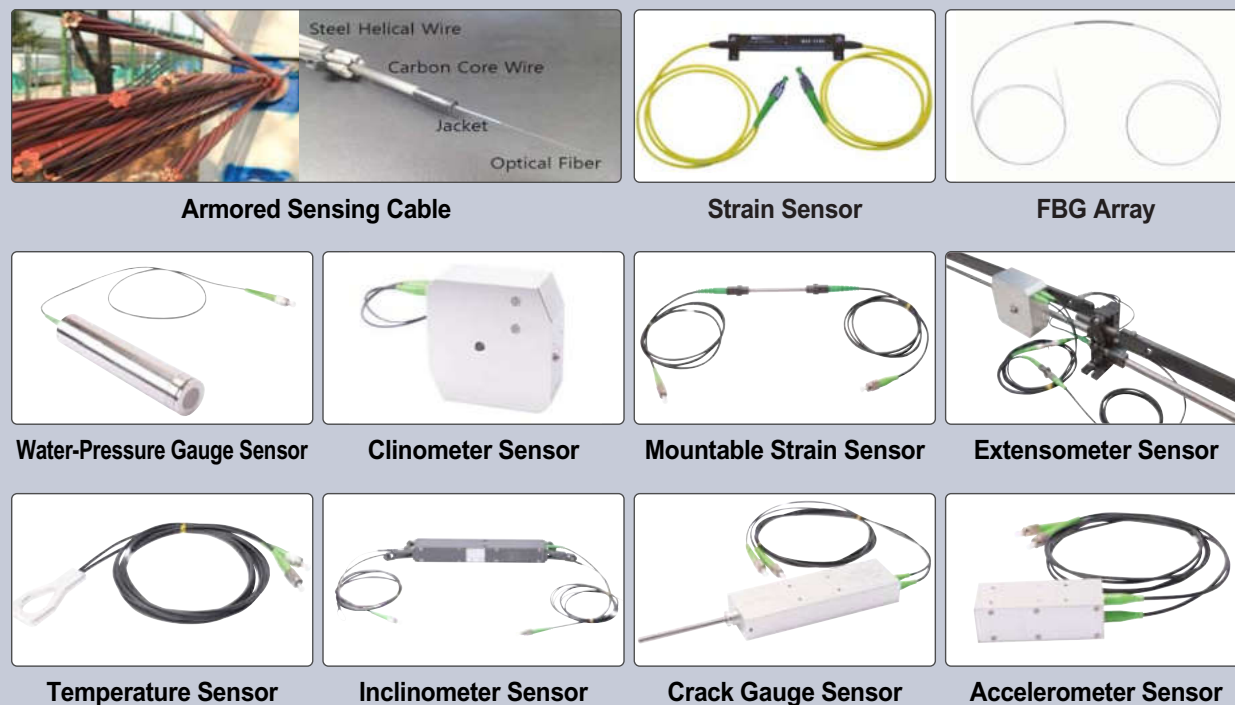


### FBG Sensors



## FBG Interrogation System

Strain, Temperature, Pressure, Acceleration monitoring  
Surveillance & Safety system

[www.fiberpro.com](http://www.fiberpro.com)

