

# Monochromatic light sources

## Monochromatic light source packages

### 75/150 W Xenon light source with 150 mm focal length monochromator

- Highest radiance
  - Smallest spot size
  - Deep UV version available (150 W lamp)
  - F/1.3 UV condenser
  - Rear reflector
  - LSH102 lamp housing, LSN150 power supply
  - MSH-150, 150 mm focal length monochromator 180° optical path
  - Two variable slit assemblies
  - UV focusing lens
  - Computer controlled filter wheel with appropriate longpass filters
  - Completely aligned on common baseplate
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- Supports wide range of accessories
  - Max. range (lamp dependent) 230 - 1200 nm

#### Ordering information

<b>MLS-75-150</b>	75 W Xe light source with 150 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Longpass filter at 305 nm, 475 nm, 715 nm
<b>MLS-150-150</b>	150 W Xe light source with 150 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Longpass filter at 305 nm, 475 nm, 715 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB510</b>	75 W Xe
<b>LSB511</b>	75 W Xe OF
<b>LSB520</b>	150 W Xe
<b>LSB523</b>	150 W Xe OF
<b>LSB522</b>	150 W Xe deep UV Grating 1200 l/mm, 300 blaze is replaced by 1200 l/mm, 250 blaze

### 300 W Xenon light source with 150 mm focal length monochromator



300 W Xe light source with 150 mm focal length monochromator and accessories

- High radiance
- Small spot size
- F/1.3 UV condenser
- Rear reflector
- LSH302 lamp housing, LSN254 power supply
- MSH-150, 150 mm focal length monochromator 180° optical path
- Two variable slit assemblies
- UV focusing lens
- Computer-controlled filter wheel with appropriate longpass filters
- Completely aligned on common baseplate
- Supports wide range of accessories
- Max. range 280 - 1200 nm

#### Ordering information

<b>MLS-300-150</b>	300 W Xe light source with 150 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Longpass filter at 305 nm, 475 nm, 715 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB530</b>	300 W Xe OF
<b>LSB531</b>	300 W Xe

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#### 300 W Xe light source with 300 mm focal length monochromator



1000 W Xe light source with 300 mm focal length monochromator

- High radiance
- Small spot size
- F/1.3 UV condenser
- Rear reflector
- LSH302 lamp housing, LSN254 power supply
- MSH-300, 300 mm focal length monochromator
- 180° optical path
- Two variable slit assemblies
- UV focusing lens
- Computer controlled filter wheel with appropriate longpass filters
- Completely aligned on common baseplate
- Supports wide range of accessories
- Max. range 280 - 2400 nm

#### Ordering information

<b>MLS-300-300</b>	300 W Xe light source with 300 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 320 nm, 550 nm, 950 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB530</b>	300 W Xe OF
<b>LSB531</b>	300 W Xe

#### 450/1000 W Xe light source with 300 mm focal length monochromator

- High radiance
- Small spot size
- deep UV lamp available (450 W lamp)
- F/1.3 UV condenser
- Rear reflector
- LSH601 lamp housing, LSN 555 power supply
- MSH-300, 300 mm focal length monochromator
- 180° optical path
- Two variable slit assemblies
- UV focusing lens
- Computer controlled filter wheel with appropriate longpass filters
- Completely aligned on common baseplate
- Supports wide range of accessories
- Max. range (lamp dependent) 230 - 2400 nm

#### Ordering information

<b>MLS-450-300</b>	450 W Xe light source with 300 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 320 nm, 550 nm, 950 nm, 1650 nm
<b>MLS-1000-300</b>	1000 W Xe light source with 300 mm monochromator Two variable slit assemblies 10 µm - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 320 nm, 550 nm, 950 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB540</b>	450 W Xe
<b>LSB541</b>	450 W Xe deep UV Grating 1200 l/mm, 300 blaze is replaced by 1200 l/mm, 250 blaze
<b>LSB542</b>	450 W Xe OF
<b>LSB550</b>	1000 W Xe
<b>LSB551</b>	1000 W Xe OF

# Monochromatic light sources

## Monochromatic light source packages

### Halogen lamp features

- Excellent stability
- Continuous spectrum from 300 - 2500 nm
- Inexpensive to operate
- Easy handling

