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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

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Киров (8332)68-02-04
Краснодар (861)203-40-90
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Магнитогорск (3519)55-03-13
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Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

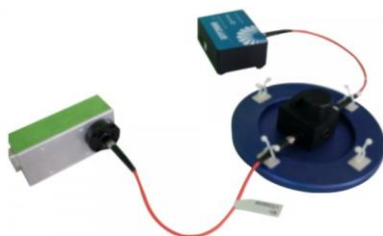
Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

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Система измерения поглощения и флуоресценции с низким уровнем шума Low noise absorbance & fluorescence measuring system



Optosky ATX2000 is newly designed high-performance, low-noise absorbance & fluorescence measuring system. It consists of long lifetime pulsed Xeron lamp, low noise optic fiber spectrometer, absorbance & fluorescence multi-functional measuring sample cell, optic fiber, collimating system etc. Low noise optic fiber spectrometer employs optimized designs in phonology, electronics, which greatly reduces sensor noise to obtain optimized SNR(about 5 times higher than other competitors). Measuring reliability has been greatly improved, so measuring results do not change with ambient temperature. ATX2000 simple configuration can be used to research and measure various spectrum such as reflectance, transmission, absorption, fluorescence etc. ATX2000 employs pulsed Xenon lamp lifetime $> 10^9$ (wavelength range: 190-1100nm), usually it's not required to replace light source > 5 years.

ATX2000 requires only 5V DC power supply and PC to start to work, easy to operate.

Multi-function measurement such as absorbance & fluorescence measurement

Wavelength range: 190-1100nm

Absorbance reach up to 3.2

Require no preheating, directly operate with electricity

replaceable fluorescence filter

Ultra-low CCD signal process PCB

Spectral resolution: 1.6 nm

Optical path: crossed C-T

Measuring time: 2ms-130s (software setup)

Spectrometer controls light source, synchronized measurement

Power supply: DC 5V $\pm$ 10% @ $< 2.3A$

Light input connector: SMA905 or free space

Output data interface: USB2.0 (High speed) or UART

20-pins dual-row programmable extension connector

ATX2000 Low noise absorbance & fluorescence measuring plan	
Spectral range	190-1100 nm
Resolution	1.6 nm
Absorbance measuring range	0-3.2
Entrance connector	SMA905 connector
Optic fiber length	>1.5m
Optical aperture	Ø5mm
Optical path	10mm
Operating temp	-10-45 oC
Operating humidity	< 90%RH
Spectrometer	
Type	Low noise Linear sensor
spectral range	190-1100 nm
Effective pixels	2048
Pixel size	200µm×14µm
Optical resolution	1.6 nm
SNR	>2300:1
Dynamic range	8000 : 1
Optical path	f/4 crossed C-T
Confocal length	40 mm for incidence / 60 mm for output
Electrical parameters	
Integration time	1 ms - 130 second, software setup
Output data interface	USB 2.0
ADC bit depth	16 bit
Power supply	DC 5V±10%
Operating current	<2.3A
Storage temp	-20°C to +70°C
Operating temp	-10°C to +45°C
Pulsed Xenon lamp	
lifetime	≥109
Broad spectrum	185nm-2000nm
Preheating time	Required no preheating, start immediately
Power	5W

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