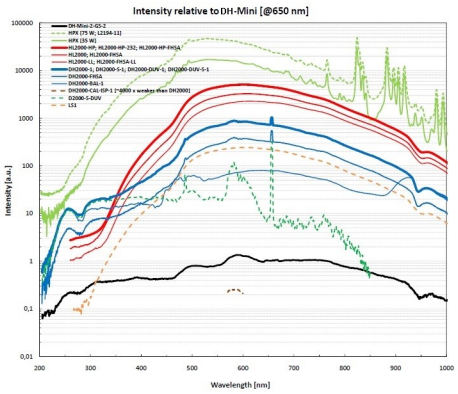
FIBER OPTIC LIGHT SOURCES (PORTFOLIO)
LIGHT SOURCES



Ocean Insight modular sources are available for illumination, excitation and calibration, with options for UV, Visible and NIR wavelengths. They have been developed with short-arc-lamps to optimize coupling in SMA 905 fiber optics.

Depending on your needs, Ocean Insight provides also numbers of fiber optic miniature spectrometers including optical fibers, cuvette holders, probes and other sampling optics.

Below each light source model with keys features, specifications and measurement type to help you making the right choice.

Features

MODELS	FEATURES
PX-2	Pulsed xenon source with a lower duty cycle and NIR applications Ideal for measurements where high intensity uv light can damage the sample
HPX-2000	Continuous-wave high power pulsed xenon – Fluorescence measurement
DH-2000-BAL	Combination of deuterium / tungsten halogen bulbs to produce a powerful and stable output. The entire UV-Visible-NIR range can be explored
DH-IDIL-V2	Compact continuous UV-VIS light source with low power consuming
HL-2000	Long life tungsten halogen source optimized for VIS-NIR range
HL-2000-HP	High power tungsten halogen source optimized for VIS-NIR range
ECO-VIS	Compact Krypton VIS-NIR light source with integrated cuvette holder for easy measurements
LSM-LEDs	Efficient coupling of LED light into optical fibers, ensuring high signal output Programmable driver-controller enables monitoring of LED power output, temperature...
HL-3P & DH-3P	Radiometric calibration light sources
AR-2, KR-2, HG-2, XE-2, NE-2	Argon, Krypton, Mercury Argon, Xenon and Neon wavelength calibration light sources

Specifications

	PX-2	HPX-2000	DH-IDIL	DH-2000	HL-2000	ECO-VIS	LSM-LEDs	HL-3P	DH-3P	AR-2	KR-2	HG-2	XE-2	NE-2
Bulb	Xenon		Deuterium (D), Tungsten Halogen (W)		Tungsten Halogen	Krypton Halogen	Led	Tungsten	Deuterium (D) Tungsten (W)	Argon	Krypton	Mercury Argon	Xenon	Neon
Output mode	Pulsed	Continuous	Continuous		Continuous		Pulsed or Continuous	Continuous		Continuous				
Spectral range	220-750 nm	185-2000 nm	215-2500 nm		350-2500 nm	400-2500 nm	From 240 nm	380-1050 nm	210-1100 nm	700-1700 nm	427-893 nm	253-1700 nm	916-1984 nm	540-754 nm
Nominal bulb power	9.9W	75W	3.8W (D) 1.2W (W)	25W (D) 20W (W)	4.75W (LL) 20W (HP)	1.3W	NA	5W	25W (D) 20W (W)	NA				
Typical output power	1.52mW	6.13mW	0.2µW (D) 7µW (W)	194µW (D) 615µW (W)	4.7mW (LL) 8.8mW (HP)	3.7mW	From 2 to 10mW	NA	NA	NA				
Optical shutter	No	Yes	Yes		Option	No	No	Yes	Yes	No				
Life time	10^9 pulses	2000 hours	1500 hours	1000 hours	1500 hours	2000 hours	Thousands hours	~900hours		3500 hours				
Size	14 x 10.5 x 4 mm	14.5 x 16.5 x 26 mm	180 x 103 x 53 mm	150 x 135 x 319 mm	62 x 60 x 150 mm	95 x 50 x 50 mm	3 x 6.4 x 3.3 mm	62 x 60 x 150 mm	150 x 135 x 319 cm	16.7 x 10.6 x 3.4 cm				
Weight	400g	6kg	570g	3.8kg	0.5kg	0.3kg	120g	0.5kg	0.5kg	180g				

Applications

	PX-2	HPX-2000	DH-IDIL	DH-2000	HL-2000	ECO-VIS	LSM-LEDs	HL-3P	DH-3P	AR-2	KR-2	HGR-2	XE-2	XE-2
Absorbance	✓		✓	✓	✓	✓								
Transmission	✓		✓	✓	✓	✓								
Reflectance	✓		✓	✓	✓									
Fluorescence	✓	✓	✓	✓	✓		✓							
Radiometry								✓	✓					
Wavelength										✓	✓	✓	✓	✓

More technical information on these spectrometers and light sources at www.oceaninsight.com - Contact us (RFQ, live demonstration, material testing) at info@idil.fr