### Monochromator features

- Fully automated
- USB 2.0 interface
- Wavelength range 350 - 2400 nm
- Two variable slit assemblies, 10  $\mu$ m - 10 mm
- Control software
- Software development kit incl. Lab View VI's



### 50/100/150 W halogen light source with 150 mm focal length monochromator

- Good compromise of output intensity and filament size
- F/1.3 UV condenser
- LSH102 housing, LSN111 power supply
- MSH-150, 150 mm focal length monochromator 180° optical path
- Two variable slit assemblies
- Focusing lens
- Computer controlled filter wheel with appropriate longpass filters
- Completely aligned on common baseplate
- Supports wide range of accessories
- Max. range 350 - 2400 nm

### Ordering information

<b>MLS-H150</b>	50/100/150 W halogen light source with 150 mm monochromator Two variable slit assemblies 10 $\mu$ m - 10 mm Grating 600 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 475 nm, 715 nm, 1050 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB114/5</b>	50 W halogen lamp
<b>LSB116/5</b>	100 W halogen lamp, long life
<b>LSB117/5</b>	100 W halogen lamp
<b>LSB121/5</b>	150 W halogen lamp

### 250/300/400 W halogen light source with 300 mm focal length monochromator

- High level VIS-NIR output
- F/1.3 UV condenser
- LSH302 housing, LSN6016 power supply
- MSH-300, 300 mm focal length monochromator 180° optical path
- Two variable slit assemblies
- Focusing lens
- Computer controlled filter wheel with appropriate longpass filters
- Completely aligned on common baseplate
- Supports wide range of accessories
- Max. range 350 - 2400 nm

### Ordering information

<b>MLS-H300</b>	250/300/400 W halogen light source with 300 mm monochromator Two variable slit assemblies 10 $\mu$ m - 10 mm Grating 600 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 475 nm, 715 nm, 1050 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB123/5</b>	250 W halogen lamp
<b>LSB124/2</b>	300 W halogen lamp
<b>LSB125/2</b>	400 W halogen lamp



Sample configuration with accessories

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### Broadband tunable monochromatic light source UV-VIS-NIR

For those applications where the wavelength band of a single light source is not sufficient, double source solutions are available. In combination with a second entrance port and motorized selection mirror these provide monochromatic radiation from UV to IR without manual intervention.

- Broadband UV-VIS-NIR output
- Excellent stability
- Spectrum from 200 - 2400 nm
- Inexpensive to operate
- Fully automated
- USB 2.0 interface
- Control software
- Software development kit incl. LabView VI's



Sample configuration with accessories

### Deuterium/Halogen light source with 300 mm focal length monochromator

#### Ordering information

<b>DMLS-150-300</b>	30 W Deuterium light source, 50/100/150 W halogen light source with 300 mm monochromator, Three variable slit assemblies 10 $\mu$ m - 10 mm Grating 1200 l/mm 250 blaze Grating 1200 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 320 nm, 550 nm, 950 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB211</b>	30 W deuterium lamp, arc diam. 1 mm
<b>LSB212</b>	30 W deuterium lamp, arc diam. 0,5 mm
<b>LSB114/5</b>	50 W halogen lamp
<b>LSB116/5</b>	100 W halogen lamp, long life
<b>LSB117/5</b>	100 W halogen lamp

### Xenon/Halogen light source with 300 mm focal length monochromator

#### Ordering Information

<b>DMLS-300-300</b>	300 W Xe light source, 250/300/400 W halogen light source with 300 mm monochromator, Three variable slit assemblies 10 $\mu$ m - 10 mm Grating 1200 l/mm 300 blaze Grating 1200 l/mm 500 blaze Grating 600 l/mm 1600 blaze Longpass filter at 320 nm, 550 nm, 950 nm, 1650 nm
No lamp included, please select from below:	
<b>Lamps</b>	
<b>LSB530</b>	300 W Xe OF
<b>LSB531</b>	300 W Xe
<b>LSB123/5</b>	250 W halogen lamp
<b>LSB124/2</b>	300 W halogen lamp
<b>LSB125/2</b>	400 W halogen lamp

#### A word on safety

Deuterium lamps emit dangerous levels of UV radiation. Always wear UV protective eyewear and gloves. We recommend using an electronic shutter to block the beam when the source is not in use. For DUV work, vent the ozone to the outside. In a well ventilated laboratory, none of our lamps produce medically concerning concentrations of ozone.