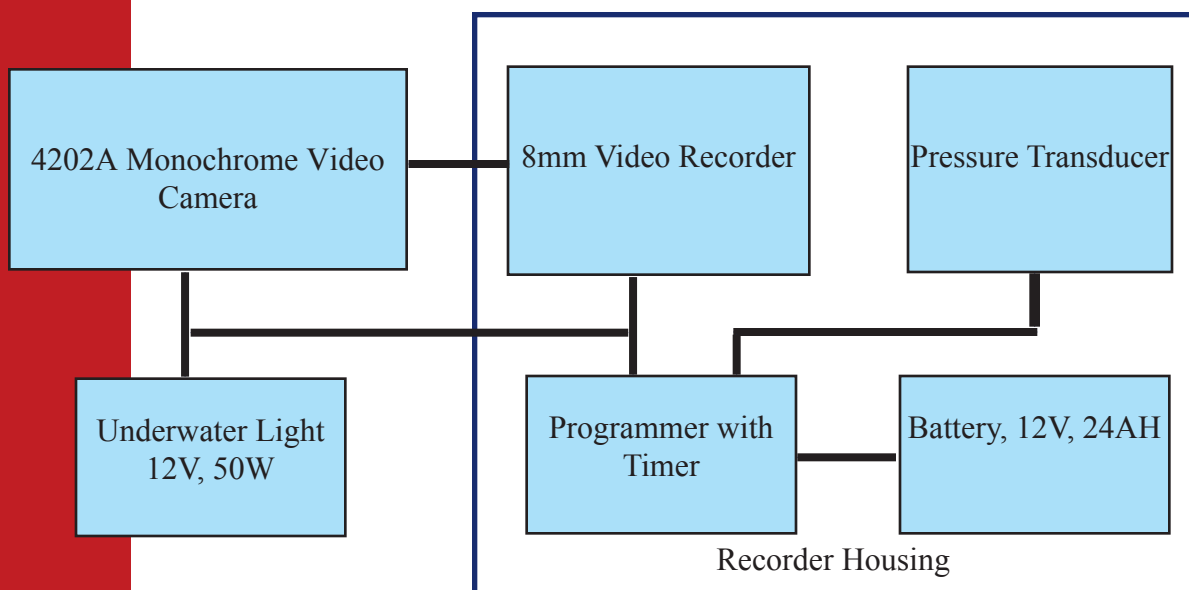


D-420-165 Self-Recording Video System

Ocean Imaging Systems specializes in design and development of custom underwater systems for specific customer requirements. The self-recording video system combines a standard product video camera and light with a custom-housed video recorder, programmer and battery.



While capable of operation with any NTSC video camera, the system has been designed to operate with a sensitive low-light monochrome video camera for high quality imaging under less-than-ideal conditions.

The system operates in several modes:

- via an internal timer where following a preprogrammed delay, the camera and light power up automatically, or
- via a pressure transducer where the system will power up at a preset depth. Multiple depth settings (in 50 meter increments) can be selected.

System operation requires setting the programmer to depth or time interval operation and selecting the desired intervals. When the system reaches the selected operating conditions, the video camera and underwater light are powered on and the video recorder is started.

Following recovery, the housing is opened to recharge the battery and change the video tape. Operation mode and settings can also be changed at this time for subsequent lowerings.

OIS Model 4202A Camera Specifications

Sensor: 1/2" Interline transfer CCD image sensor
Number of Pixels: 768(H) x 494(W)
Lens: Auto-Iris, 6mm, F1.4
Field of View: 56 degrees horizontal, 43 degrees vertical
Video Output: Composite Video, 1.0Vp-p, 75 Ohm Unbalanced
Resolution (Horizontal): better than 500 TVL (center)
Minimum Illumination: better than 0.1 lux scene
S/N Ratio: 50dB(AGC Off)
Power Supply: DC 12V at 100 mA
Operating Temperature: -10C to +40C
Dimensions: 3.25" diameter, 8" long, excluding connector
Weight: 3.25 lbs in air, 1.25 lbs in water
Material: Aluminum, anodized
Depth Rating: 1000 meters



Self Recording Video System Specifications

Format: Hi-8/Standard 8mm Analog Video
Resolution: 400 TV lines (horizontal)
Recording Time: 2 hours, 30 minutes (with P6-150 cassette)
Video Input/Output: Composite
Audio Input/Output: Stereo Phono
Programmer: Microprocessor controlled with timer and pressure transducer activation.
Lighting: 12V, 50W, halogen bulb
Battery Capacity: 2 X 12VDC @ 12AH (parallel connected for 24AH)
Operating Current: 4.8A
Standby Current: less than 50 mA
Dimensions: 7" diameter, 22" long, excluding connectors
Weight: 50 lbs in air, 37 lbs in water
Material: Aluminum, anodized
Depth rating: 1000 meters

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