

# OEM Imaging Scanning MONOCHROMATOR

**An Imaging Scanning Monochromator with exceptional stray light rejection.**

Spanning the ultraviolet to near infra-red, the Model H1034B is just the kind of reliable and reproducible component desired by analytical equipment manufacturers:

<b>HPLC</b>	<b>Chemical Analysis</b>
<b>End-point Determination</b>	<b>Environmental</b>
<b>Life Sciences</b>	<b>Agricultural/Food</b>
<b>Color Measurement</b>	<b>...and more</b>

Model H1034B



Drop the H1034B into your product and take data immediately. Each unit is pre-aligned at the factory and tested in accordance with your requirements, ensuring consistently high performance.

Holographic grating, pioneered by JY, deliver performance not possible with other small designs. Ion-Etched gratings combine the advantages of holographic gratings with a high efficiency. Aberration-corrected concave gratings permit a one-piece optical design with excellent imaging properties.

An entire spectrum can be scanned in less than two seconds.

## Check out these features –

- **185 to 1000 nm**
- **F/#2.8 – High throughput**
- **Resolution less than 1 nm**
- **Factory tested and aligned**
- **Over 1 million scans!**
- **Multi-input imaging**

## Grating choices for Model H1034B

Blaze Wavelength	Wavelength Range (nm)	Grating Efficiency
250 nm	185 – 1000	>60% at 250 nm
350 nm	185 – 1000	>60% at 350 nm
500 nm	300 – 1000	>60% at 500 nm



<http://www.jyinc.com>

Be sure to ask for the **OEM Group**

### Jobin Yvon Inc. – OEM Group

3880 Park Avenue  
Edison, NJ 08820  
Tel. (732)494-8660  
Fax: (732)548-9725  
Email: [oemsales@jyhoriba.com](mailto:oemsales@jyhoriba.com)

ISO 9001  
Certified

### Jobin Yvon SA

16-18 rue du Canal  
91165 Longjumeau Cédex  
Tel. +33 1 64 54 13 00  
Fax: +33 1 69 09 93 19  
Email: [isajyoem@aol.com](mailto:isajyoem@aol.com)

ISO 9003  
Certified

# Model H1034B Imaging Scanning Monochromator

## Specifications

### OPTICAL PERFORMANCE

- **Wavelength range** 185 to 1000 nm
- **Resolution** 1 nm FWHM with 100  $\mu\text{m}$  x 4 mm slits
- **F/#** 2.8
- **Grating clear aperture** 34 mm x 34 mm
- **Normalized dispersion**  
7.80 nm/mm at 200 nm  
7.92 nm/mm at 500 nm  
7.72 nm/mm at 800 nm
- **Wavelength accuracy**  $\pm 1$  nm with linear fit

### GRATING LAYOUT

- **Input arm length  $L_A$**  101.5 mm
- **Output arm length  $L_B$**  100.8 mm
- **Deviation angle  $D_v$**  34.7°
- **Groove density** 1200 grooves/mm

### OPTIONS (to be specified at the time of order)

The grating blaze (peak efficiency) must be specified. An input and an output slit should also be specified.

H1034-B-□□□-OS

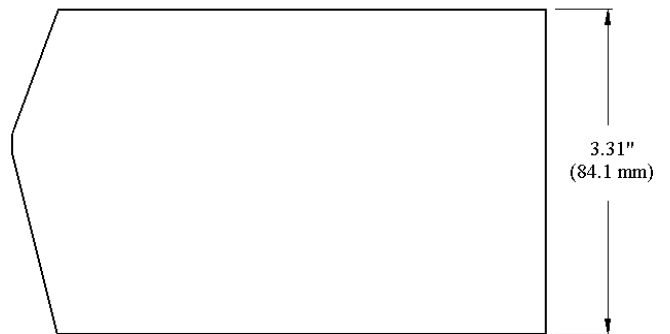
Grating blaze (nm)
250
350
500

#### Input and Output Slits

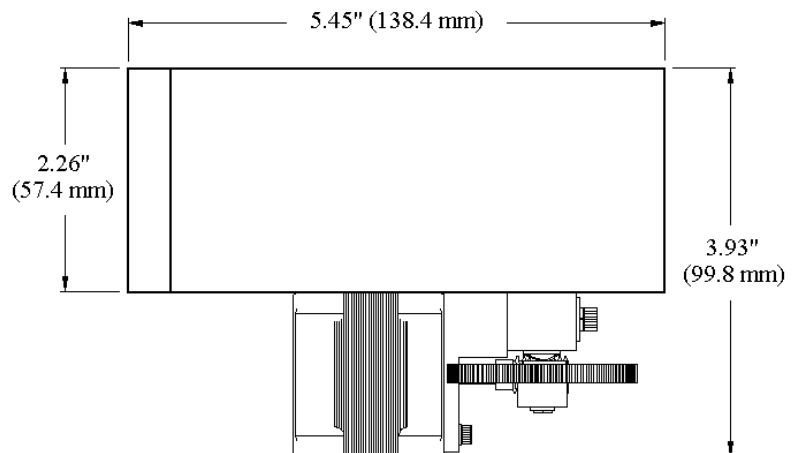
Part Number	Description
600.8.0100	(0.1 x 8 mm slit)
600.8.0250	(0.25 x 8 mm slit)
600.8.0500	(0.5 x 8 mm slit)
600.8.1000	(1.0 x 8 mm slit)
600.8.2000	(2.0 x 8 mm slit)

### MOTOR DRIVE

- **Step size** 0.27 nm/step at 200 nm  
0.26 nm/step at 500 nm  
0.24 nm/step at 800 nm
- **Step repeatability** 0.1 nm
- **Motor type** 1.8° stepper operating in half-step mode, 0.01° grating rotation per step, 4 Volt, 0.95 A, 2-phase
- **Grating rotation** 360°



Top view



Side view

Specifications subject to change without notice.

© 1998-2000, Jobin Yvon Inc.