

***New Ultra Compact Spectrometer
Ideal for compact devices requiring high
performance***



Ibsen's PEBBLE spectrometers combine an ultra compact form factor with high resolution and sensitivity as well as environmental ruggedness.

PEBBLE NIR is based on the same proven diffraction grating technology used in all other Ibsen spectrometers. This ensures that PEBBLE can be manufactured in high quantities with very small unit-to-unit performance variation.

The ultra compact PEBBLE NIR covers a wavelength range of 950 – 1700 nm and offers a resolution of 12 nm.

If the specifications of our standard PEBBLE configurations do not match your requirements, Ibsen can customize an OEM spectrometer to meet your exact needs.



PEBBLE NIR

950 – 1700 nm OEM Spectrometer

PEBBLE NIR 950 – 1700 nm OEM Spectrometer

Key Benefits



- **Ultra compact size**
- **Un-cooled InGaAs detector**
- **High sensitivity and fast speed**

Specifications

Parameter	PBM-400
Wavelength range	950 - 1700 nm
Numerical aperture	0.22
Resolution	12 nm/FWHM (12.5 x 250 μ m slit)
Detector	Un-cooled InGaAs detector
Pixels	128 pixels: 25 x 250 μ m
Dimensions	23 x 21 x 8 mm without SMA connector and electronics
Weight	< 5 grams without SMA connector and electronics
Electronics interface options	1) Miniature flex connector 2) SPI 3) USB
Options	1) SMA coupling or free space 2) Order sorting filter (yes/no)

Electronics Options

Interface	SPI	USB
Electronics	DISB-400	DISB-400 + DISB-USB Bridge
ADC	16 bit	16 bit
Maximum frame rate	4.8 kHz	1.1 kHz
External trigger	Yes	Yes
On-board storage of calibration coefficient	Yes	Yes
Power (typical)	0.8 W	0.8 W

Specifications are subject to change without notice.