

## SPECTRO FLUOROMETER



ATL has shipped thousands of SF-3311 Series Spectrophotometers which have been recognized as the top rated life science instrument by scientists worldwide. We deliver innovative, easy-to-use, highly precise instruments with customer service that is second-to-none. Our experienced team and technical advisory board includes scientists, engineers and founding members of NanoDrop Technologies, Inc. We stand behind our products with an industry leading warranty on all SF-3311 Series instruments. Search for ATL on [analyticalgroup.net](http://analyticalgroup.net) to read hundreds of independent product.

## ►► Multiple Models, Unmatched Sensitivity and Widest Dynamic Range

ATL offers a choice of models to meet your current and future research needs. Simply select the integrated instrument that includes your desired combination of microvolume absorbance, cuvette absorbance and fluorescence. The SF-3311 Series delivers best-in-class detection limits and dynamic range saving analysis time and bench space with instruments that fit your applications.

	SF-3311 FM+	SF-3311 FM	SF-3311 +	SF-3311	SF-C	QFM
Microvolume	●	●	●	●		
Cuvette	●		●		●	
Fluorescence	●	●	○	○	○	●

## ►► Integrated UV-Vis and Fluorescence Modes

### ◆ Microvolume - Rapid 1uL UV-Vis Measurements

ATL Spectrophotometers quantify nucleic acids and protein using only 0.5 – 1.0 µL of sample. Just pipette and measure - no dilutions necessary. Instant on-screen results include concentration, a full spectrum output, purity ratios and contamination alerts. ATL Technology ensures instruments are calibrated for life with no drift or service downtime. Bridge eliminates broken samples columns and ensures exceptional results, even for 1 µL protein samples.

### ◆ Cuvette - Improved Detection Limits and Functionality

Use standard quartz or disposable cuvettes for up to 10 mm pathlength absorbance measurements (190-840 nm). Cuvette applications include nucleic acids, proteins, colorimetric assays, and custom standard curves. Systems include a cuvette block heater for Kinetics studies from 37-45°C.

### ◆ Fluorometer – Sensitive, Specific Quantitation

The lower detection limit of DNA and other biomolecules may be improved 1000x when using fluorescent techniques. Specialized assay chemistries enable highly sensitive and molecule specific quantification, e.g. measuring only DNA in samples containing RNA and other contaminants. ATL fluorometers can be used with most commonly available fluorescence kits including ATL DNA Fluorescence Assays.

Fluorometer Mode (SF-3311 FM, SF-3311 FM+, QFM, FM Module)	
LED Sources	UV (375 nm), Blue (470 nm), Green (525 nm), Red (635 nm)
Excitation Filters	UV (361-389 nm), Blue (442-497 nm), Green (490-558 nm), Red (613-662 nm)
Emission Filters	435-485 nm, 514-567 nm, 565-650 nm, 665-740 nm
Detectors	Photodiode, detection range 300-1000 nm
Tube Type	0.5 mL thin-wall PCR tubes

Onboard Controller	(No PC required)
Operating System	Custom Android OS
CPU	1280 X 800 high definition color display
Touch Screen	Projective capacitive
Gesture Recognition	Multipoint touch, swipe, pinch
Glove Compatibility	All common lab gloves
Internal Storage	32 GB flash memory
Audio	Built-in speaker
Connectivity	Wi-Fi, Ethernet, 3 USB ports
Accessories	Printer; barcode reader, keyboard, mouse
<b>General</b>	
Weight	2 kg
Footprint	20 cm X 33 cm
Operating Voltage	12 VDC

<b>Spectrophotometer Microvolume Mode (SF-3311, SF-3311+, SF-3311 FM, SF-3311 FM+)</b>	
Minimum Sample Size	0.5 $\mu$ L
Pathlength	0.5 mm (auto ranging to 0.020 mm)
Light Source	Pulsed Xenon flash lamp
Detector Type	2048 element CCD
Wavelength Range	190 - 840 nm
Wavelength Accuracy	0.5 nm
Absorbance Precision	0.002 AU (0.5 mm) or 1%, whichever is greater
Absorbance Accuracy	1.5% at 0.75 AU at 260 nm
Spectral Resolution	1.50 FWHM @253.65 nm
Absorbance Range	0.015 – 750A (1 cm)
Detection Limit	0.04 mg/mL BSA; 0.75 ng/ $\mu$ L DNA
Maximum Concentration	1125 mg/mL BSA; 37500 ng/ $\mu$ L DNA
Measurement Time	2 seconds
AutoRun Function	Yes
Power Consumption	10 W (max 30 W)
Contaminant Detection	Sample Guidance
<b>Spectrophotometer Cuvette Mode (SF-3311+, SF-3311 FM+, SF-C)</b>	
Beam height	8.5 mm
Heating	37 - 45°C +/- 0.5°C
Pathlength	10, 5, 2, 1, 0.5, 0.2, 0.125 mm
Detection Limit	0.002 mg/mL BSA (1cm) 0.04 ng/ $\mu$ L DNA (1cm)
Maximum Concentration	75.0 ng/ $\mu$ L DNA (1cm)

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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