

ILD-XE-QH
Dual Xenon & Quartz Halogen Source
250-2500nm

ILD-XE-QH Dual Xenon & Quartz Halogen Source

The ILD-XE-QH is a general purpose broad-band illuminator spanning the spectral range 250-2500nm.

Housing a 75W short-arc xenon lamp and a 100W quartz halogen lamp with automated selection between the two, the ILD-XE-QH can be mounted to the entrance slit of any Bentham monochromator or spectrometer.

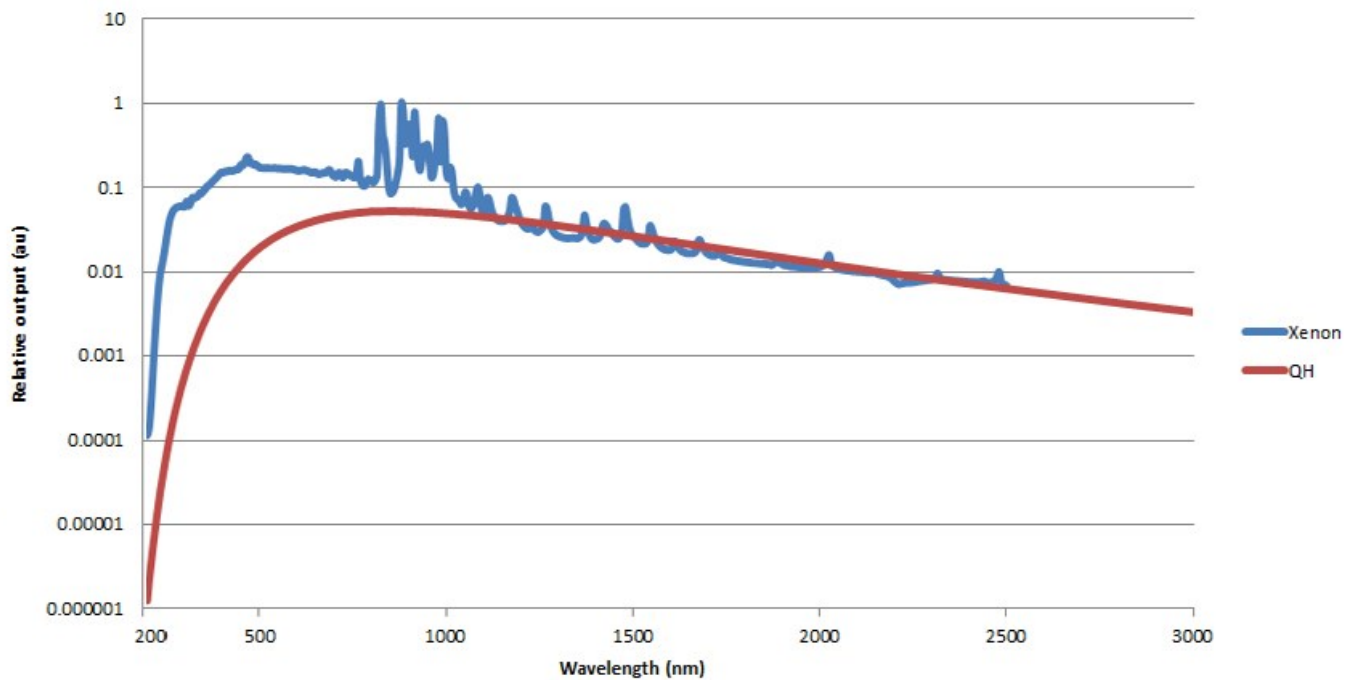
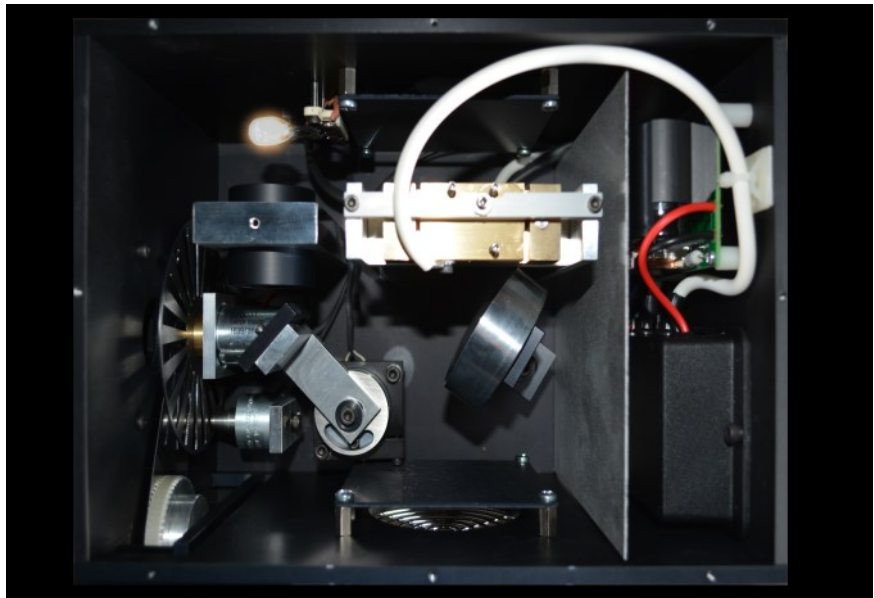
Efficient coupling is ensured by using the QH condenser lens and Xe lamp off-axis elliptical reflector to match the monochromator f/#.

