

10-AU Field Fluorometer



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The 10AU Field Fluorometer is a rugged, field-portable instrument that can be set up for continuous-flow monitoring or discrete sample analyses. Measurements are extremely stable with stability measured in months or weeks as opposed to days or hours. Watertight filter paddles enable quick change of excitation and emission filters so a variety of compounds can be easily measured on-site.

Available Optical Kits

Optical kits with appropriate filters and lamps are available for a wide range of applications and can be easily installed in the field or lab. Individual filters and lamps can also be purchased for customized applications.

Available Optical Kits

- Chlorophyll *a* - Extracted and/or *In Vivo*
- Blue Green Algae - Phycocyanin (freshwater)
- Blue Green Algae - Phycoerythrin (marine)
- Rhodamine WT Dye Tracing
- Fluorescein Dye Tracing
- Ammonium
- CDOM
- Crude Oil (Long Wavelength)
- Refined Oil (Short Wavelength)
- Histamine
- Optical Brighteners for Wastewater Treatment

Contact Us for Custom Optical Kits

Highlights of the 10AU

- Exceptional Sensitivity
 - Automatic or Manual Ranging
 - Analog and Digital Output
 - Field Installable Optical Kits
 - Easy to Read LCD Display
- Now 20% Lighter!

User Configured Options

- Standard or Red PMT
- Continuous Flow Monitoring or Discrete Sample Analysis



Optional Accessories

- Internal Data Logging & Electronic Chart Recording
- Temperature Compensation for Continuous Flow Measurements
- Solid Secondary Standard

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Ordering Information

BASE INSTRUMENT W/ WATERTIGHT CASE	PART NUMBER
10AU Fluorometer with Red PMT	1100-100
10AU Fluorometer with Standard PMT	1100-101

SAMPLE CELL	PART NUMBER
25 mm One-Piece Continuous Flow System	1100-020
25 mm & 13 mm Discrete Sample Test Tube Holder Set	10-AU-030

SOFTWARE	PART NUMBER
Internal Data Logging & Electronic Chart Recording	10-AU-450
Temperature Compensation Package (On-Line Systems)	1100-500

OPTICAL KITS	PART NUMBER
<i>In Vivo</i> & Extractive Chlorophyll <i>a</i>	10-037R
Extractive Chlorophyll <i>a</i>	10-040R
<i>In Vivo</i> Chlorophyll <i>a</i>	10-096R
Blue Green Algae - Phycocyanin (freshwater)	10-305
Blue Green Algae - Phycoerythrin (marine)	10-304
Rhodamine WT Dye	10-041R
Fluorescein Dye	10-086R
Ammonium/CDOM	10-303
Crude Oil (Long Wavelength Oil)	10-302R
Refined Oil (Short Wavelength Oil)	10-301R
Optical Brighteners for Wastewater Treatment	10-302R
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OPTIONAL ACCESSORIES	PART NUMBER
Solid Secondary Standard	10-AU-904
Shipping Case	10-AU-060
12 VDC Power & Signal Cable w/ Clips	10AU-810
Universal Power & Signal Cable, 115 VAC & 230 VAC	10AU-800

Contact Us

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10AU Electrical Specifications

Light Source	Lamp (4 watts, 8000 hours lamp life)
Detector	PhotoMultiplier Tube; Standard (300-650 nm), Red (185-870 nm)
AC Power	100-130 V; 200-240 V, 50/60 Hz, 30 watts
DC Power	11-16 V; 2.5 amperes
Digital Output	100% ASCII data output via RS-232 at 4800 or 9600 bps
Analog Output	0.1, 1, 2, or 5 volts

10AU Detection Limits

Extracted Chlorophyll <i>a</i>	0.025 µg/L using EPA Method 445.0
Rhodamine WT Dye	0.01 ppb RWT in potable water
Fluorescein Dye	0.01 ppb Fluorescein in potable water

10AU Linear Range

Extracted Chlorophyll <i>a</i>	0 - 250 µg/L
Rhodamine WT Dye	0 - 250 ppb
Fluorescein Dye	0 - 250 ppb

10AU Physical Specifications

Weight	12.6 kg (28.5 lbs)
Height	24 cm (9.45 in)
Width	55 cm (21.65 in)
Depth	34 cm (13.39 in)
Operating Temperature	0-55° C, 32-131° F (ambient)