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H10 series Monochromators

A Compact 10 cm Monochromator

In spite of its small size, the H10 monochromator offers performances equal to those of more sophisticated instruments.
The H10 monochromator is a versatile and low cost device that can be used in several applications such as lower resolution transmission/absorption and fluorescence or as a variable filter, for selecting a range of wavelengths from continuous light source.

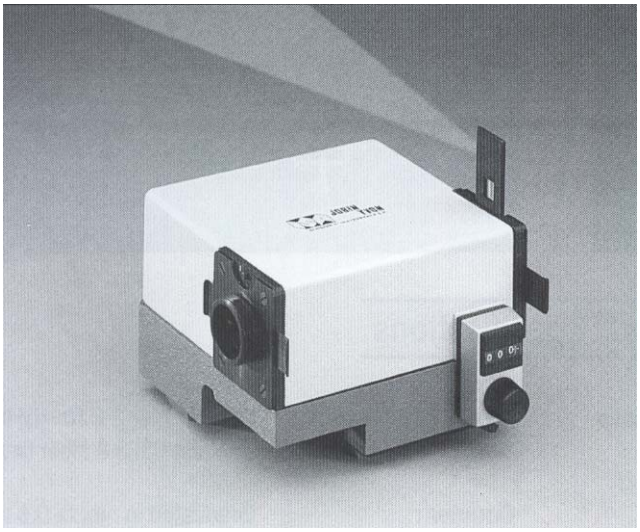
An Unique Optical Configuration

The H10 series Monochromators are built around an aberration-corrected concave holographic diffraction grating. This element plays a triple role: collimating, dispersing and focusing functions.

This optical design minimizes the number of optics for a higher throughput and offers a unique On-Axis entrance/exit port configuration.

The H10 features High Spectral Purity: High stray light level rejection of 10^{-5} at 8 nm from 632.8 nm laser line with a 1200 gr/mm grating.

A manual mechanical wavelength counter (motorization with RS232 or IEEE interface in option) and manual slits make the H10 extremely easy to use.
Several interchangeable fixed width slit inserts are available.
Each slit is supplied with a height limiter (continuously adjustable from 1 to 8 mm).
With its M28 thread attachment, the H10 can be easily equipped with a full range of accessories including light sources, detectors, fiber adapters, filter wheels and choppers.



H10 Monochromator

Specifications

Focal length	100 mm
Aperture	f/3.5
Resolution	Typically 1nm at 500 nm with 0.1 mm slit, 1200 gr/mm grating
Stray light	10 E-5 at 8 bandpass from 632.8 nm laser line
Wavelength counter	Digital, direct reading in nm with 1200 gr/mm grating, graduated in 0.2 nm intervals
Reproducibility	+/- 0.25 nm with 1200 gr/mm grating
Entrance/Exit slits	Fixed: 0.5, 1, 2 mm; other sizes available as options

Available Models

Model	Spectral range	Dispersion	Grating grove density
H10 UV	200 – 750 nm	8 nm/mm	1200 gr/mm
H10 Vis	350 – 800 nm	8 nm/mm	1200 gr/mm
H10 IR	400 – 1600 nm	16 nm/mm	600 gr/mm

Features

- Only Three internal optics
- On-Axis port configuration
- Fully Manual (Optional motorized drive)
- Low cost
- Compact and Robust

In the USA:
Jobin Yvon Inc
3880 Park Ave,
Edison, New Jersey,
08820 USA
Tel: (732)-494-8660
Fax: (732)-549-9309
Email: OSD@jyhoriba.com

In France:
Jobin Yvon SA
16-18 rue du Canal
91165 Longjumeau cedex
France
Tel: (33) (0) 1 64.54.13.00
Fax: (33) (0) 1 69.09.93.19

1-877-JYHoriba

China: 86-10-68313388
Germany: 89/46.23.17-0
Italy: 2/57.60.30.50
Japan: (81)3-5823-0140
U.K.: 020-8204-8142

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