

# 10-AU Field Fluorometer



## 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 for Wastewater Treatment

Contact Us for Custom Optical Kits

## 10AU Highlights

- 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

Reliable Instruments for an Unreliable World

# 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 |
|--------------------------------------------------|-------------|
| <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     |
| <i>Contact Us for Custom Optical Kits</i>        |             |

### 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

Toll-Free : 1.877.316.8049

Email : [sales@turnerdesigns.com](mailto:sales@turnerdesigns.com)

Address:

Phone : 408.749.0994

Web : [www.turnerdesigns.com](http://www.turnerdesigns.com)

845 West Maude Avenue

Fax : 408.749.0998

Sunnyvale, CA 94085

## 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) |