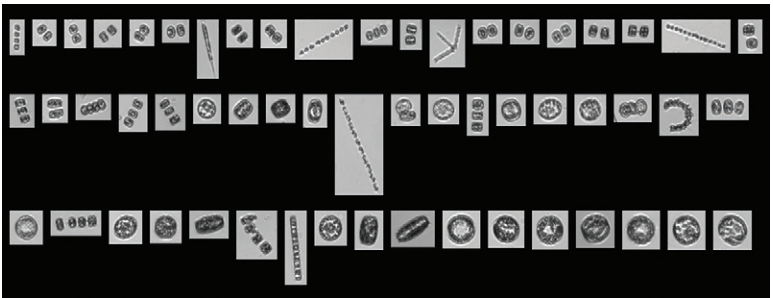
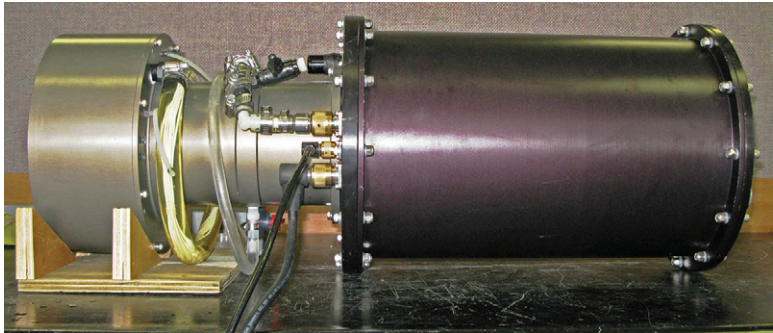


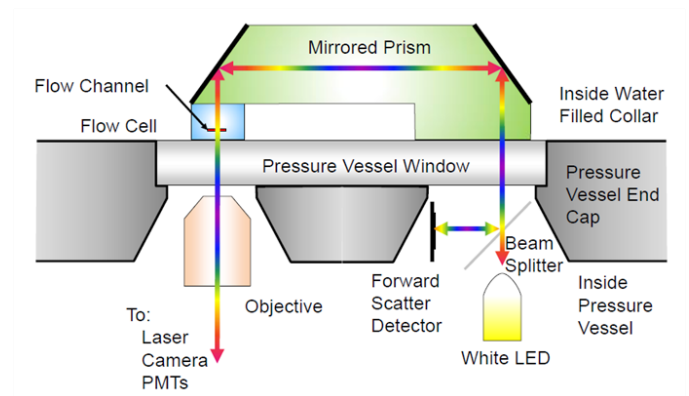
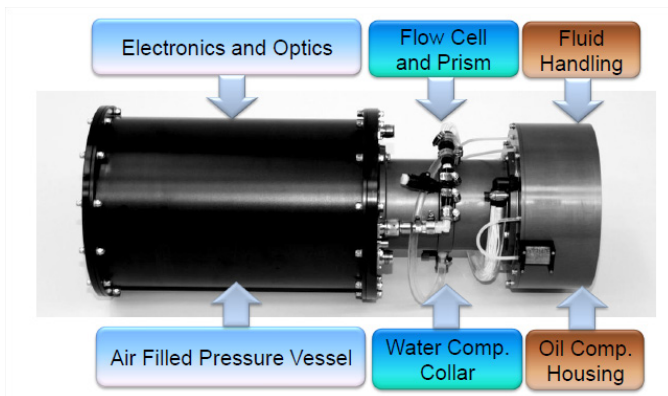


Submersible FlowCAM[®] Specifications



Item	Description/Capabilities
Particle Sizes and Objective Replacement	4X Magnification (~40X Overall Mag) Flow Cell 300µm 10X Magnification (~ 100X Overall Mag) Flow Cell 80µm
Power Consumption	Peak: 96W, Normal Operation: 67W, Sleep 1.2W
Sample Volume Processing	With 4X Objective and 300µm Flow Cell: Up to 3mL/min With 10X Objective and 80µm Flow Cell: Up to 0.75mL/min
Optical	Laser: 30nW 532nm Solid-State (Optional Laser Wavelengths Available) Fluorescence Emissions: 2 Channel Detection (575nm ±15nm; >650nm) Plus Forward Scatter Detection
Depth Rating	50 Meters; Extendable to 200 Meters in Some Configurations
Data Transfer (Communication)	Ethernet, up to 100Mbit/sec
Biofouling	Copper Tubing Throughout Fluid Flow Path
Deployment Capabilities	Moored, AUV-Mounted, Fixed Location (e.g. dockside in deployment frame below), shipboard (over-the-side), Profiling (ship or dockside), or as benchtop in Laboratory

Item	Description/Capabilities
Cabling (Power & Communication)	Power: 3 meter long 3 conductor cable allows the use of a remote sensing power supply Communications: 3 meter long Ethernet cable allows communication with the system from a remote location Longer cable lengths are available upon request
Cable Interface	A standard RJ45 ethernet connector interfaces with the communications cable The power cable is provided with bare wire for installation by the user. Other options are available on request
Remote Operation	Simple TCP/IP-Based API to control from a remote location: Complete remote operation capability: data collection, scheduling, pump operation, focusing and data transfer
Dimensions	Length: 84cm, Diameter: 32cm (at largest section)
Weight	Dry Weight: 48 kilos Wet Weight: 9 kilos
Warranty	Parts and Labor, 1 Year



Accessories	
Item	Description
Deployment Frame	43cm W x 43cm L x 1.2m H, 16 kilos
Shipping Case	51cm W x 1m L x 51cm H, 27 kilos
Lab Stand (for Bench Top Use)	TBD
Customized features for a variety of installations can be provided upon request	

