Inherent Optical Properties

WET Labs®

IOP Suite

The inherent optical properties (IOP) of water are defined by the coefficients of attenuation (c), absorption (a), and scattering (b), as well as the volume scattering function (VSF) in the backward direction, and hence the backscattering coefficient. The Inherent Optical Properties Suite provides an integrated solution to measure each of these parameters, as well as conductivity, temperature, and depth. The instruments' data are highly integrated to provide excellent spatial and temporal coherence. The package is designed for out-of-the-box use. It can be profiled autonomously or deployed in a moored configuration.

System Instruments

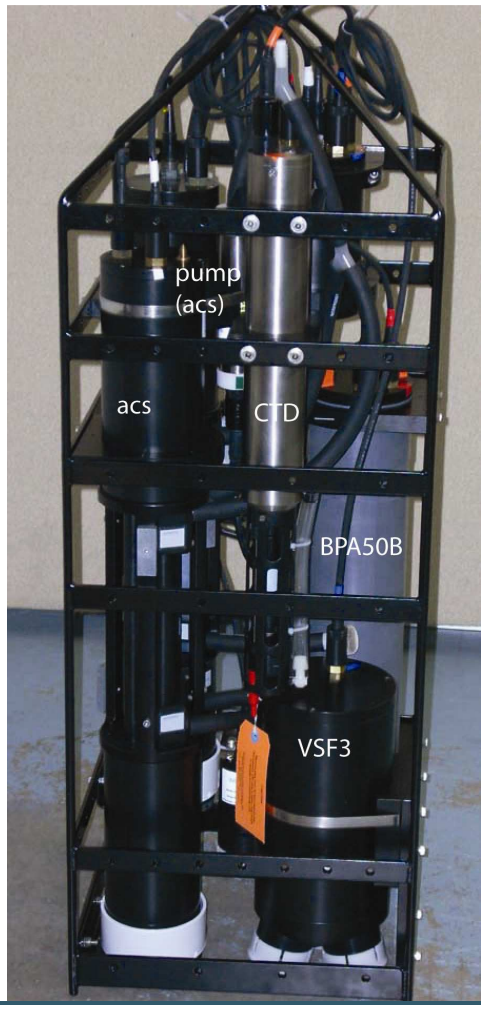
ac9 or acs—Determines spectral transmittance and absorption of water over 9 (ac9), or 80+ (acs) wavelengths.

***ECO*-VSF3—**Determines the Volume Scattering Function in the backward direction at three distinct angles: 100, 125, and 150 degrees, and the backscattering coefficient. Factory-set wavelengths: 470, 530, and 660 nm.

CTD—Determines conductivity, temperature, and depth of water (Sea-Bird SBE-37SI).

Battery Pack—Provides power to instruments.

Host software included.



Specifications subject to change without notice.