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

OEM Compact Spectrograph

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.

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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 µm 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

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,...

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For Hg Spectrum from Model CP20 with 50 µm core fiber.