

ILD-D2-QH
Dual Deuterium & Quartz Halogen Source
200-2500nm

ILD-D2-QH Deuterium & Quartz Halogen Source

The ILD-D2-QH is a general purpose broad-band illuminator spanning the spectral range 200-2500nm.

Housing a 30W deuterium lamp and a 100W quartz halogen lamp with automated selection between the two, the ILD-D2-QH can be mounted to the entrance slit of any Bentham monochromator or spectrometer.

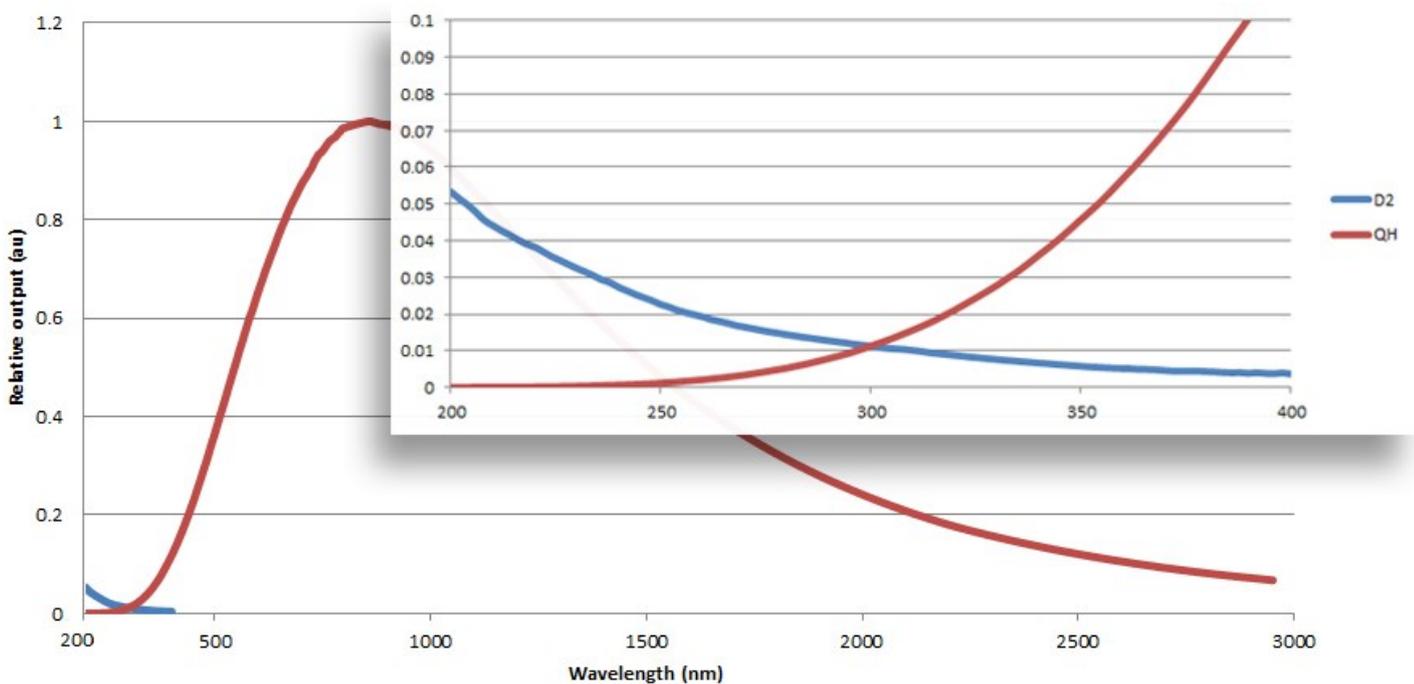
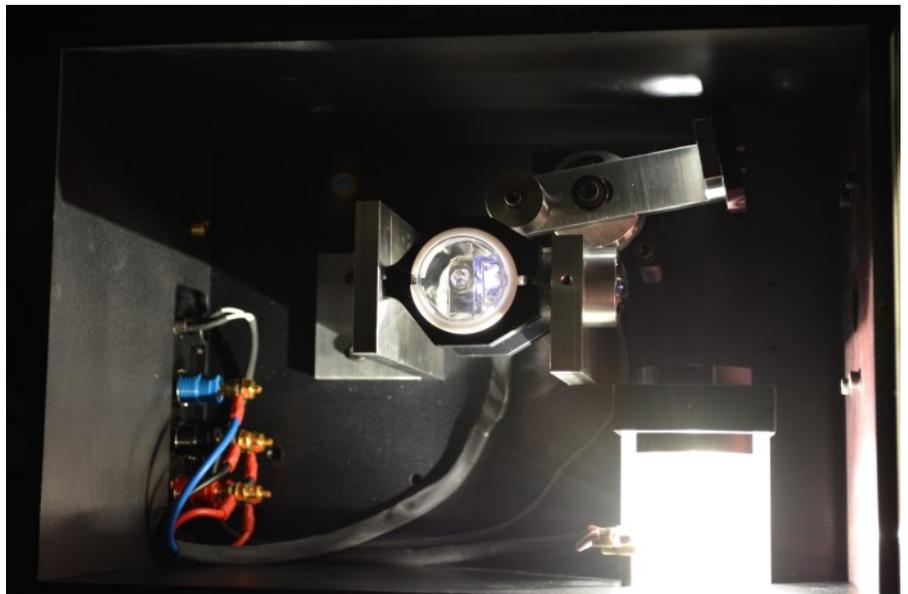
Efficient coupling is ensured by using condenser lenses for both sources that match the monochromator f/#.

