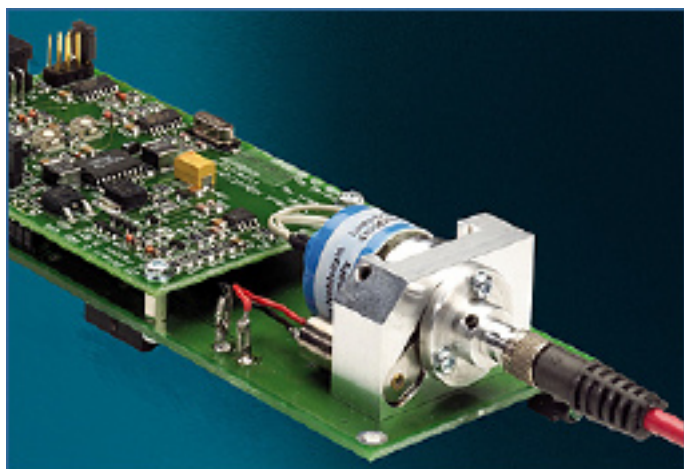


## FiberLight Miniature UV/VIS Light Source from Heraeus Noblelight



FiberLight is a very compact light source for the ultraviolet, visible and near infrared spectral range (from 200 nm to 1100 nm). The heart of FiberLight is an electrodeless RF induced deuterium lamp, newly developed by Heraeus Noblelight.

The miniature lamp opens UV spectroscopy to portable, battery operated instruments. Application examples for on-site analyses and diagnosis are:

- organic chemistry
- pharmaceuticals
- petrochemicals
- agriculture
- environment and life sciences

Another area of applications is in small instruments for on-line process analysis.

FiberLight is a complete UV/Vis light source. It consists of the lamp unit, with deuterium and tungsten lamps in shine-through array, shutter, optical coupling with SMA fiber optic connection and power supplies to control both lamps.

All elements are mounted on a circuit board and are externally controlled through TTL signals. FiberLight can be operated with a 12 Vdc/0.6 A power supply and is especially suitable for fiber-coupled, portable spectrometers, which are independent of mains supply.

### TECHNICAL DATA AND SPECIFICATIONS

#### Technical Data FiberLight Unit

Spectral range:

Power consumption:

Power supply:

Operation temperature:

Relative humidity:

Dimensions:

Shutter:

Functions:

Light outlet:

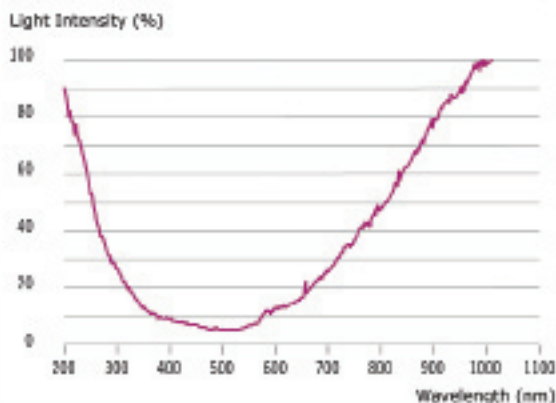
Fibre optic:

200 - 1100 nm or 185 - 1100 nm  
approx. 6 W (both lamps in operation)  
12 Vdc regulated / 0,6 A  
5 - 35° C

max. 90%, non-condensing  
157 x 55 x 37 mm (LxHxW)  
for zero adjustment

deuterium and tungsten lamps can be separately externally (TTL) controled  
SMA 905 or parallel beam  
diameter 200, 400 or 600 µm

FiberLight UV/VIS Spectrum



FiberLight Mercury Line Spectrum

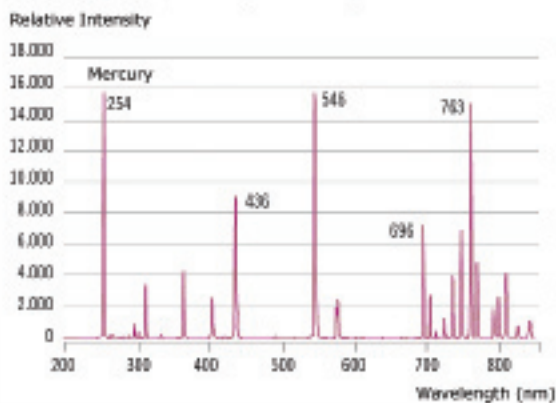
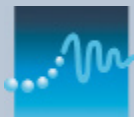


Image above:  
FiberLight UV/VIS spectrum and mercury line spectrum

Image right:  
FiberLight lamp module





## FiberLight Miniature UV/VIS Light Source from Heraeus Noblelight

### TECHNICAL DATA AND SPECIFICATIONS (continued)

Numerical aperture:	deuterium lamp 0.245, tungsten lamp 0.057
Cooling:	not required
<b>Technical Data Lamp Module</b>	
Type:	electrodeless RF induced deuterium lamp with coupled in tungsten lamp
Spectral range:	200 - 1100 nm or 185 - 1100 nm
Window material:	quartz or synthetic quartz
Light power (intensity):	$> 5 \times 10^{-8}$ W/nm sr at 240 nm
Stability:	$< 1 \times 10^{-3}$ AU
Drift:	$< 0,25$ %/h
Excitation frequency:	250 kHz
Ignition voltage:	approx. 1kV
Power consumption:	approx. 3 W
Service life:	$>1000$ h at 240 nm (50% output drop)

### ORDER INFORMATION

Description	Part No.
<b>FiberLight Modules</b>	
DTM 6/10 - aperture size: 1.0 mm, quartz glass, focused beam, for 400 - 600 $\mu$ m optical fiber, 200 - 1100 nm	80007444
DTM 6/50 - aperture size: 0.5 mm, quartz glass, focused beam, for 200 - 600 $\mu$ m optical fiber, 200 - 1100 nm	45006281
DTM 6/10S - aperture size: 1.0 mm, syn. quartz glass, focused beam, for 400 - 600 $\mu$ m optical fiber, 185 - 1100 nm	80000755
DTM 6/50S - aperture size: 0.5 mm, syn. quartz glass, focused beam, for 200 - 600 $\mu$ m optical fiber, 185 - 1100 nm	80001017
DTM 6/11 - aperture size: 1.0 mm, quartz glass, parallel beam	80003030
AMM 6/10 - Hg/Ar - aperture size: 1.0 mm, nat. quartz	80006259
AMM 6/10 S - Hg/Ar - aperture size: 1.0 mm, synth. quartz	80008507
<b>Replacement Lamps</b>	
Lamp module for DTM 6/10	45006253
Lamp module for DTM 6/50	45006266
Lamp module for DTM 6/10S	80000756
Lamp module for DTM 6/50S	80001018
AML 6/10 lamp module for AMM 6/10, nat. quartz	80006268
AML 6/10 S lamp module for AMM 6/10 S, synth. quartz	80008165
<b>Optical Fibers incl. SMA 905-connector</b>	
200 $\mu$ m, 1 m	45006262
400 $\mu$ m, 1 m	45007185
400 $\mu$ m, 2 m	45007186
400 $\mu$ m, 6 m	45006222
600 $\mu$ m, 1 m	45007505
600 $\mu$ m, 2 m	45007507

Current prices at: [www.msscientific.de/deuterium\\_lamps\\_pdfpricelist.pdf](http://www.msscientific.de/deuterium_lamps_pdfpricelist.pdf).