



## Swift-FBGs Fiber sensor interrogation system

### Description

**Swift-FBGs** is a series of high speed, low-cost fiber Bragg grating interrogation systems for various engineering and civil applications. It is a compact, PC-based, high speed, high accuracy, large dynamic range measurement instrument that provides FBG sensors measurement ability and accuracy optical spectrum analyzing ability. The system includes a bench top instrument, PC based application software and optional high performance laptop. The user can choose 1310nm and 1550nm spectrum ranges. With build-in broadband light source, no additional light source needed.



### Features

- High speed detecting rate of 2kHz (real time)
- Simultaneously monitor 1 to 4 FBG sensors per channel.
- Each sensor can have up to 15nm spectrum range.
- Both reflection and transmission measurements are available.
- Display tension, pressure, temperature and other parameters in text and history curves.
- USB interface between the device and PC.
- 1310nm and 1550nm spectrum ranges are available.
- Build-in broadband light source

### Specifications

PARAMETER	SPECIFICATIONS	UNIT
Optical Channel number	1 – 4	channel
Maximum FBG sensors	1 – 4 per channel	--
Spectrum wavelength band	1310 or 1550	nm
Wavelength range	Up to 15.0	nm
Scan-to-scan repeatability	Typ. 20	pm
Wavelength resolution	5	pm
Scan speed	2 KHz	Second
Scan method	Single or Auto Timing	
Optical Connector	FC/APC	
Model number	<b>Swift-FBGs</b>	
Electric interface	USB	--
Operation temperature	0 ~ 40	°C
Storage temperature	-5 ~ 65	°C
Power supply	AC110V/220V (optional)	--
Dimension	255 x 245 x 110 (W x D x H)	mm



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### Application Software