Product Features

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

Product Benefits

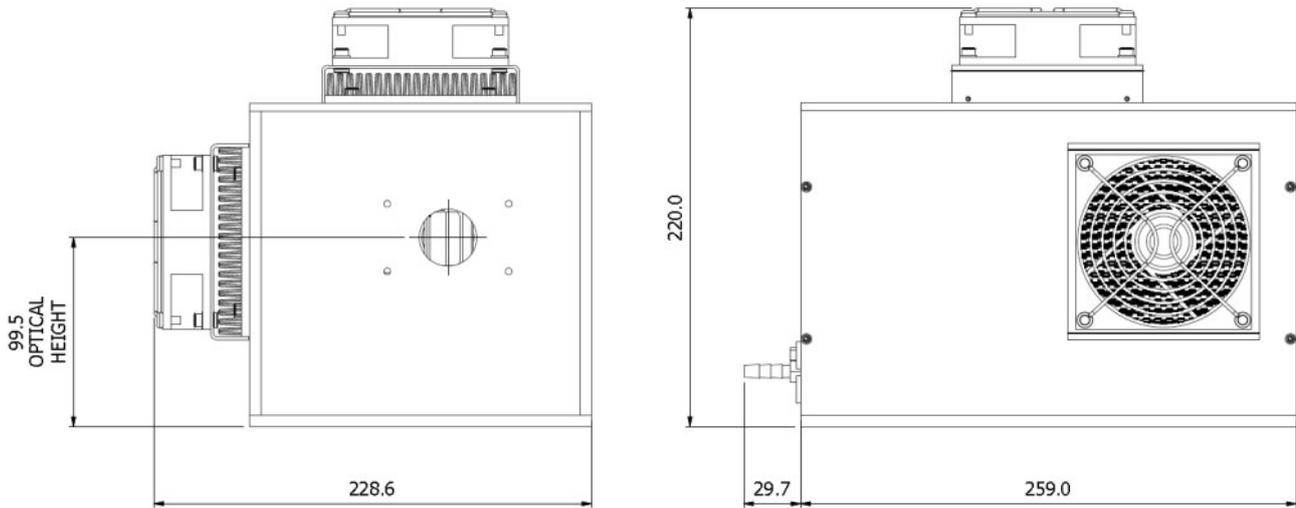
- High radiance 200-2500nm
- Long lamp life time
- Polyvalent
- Wide spectral range of use
- Suitable input to single monochromators



Specification

Deuterium Lamp	
Nominal lamp rating	30W
Operating current	300mA DC
Operating voltage	100V
Lamp lifetime	2000h
Envelope material	Synthetic quartz
Coupling	Fused silica, plano-convex condenser lens 25mm diameter
Spectral range	200-400nm
Recommended power supply	Bentham 706 (Part PSU_706)
Quartz Halogen Lamp	
Lamp rating	100W
Operating current	8.500 A
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 610 (Part PSU_610)
Source Selection	
Mechanical	Solenoid-based swing away mirror
Energisation voltage	12V, derived from Bentham monochromator
Source selected energised	Deuterium
Source selected de-energised	Quartz halogen
General	
Monochromator interface	Interface via four clearance screw (M3) holes
Dimensions (mm)	229Wx 259Lx 220H
Weight	3 kg
Source cooling	2x 12V fans, driven from single PSU_610

Dimensions (mm)



Options

Optical Chopper: Integrated 5-slot optical chopper at exit of source to modulate light level at frequencies from 10-500 Hz. Required in applications in infrared and in measurements performed in presence of secondary/ambient illumination.

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

Ordering Information

ILD-D2-QH	Dual source with 30W deuterium and 100W QH, no optical chopper
ILD-D2-QH-CH-QC	Dual source with 30W deuterium and 100W QH, with integrated optical chopper, QC mount
27441	Spare 30 W deuterium lamp
09101	Spare 100 W QH lamp
PSU_706	Deuterium lamp power supply
PSU_610	Constant current lamp power supply