



FEATURES

- Colour radiation tolerant camera to 1 Mrad ¹³⁷Cs
- 10:1 optical Zoom with 4x digital
- Excellent colour picture quality up to 1 krad per hour
- Compatible with R983 and C983 controllers and cables
- Variable speed pan and tilt
- Pan and tilt speed proportional to zoom
- Internal dose monitoring
- Internal temperature monitoring
- Text generation for captions
- Mirion and Pelco control system compatible
- Flash Technology enables remote software upgrades

IST-REES S983 Shielded System Camera

The new IST-Rees S983 offers a high resolution colour camera, sealed for underwater use, which is radiation tolerant to 1 Mrad. The majority of the camera is radiation tolerant to 100 Mrads with only the core Technology limiting the overall radiation tolerance. Consequently only this core technology needs to be replaced when the camera fails due to radiation. The S983 is an ideal colour camera for medium radiation environments.

The S983 can be fitted to an “in air” pan and tilt unit to provide an outstation that is compatible with the R983 and C983 controllers. This provides seamless and cost effective integration of a multi-camera system comprising of S983, C983 and R981 cameras all utilizing the same cables.

The S983 has radiation dosimetry to aid the user to determine the expected life of the camera. This can be used to replace the core technology at a convenient time. Additional features include position feedback, temperature monitoring, variable Pan and Tilt speed, proportional to zoom position Pan and Tilt speed and flash technology for remote software upgrades.

imaging systems

A Mirion Technologies Division

Featuring:



SPECIFICATIONS AND PERFORMANCE

CAMERA	
Image Sensor	¼ type Ex-view HAD CCD™
Temperature Rating (Camera Module)	0°C to 50°C (32° to 112°F)
Resolution	NTSC 470 TV Lines PAL 460 TV Lines
Zoom	10:1 optical (4.2mm - 42mm) 4:1 digital
Focus	Manual or Auto
Angle of View	46° (Wide) to 5° (Tele)
Minimum Object Distance in Air	10mm (0.4") wide angle 1000mm (39") narrow angle
Minimum Object Distance in Water	13mm (0.5") wide angle 1330mm (52") narrow angle
Iris Control	Auto or manual
Maximum Aperture	f/1.8 @ f=4.1mm f/3.0 @ f=73.8mm
Sensitivity	2.0 lux (f/1.8, 1/60 sec (NTSC) or 1/50 sec (PAL)) 0.07 lux (f/1.4, 1/4 sec (NTSC) or 1/3 sec (PAL))
Auto Gain Control	-3dB to 28dB
Electronic Shutter	Auto 1/1 to 1/10,000 sec (NTSC) 1/50 to 1/10,000 sec (PAL)
Height	217mm
Length	115mm
Width	112mm
Weight	18kg (39.6 lbs)
Construction	Tungsten & Hard Anodized Aluminum
Sealing	IP68 when connected with mating cable
Radiation Tolerance	10kGy [¹³⁷ Cs] (H ₂ O) (1 Mrad)
Operating Dose Rate	10Gy/hour (1krad/h)

PAN & TILT	
Size	430mm x 225mm x 245mm
Weight	8kg
Power Supply	24 Vdc
Pan Speed	Maximum 24°/Sec
Tilt Speed	Maximum 12°/Sec
Tilt Travel	± 90
Pan Travel	0 to 360°
Construction	Aluminium
Sealing	IP66

LIGHTING	
Aluminium Lights Sealed to IP68	2 x 50W

PART NUMBERS

R983 Camera Control Rack (Mirion)	R983CUB03A
R983 Camera Control Rack (Pelco)	R983CUD03A
R983 Camera Control Card for R983 Control Racks	C983CUA08A
C983 Camera Controller Rack (CCU)	C983MCB03A
R980 Lighting Controller Rack	R980LPB03A
R980 Lighting Controller Card	R980LPA08A
PAL Camera Assembly	S983CMA03A
PAL Camera Assembly with Two Lights	S983CMA10A
PAL Camera Outstation	S983OSA03A
PAL Camera Outstation with Two Lights	S983OSB03A
NTSC Camera Assembly	S983CMB03A
NTSC Camera Assembly with Two Lights	S983CMB10A
NTSC Camera Outstation	S983OSC03A
NTSC Camera Outstation with Two Lights	S983OSD03A
Pan and Tilt Assembly	S983PTA03A



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The above specifications may vary according to system configuration. Mirion Technologies Incorporated reserves the right to amend or change the information on this sheet without prior warning.

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