

***Compact and high resolution  
Ideal for high throughput  
portable solutions***

**l b s e n**   
p h o t o n i c s

Ibsen's FREEDOM C-UV spectrometers combine compactness with high resolution and are the ideal OEM solution for all those handheld and portable system applications where performance cannot be sacrificed.

The FREEDOM C-UV series comprises the FCU-109 for high resolution.

Furthermore, if the specifications do not match your requirements, Ibsen can customize an OEM spectrometer to meet your exact needs.



## **FREEDOM C-UV**

**190 – 435 nm OEM Spectrometer**

# FREEDOM C-UV 190 – 435 nm OEM Spectrometer

## Key Benefits



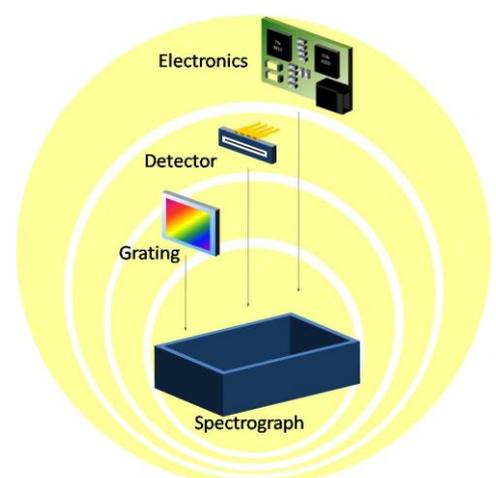
- **High resolution**
- **Compact size**
- **Flexible electronics**
- **Robust and athermal design**

## Specifications

Parameter	FCU-109
Wavelength range	190 - 435 nm
Numerical aperture	0.11
Typical resolution	0.15 nm/FWHM
Stray light	<0.03%
Detector	Hamamatsu S13496 CMOS
Interface	Direct interface to detector pins (optional electronics available)
Temperature drift	<0.02 nm/Degree C
Operating temperature range. Non-condensing	-10 to +45 Degree C
Dimensions	61 mm x 65 mm x 19 mm

## Modular Approach

Ibsen's OEM spectrometers are based on a modular design, whereby customers can choose to buy a complete spectrometer, a spectrograph or simply a spectrometer grating, depending on the approach that they prefer. Furthermore, our spectrometers can be fitted to almost any detector and electronics.



Specifications are subject to change without notice.