

The CRV5 transmissometer specifically designed for profiling floats where buoyancy is a primary consideration. It features low power consumption and weighs just 0.57 kg in water. For comparison, the deep C-Star transmissometer weighs 2.7 kg in water. The weight saving design makes the CRV5 a relatively delicate instrument. It is not rugged enough for normal ship-based operations.

The CRV5 is available in two wavelengths:

- Red (650 nm): Best for particle dynamics, e.g. mass concentration estimates.
- Green (530 nm): Best for estimates of in-situ visibility.



Specifications

Mechanical		Electrical	
<i>Height</i>	58.4 cm	<i>Output resolution</i>	14 bit
<i>Diameter</i>	6.91 cm	<i>RS-232 output</i>	19200 baud
<i>Weight in air</i>	1.9 kg	<i>Connector (PEEK)</i>	MCBH-6-MP
<i>Weight in water</i>	0.57 kg	<i>Power input</i>	7.5–15 VDC
<i>Internal air volume</i>	636 cc	<i>Operating current, typ., 532 and 650 nm</i>	35 mA
		<i>Operating current, max., 532 and 650 nm</i>	50 mA
		<i>Sample rate</i>	to 8 Hz

Optical		Environmental	
<i>Wavelengths</i>	532, or 650 nm	<i>Rated depth</i>	2000 m
<i>Optical pathlength</i>	25 cm	<i>Temperature range</i>	-2 – 40 deg C
<i>Acceptance angle</i>	~ 1.4 deg	<i>Temperature stability cycled over 38–3–20 ° C</i>	0.02% FS/deg C
<i>Precision, 532 and 650 nm</i>	0.002 m ⁻¹ @1 Hz	<i>Long term stability (6 hrs)</i>	0.02% FS/Hr
<i>Linearity</i>	>99% R ²		

Specifications are subject to change without notice.