



H20 series Monochromators

A Compact 20 cm Monochromator with a Concave Holographic Grating

The use of a concave aberration corrected holographic grating simplifies the optical configuration of the H20 monochromator in comparison to the other conventional 200 mm focal length monochromators. There is a large number of advantages in this optical design including flexibility of use, maximum level of transmission and high spectral purity. The typical applications for this compact device are Absorption/Transmission, Fluorescence, variable filter applications, Laser diode characterization...

An Unique Optical Configuration

The H20 series Monochromators are built around an aberration-corrected concave holographic diffraction grating. This element plays a triple role: collimating, dispersing and focusing functions.

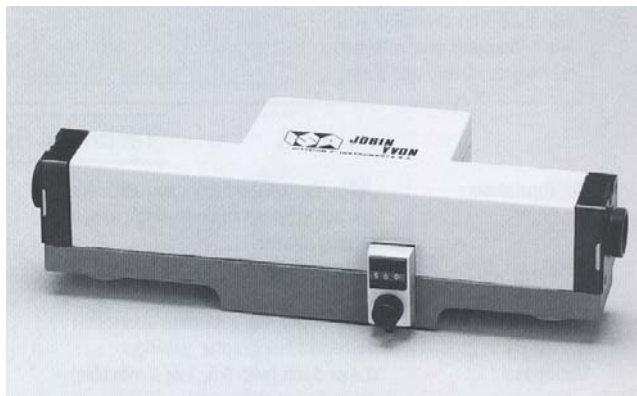
This optical design minimizes the number of optics for a higher throughput and offers a unique On-Axis entrance/exit port configuration.

The H20 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 H20 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 H20 can be easily equipped with a full range of accessories including light sources, detectors, fiber adapters, filter wheels and choppers.



H20 Monochromator

Specifications

Focal length	200 mm
Aperture	f/4.2
Resolution	Typically 0.5nm at 500 nm with 0.1 mm slit, 1200 gr/mm grating
Stray light	10^{-5} at 8 bandpass from 632.8 nm laser line
Wavelength counter	Digital, direct reading in nm with 1200, graduated in 0.2 nm intervals
Reproductibility	+/- 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	Dipersion	Grating groove density
H20 FUV	100 – 500nm	4 nm/mm	1200 gr/mm
H20 UV	200 – 750 nm	4 nm/mm	1200 gr/mm
H20 Vis	350 – 800 nm	4 nm/mm	1200 gr/mm
H20 IR	400 – 1600 nm	8 nm/mm	600 gr/mm
H20 FIR	800 – 3200 nm	16 nm/mm	300 gr/mm

Features

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

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