

10-AU Field Fluorometer



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!

10AU Field Fluorometer

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

Contact Us for Custom Optical Kits

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

10-AU Field Fluorometer

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

In Vivo & Extractive Chlorophyll *a* 10-037R

Extractive Chlorophyll *a* 10-040R

In Vivo Chlorophyll *a* 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 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

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 *a* 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 *a* 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)