

Model 4400 Digital Still Camera



The Ocean Imaging Systems model 4400 Digital Still Camera provides high-resolution still image capture (4 Mpixels) with 4X optical zoom and video viewfinding capabilities for use in attended (ROV or tow sled) or autonomous (timed acquisition for extended deployments or via bottom-contact switch) situations in both shallow (2000 meter) and deep (6000 meter) still-imaging applications. A red-laser illuminating scaling target is available as an option.

The camera features a through-the-lens (TTL) exposure control which, when coupled with the new model 3883 automatic strobe, provides maximum image quality by adjusting strobe duration to match scene conditions. The camera can also be interfaced to the standard Ocean Imaging Systems flash product line.

Selectable video format (PAL or NTSC), with long long video amplifier, and 9600 baud camera control (RS-232 or RS-485 signal levels), permit flexible configuration and integration within the support platform.

Power management capabilities make the camera suitable for battery-powered applications as the camera can be placed in a hibernate mode where it draws minimal current. An external switch closure or internal timer event will wake the system up (including power control to the companion 3883 strobe) and return the system to its programmed operational mode.

The camera is capable of storing more than 500 full-resolution images at fine compression with 1Gbyte microdrive storage. Images are offloaded via the camera USB port.



OIS Model 4400 Camera Specifications

Camera

Sensor: 1-1/8" high density color CCD, total pixels: 4.13 million
Image Size: 2272 X 1704 (highest resolution)
Resolutions: 2272 X 1704, 1600 X 1200, 1280 X 960, 1024 X 768, 640 X 480, 2560 X 1520 (3:2)
Storage: 1Gbyte microdrive
Compression: High (No compression), Fine, Normal, Basic
Capacity: High - 80 images, Fine - 528 images, Normal - 1056 images, Basic - 2088 images
Lens: 7.85 - 32mm zoom (35mm camera format equivalent 38-155mm); f/2.6-f/5.1 with 0.63X wide angle converter
Field of View: 70 degrees diagonal with wide-angle option available
Video Output: Composite Video, 1.0Vp-p, 75 Ohm Unbalanced, NTSC or PAL (user selectable)
Sensitivity: ISO equivalent approximately 100, 200, 400, 800 or Auto
Flash Sync: External with TTL automatic exposure
Laser Option: Four red-laser scaling illuminator targets spaced in 2-inch square pattern (2.5mW at 650 nm each)
Power: 10.5 to 35 Vdc, 4.6W operating (peak), <10mW hibernate

Software

Setup: RS232/RS485 serial port operating at 9600 bps. Terminal emulator software required on setup computer
Control: Via serial port or triggered via switch closure or via internal timer (Special housings recommended for extended deployments)
Data Offload: USB to computer running provided software (Windows 98 (or better) or Macintosh OS 9.0 (or better) supported)

Mechanical

Dimensions: 5 inches (12.7 cm) diameter, 10 inches (25.4 cm) long, excluding connector
Weight: 12 lbs in air, 5 lbs in water (standard housing)
Depth Rating: 2000 meters (standard), 6000 meter (optional)
Material: Aluminum, anodized (standard), Stainless Steel (optional), Titanium (recommended for extended deployments)



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Specifications subject to change without notice