorized iris. Auto iris control is provided via driver circuitry located in the camera EU. These cameras are specifically developed for applications where an optimal field of view is required such as for recording HUD information in a fighter- or trainer aircraft. The camera type is available in several remote head configurations and also as integrated single module versions.

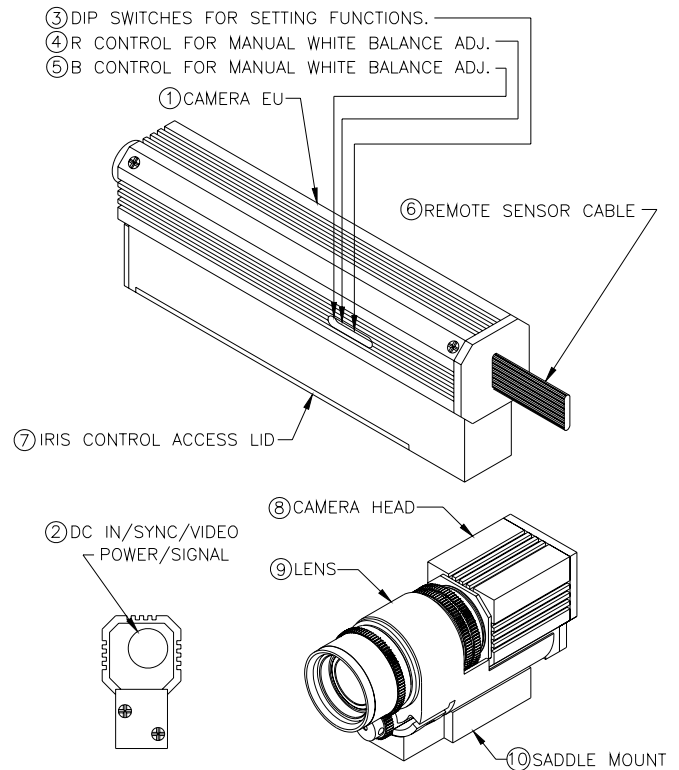
Technical Specifications

Signal System	NTSC, PAL (Y/C or Composite)
Image Sensor	½" IT CCD (1/3" version avail.)
Horizontal Resolution	470 TV Lines (460 for PAL)
Sensitivity	1.0 fc required for 50IRE
Maximum Illumination	Saturation at >15,000 fc
Focal Length Range:	6-18mm
Field of View:	56° x 43° to 20° x 15° (H x V)
Aperture:	f/2.8 to f/128
Iris	Motorized Auto-Iris
Sync System	Internal/External, HD/VD
Shutter	Pre set to 1/50 sec or 1/60 sec
S/N Ratio	Better than 48 dB
Power consumption	12VDC, 3W

Environmental Specifications (Design Goals)

Storage Temperature	-55°C to +80°C
Operating Temperature	-40°C to +65°C (+80°C for 30 min.)
Altitude (Nprm.Operational)	Sea Level to 200,000 ft.+
Altitude (Non-Operational)	-15,000 ft. to 200,000 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 15-2000Hz
Acceleration (Operational)	12 G's in all axes
Shock (Operational)	9 G's, 11ms half-sine, 3 shocks each direction
	20 G's, 11ms half-sine, 1 shock each direction

*Please consult SEKAI for details.
Specifications subject to change without notice.



RSC-384-XXI, LOCATION OF CONTROLS