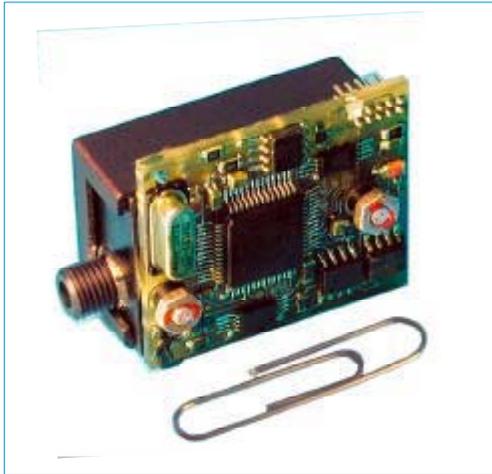


OEM Compact Spectrograph CP-20

Description:

The OEM miniature spectrograph CP20 is available with a choice of solid array detectors. Designed 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 is designed around an aberration-corrected type IV concave holographic grating with a 20 mm focal length and a f/2,7 aperture.



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.



Different models of linear array are available:

NMOS technology:

Hamamatsu S39XX series

CMOS technology:

Hamamatsu S8377 and 78

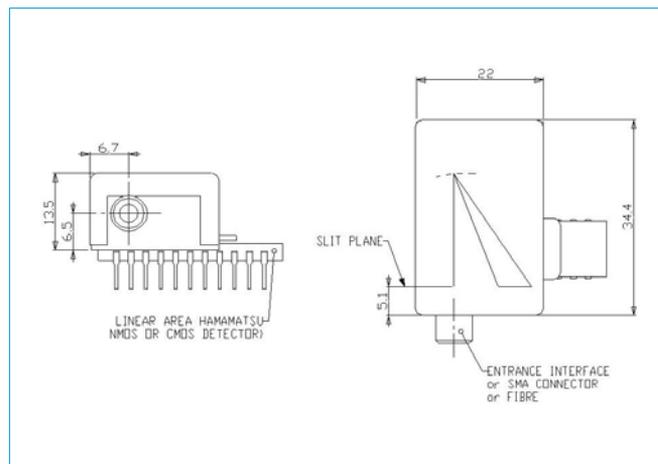
Taos ...

These detectors can be driven with high performance electronics which provide a high dynamic range (up to 16 bits ADC with PGA), an internal flash RAM to store and treat a large quantity of spectrum, as well as triggers and different interface such as RS232, RS485, USB, Parallel (8 bits) SPI etc...

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

Specifications:

- Flat field grating
- Focal length : 20 mm
- Spectral range : from 380 to 760 nm
- Aperture : f/2,7
- Resolution: 5 nm with a slit of 50 μ m width
- Dispersion : 100 nm/mm
- Input : SMA 905 connector

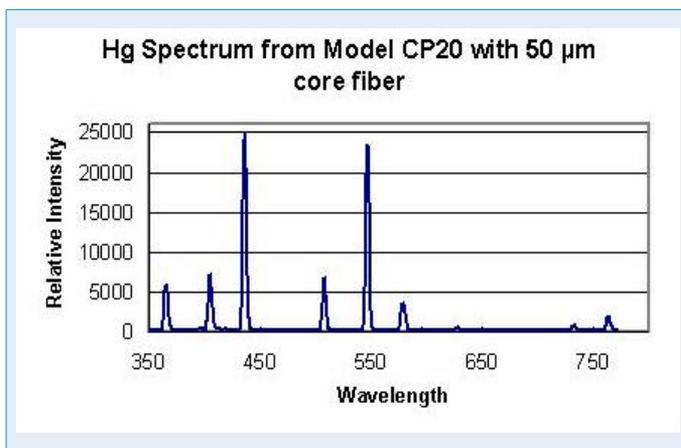


Performance:

- Resolution : <5 nm FWHM (with 50 μ m width slit)
- Wavelength accuracy: < 1 nm (with a fit)
- Stray light : <0,1% at 415 nm with RG630

Options:

- Different sizes of slit
- PDA detectors
- Electronic drivers RS232, USB, etc..



Applications:

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

The Jobin Yvon SAS OEM Group develops new spectrometers (monochromators and spectrographs) based on your specifications.

The OEM support team can assist you in selecting the best solution for your particular application

“Need more information on these devices?
Contact us!”

HORIBAJOBIN YVON

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