# F13300 / F13400



# FBG Interrogation System [FI3300/FI3400]

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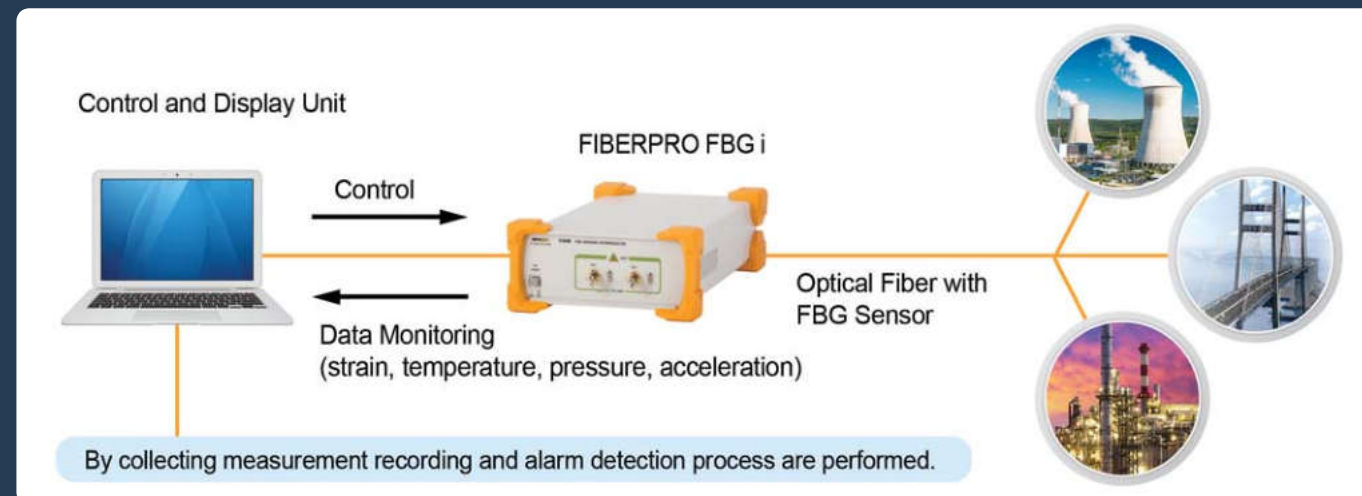
FIBERPRO's FBG sensing Interrogator is developed for a broad field of applications where fast and accurate multichannel analysis of Fiber Bragg Grating sensors is needed. This device covers a wide wavelength range with excellent accuracy.

## Features

- Max. 16 channels.
- Max. 24 FBG sensors per channel (3 nm spacing)
- Broad wavelength range : 85 nm
- High wavelength accuracy : < 20 pm Typ.
- Fast measurement speed : Max. 10 kHz



## System Configuration



## Applications

- **Structural monitoring**  
Strain and temperature monitoring of large structures
- **Surveillance and safety systems**  
Overheat detection and special temperature monitoring
- **Environmental sciences**  
Temperature profile monitoring



## Specifications

Model Name	FI3300	FI3400
<b>Optical</b>		
Wavelength Range	1510 ~ 1595 nm (85 nm)	
Wavelength Accuracy	< 20 pm Typ. (0 ~ 50°C)	
Wavelength Repeatability	< 3 pm Typ.	
Dynamic Range (One way optical loss)	< 25 dB	
Source Output Power	< 10 mW (Max.)	
Number of Sensor	Up to 24 (3 nm Spacing)	
Number of Channels	2, 4, 8	2, 4, 8, 16
Maximum Measurement Frequency	800/N Hz (N : Selected channel No.)	1600/N Hz <sup>1)</sup> (N : Selected channel No.)
Optical Connector Typ.	FC/APC	
<b>Electrical</b>		
Power Supply	AC 100 ~ 240 V	
Power Consumption	Max 15 W	
Interfaces	TCP/IP, USB	
<b>Environmental</b>		
Operating Temperature	0 ~ 50 °C	
Storage Temperature	-40 ~ 85 °C	
Humidity	20 % to 85 % RH	
Altitude	0 to 6,562 ft. (2000 M) above sea level	
<b>Mechanical</b>		
Dimensions (W x D x H)	234 mm x 410 mm x 108 mm (With rubber cover) 212 mm x 380 mm x 86 mm (Without rubber cover)	
Weight	About 5 kg	

1) FI3400 : 10 kHz (in case no. of selected channel is 1.)

\* Above specifications are subject to change without prior notice.

## Ordering Code

**FI3(1)00 - (2) - (3)**

1. Model ⇒ FI3300(3), FI3400(4)
2. The number of channel ⇒ 2ch(2), 4ch(4), 8ch(8), 16ch(16)
3. Connector type ⇒ FC/APC(F/A), LC/APC(L/A). The others(C)