



Pan/Tilt/Zoom 2001

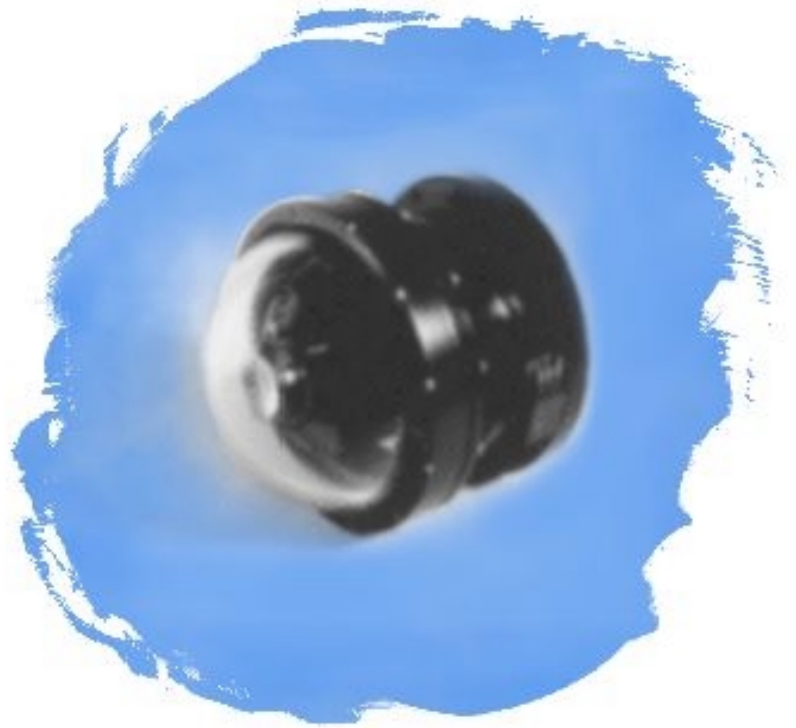
**HIGH RESOLUTION
VIDEO CAMERA WITH
PAN/TILT/ZOOM/FOCUS**

**1000 MSW DEPTH
RATING**

10:1 ZOOM; Y/C OPTION

**NO CORROSION — ALL
PLASTIC HOUSING**

**SCRATCH RESISTANT
GLASS DOME**



The Pan/Tilt/Zoom-2001 is a multi-purpose color video camera for use in underwater imaging. The camera features a high resolution video camera with built-in pan, tilt, zoom, and focus functions that are all controlled remotely. The camera optics are corrected via a hemispherical optical glass dome port. Focus ranges from close-up to infinity. The camera electronics are reverse/over-voltage protected.

The versatility and good cost/performance ratio of the PTZ-2001 camera create many possibilities for its use. Possible applications include use on ROVs, tourist and research submersibles, tether management systems, dockside and shipboard security/inspection, and scientific marine studies.

Pan, tilt, zoom, and focus functions of the camera are controlled by switching the control lines either to 12VDC or 12Vret. A control box, with joystick control of pan and tilt and with center-off rocker switches for controlling zoom and focus, is available. Custom options, including Y/C video, available to meet your specific needs.

PTZ-2001 Specifications

CAMERA

Image Sensor: 1/2-inch interline transfer CCD
Resolution: 470 lines horizontal, 375 lines vertical (NTSC) or 440 (PAL)
Video Output: Composite; Y/C optional
Video Format: NTSC, PAL
Minimum Illumination: 1.0 Lux scene illumination
S/N Ratio: Better than 47dB (AGC off)
Lens: 8.0 to 80 mm, auto iris f/1.4
Zoom Ratio: 10:1
Pan Angle: 160 deg. (including lens FOV)
Tilt Angle: 160 deg. (including lens FOV)
Field of View: Diagonal 7 deg. to 53 deg.
Horizontal 5.7 deg. to 43 deg.
Vertical 4.3 deg. to 33 deg.
Focus Range: 24 inches to infinity

MECHANICAL

Housing Material: Delrin plastic
Port Material: Optically polished borosilicate glass
Outer Diameter: 19.7 cm (7.75 in.)
Overall Length: 19.7 cm (7.75 in.)
Weight in Air: 4.3 kg (9.5 lbs.)
Weight in Water: 0.3 kg (0.6 lbs.)
Pan and Tilt Speed: 40 deg. per second

ENVIRONMENTAL

Depth: 1000 MSW

ELECTRICAL

Power: 12-16 VDC
Current: 400 mA nominal
Pin-Out (Composite Video, standard): 1 = Ground, 2 = Power, 3 = Video, 4 = Pan, 5 = Focus, 6 = Zoom, 7 = Tilt
Pin-Out (Y/C Video, standard): 1 = Ground, 2 = Power, 3 = Video-Y, 4 = Video-C, 5 = Pan, 6 = Focus, 7 = Zoom, 8 = Tilt
Camera Connector: XSL-10-BCR
Mating Connector: XSL-10-CCP
Pan/Tilt/Zoom/Focus Control: Individual control lines require connection to 12VDC or 12Vret for operation. Current < 10mA source or sink. Functions operate per Truth Table:

LINE	12VDC INPUT	12Vret INPUT	OPEN
PAN	RIGHT	LEFT	STOP
TILT	DOWN	UP	STOP
ZOOM	TELE	WIDE	STOP
FOCUS	NEAR	FAR	STOP



Specifications subject to change without notice

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