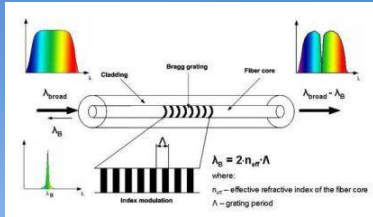


# FBG INTERROGATION CENTRAL UNIT LARGE WAVELENGTH RANGE

The FBG interrogator UCL – IBS0.2 is designed for a large type of application and can measure up to 450 FBG distributed on multiplexed optical channels. The device covers a wide wavelength range with an excellent resolution



## MEASURABLE PARAMETERS

- Temperatures
- Strains
- Vibrations
- Pressures
- Displacement
- Inclination

## GENERAL FUNCTIONALITIES

- Wide wavelength range to monitor a large number of sensors
- Can be used as a high-resolution spectrometer
- Standard LabVIEW based software interface for wavelength recording
- Customized graphical interface for temperature measurement

## APPLICATIONS (Monitoring)

- Civil engineering structures
- Energy generation and transportation
- Metallurgical process
- Railway and roadway infrastructure



# The best cost/performance ratio



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# FBG INTERROGATION CENTRAL UNIT

## LARGE WAVELENGTH RANGE

### OPTICAL SPECIFICATIONS

Number of optical channels	1, 2, 4, 8 or 16
Number of sensors per channel	Up to 70
Wavelength range	1510nm - 1590nm
Scan frequency	Up to 3 KHz
Dynamic range	30 dB
Resolution $1\sigma/1mn$	1pm
Repeatability	Typ 3pm, max 5pm
Temperature drift	Typ 1pm/°C, max 3pm/°C
Optical connectors	FC/APC

### ELECTRICAL, MECHANICAL, AND ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	0°C à + 40°C
Communication interfaces (*)	USB 2.0
Dimensions	300 mm x 261 mm x 134 mm
Weight	2Kg
Power Supply	5 VDC ( adaptor to 230 V included)
Power Consumption	20 W Max

# The best cost/performance ratio



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