Product Features

- Includes xenon and quartz halogen light sources
- Automated source selection
- Mounts to entrance slit of any Bentham monochromator/spectrometer

Product Benefits

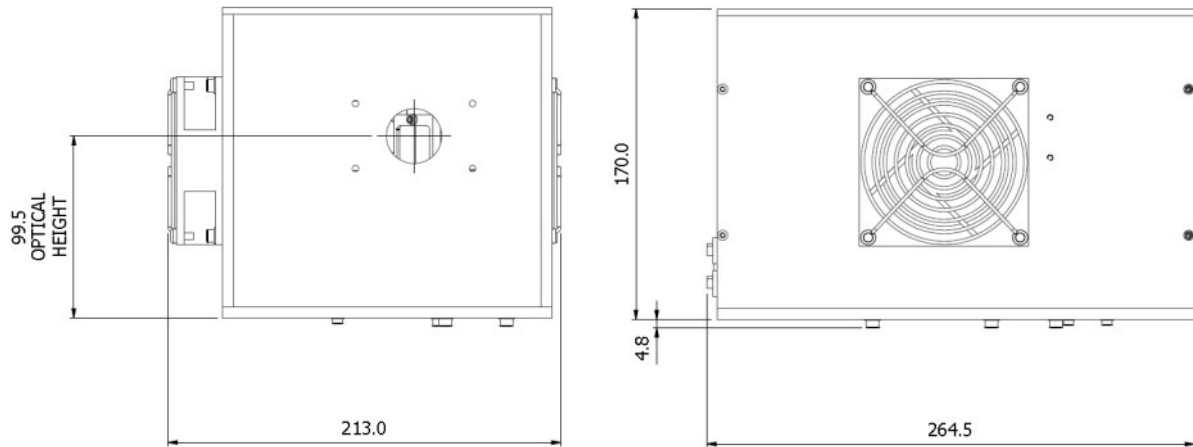
- High radiance 250-2500nm
- Long lamp life time
- Polyvalent
- Wide spectral range of use



Specification

Xenon Lamp	
Lamp rating	80W
Operating current	5.4A
Rated Voltage	15V
Average lifetime	2000h
Coupling	Off-axis elliptical reflector 60mm diameter
Spectral range	250-2500 nm
Recommended power supply	Bentham 605 (Part no.PSU_605)
Quartz Halogen Lamp	
Lamp rating	100W
Operating current	8.500 A
Rated voltage	12V
Lamp lifetime	2000h
Coupling	Fused silica, bi-convex condenser lens 25mm diameter
Base	GY6.35
Nominal CCT	3300K
Spectral range	250-2500nm
Recommended power supply	Bentham 605 (Part no.PSU_605)
Source Selection	
Mechanical	Solenoid-based swing away mirror
Energisation voltage	12V, derived from Bentham monochromator
Source selected energised	Xenon
Source selected de-energised	Quartz halogen
General	
Monochromator interface	Interface via four clearance screw (M3) holes
Dimensions	229Wx 259Lx 220H mm
Weight	3 kg
Source cooling	One 12V fan, driven by Bentham 605 power supply used to run QH lamp

Dimensions (mm)



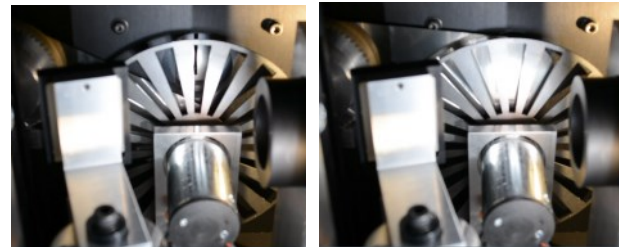
Options

Optical Chopper: Integrated 20-slot optical chopper at exit of source to modulate light level at frequencies from 50-2000 Hz. Required in applications in infrared and in measurements performed in presence of secondary/ ambient illumination.

Arrestable Optical Chopper: Arrest feature added to above comprising electromagnet to stop optical chopper at open location to allow CW measurements.

HF- LF Chopper: Stepping motor driven chopper included alongside (arrestable) optical chopper to perform effective low frequency measurements.

Quick Change Adaptor: Dove-tail interface plate to attach to monochromator entrance slit for ease of changing light sources.



ILD-HF-LF-CHOP

Ordering Information

ILD-XE-QH	Dual source with 100W QH and 75W Xenon lamps. No optical chopper.
ILD-XE-QH-CH	Dual source with 100W QH and 75W Xenon lamps. Integrated optical chopper.
ILD-XE-QH-CH-QC	Dual source with 100W QH and 75W Xenon lamps. Integrated optical chopper. QC mount
ILD-XE-QH-CH-ARREST	Dual source with 100W QH and 75W Xenon lamps. Integrated arrestable optical chopper.
ILD-HF-LF-CHOP	Dual source with 100W QH and 75W Xenon lamps. Integrated HF and LF optical choppers.
19583	Spare 75 W Xenon lamp
09101	Spare 100 W QH lamp
PSU_605	Constant current lamp power supply