

OEM Compact Spectrograph

SPECTRO³

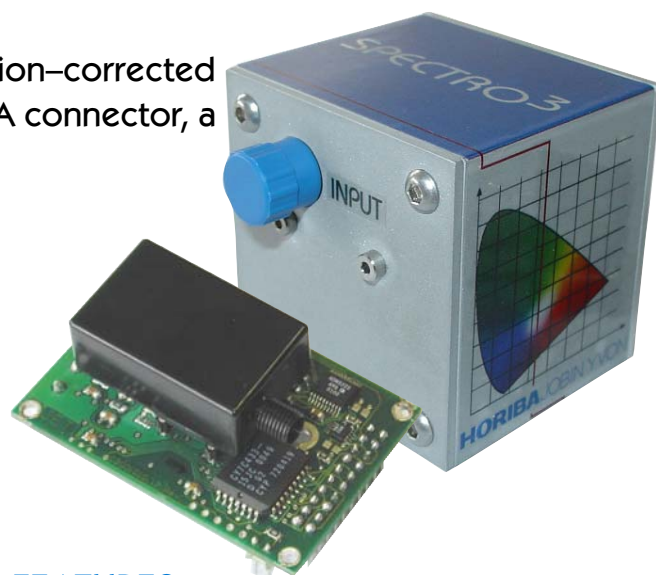
Description:

The miniature spectrograph CP20 has been developed for OEM applications. It will fit into a small, hand-held, portable instrument, or can take the place of larger spectrographs when space is at a premium.

The CP-20 spectrograph includes an aberration-corrected concave holographic grating, an optical slit, a SMA connector, a CMOS PDA array and a USB electronic driver.

The optical input is a SMA connector with an integrated slit.

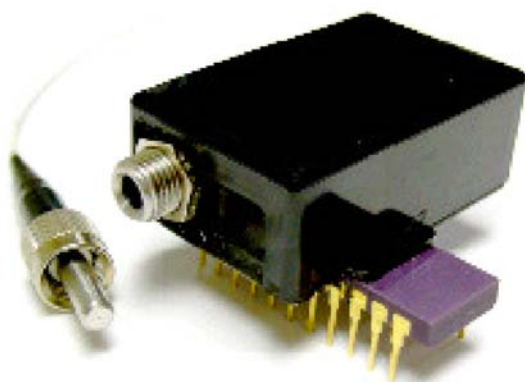
Different models of slits are offered depending on the resolution requested by the customer. The basic model is supplied with a slit of 100 μm width and 0.5 mm height.



FEATURES

- ☐ Compact, for hand-held instruments.
- ☐ Low stray light.
- ☐ Superb imaging properties.
- ☐ Reliable.
- ☐ OEM product.

The CP20 is sold specifically for quantity purchases and we can offer high volume customers custom modifications



CP20 Compact Spectrometer System

We are pleased to work with you to find a suitable solution to your requirements.

HORIBA JOBIN YVON

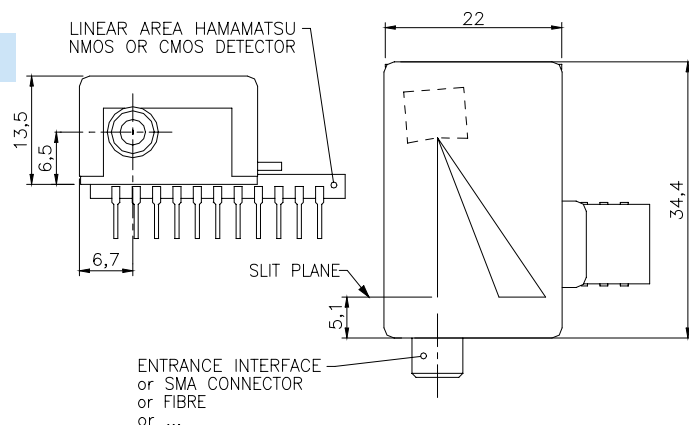
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Gratings & OEM Division

Specifications

- ❑ Grating: Flat field grating
- ❑ Focal length: 20 mm
- ❑ Spectral range: from 380 nm to 760 nm
- ❑ Aperture: f/2.7
- ❑ Resolution: < 5 nm with a slit of 50 μ m width
- ❑ Dispersion: ~75 nm/mm
- ❑ Input: SMA 905 connector
- ❑ Stray light: < 0.1% at 415 nm with RG630



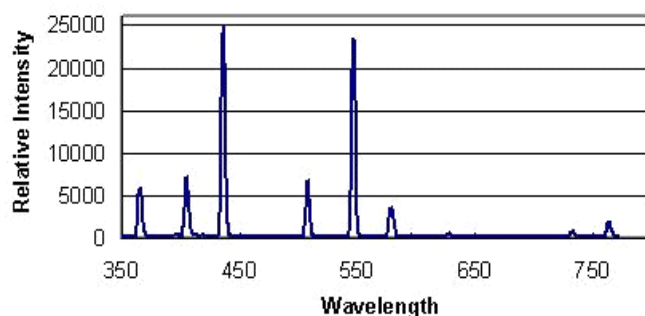
Available Sensors

- ❑ Hamamatsu: CMOS PDA ref.S837X...
- ❑ Taos TSLW 1401 and 1301

Electronic driver

- ❑ Resolution: ADC 16 Bit
- ❑ Interfaces: USB, RS232
- ❑ Processor : 32 Bit MCU 30 MHz
- ❑ Minimum integration time: 5 ms
- ❑ Maximum integration time: 60 000 ms
- ❑ USB transmission speed: 3 Mbit/sec
- ❑ RS232 transmission speed: 38400 Bit/sec
- ❑ Power supply: USB powered or +9V (RS232), max 150 mA

Hg Spectrum from Model CP20 with 50 μ m core fiber



Software

For evaluation purpose, a basic software is supplied with the CP20. This software features basic functions as: Dark, Reference, Absorbance, Save data (Ascii and Excel files) etc...

Applications:

The main applications are color measurement, medical diagnostics, spectrophotometry, environment, clinical chemistry,...

In North America:

HORIBA Jobin Yvon Inc.
3880 Park Avenue
Edison, New Jersey
08820, USA
Tel: +1 732 549 7405
Fax: +1 732 548 9725
Email: oemsales@jobinyvon.com

In France:

HORIBA Jobin Yvon S.A.S.
16-18, rue du Canal
91165 Longjumeau cedex
France
Tel: +33 (0)1 64 54 13 63
Fax: +33 (0)1 69 09 93 19
Email: info@jobinyvon.fr

Others areas:

China, Beijing: +86 (0) 10 6849 2216
China, Shanghai: +86 (0) 21 6447 9785
Germany: +49 (0) 89 46 23 17 0
Italy: +39 0 2 57 60 30 50
Japan: +81 (0) 3 3861 8234
U.K.: +44 (0) 20 8204 8142