

Guyana Dual-Channel Fiber Optic Sensor



Overview

SET to come on stream in 2024, ExxonMobil's Payara project will bring with it not only the natural bounties which lie below the seabed offshore Guyana, but also new and industry-leading technologies such as the fibre-optic sensing system, which was developed by Halliburton and. SET to come on stream in 2024, ExxonMobil's Payara project will bring with it not only the natural bounties which lie below the seabed offshore Guyana, but also new and industry-leading technologies such as the fibre-optic sensing system, which was developed by Halliburton and. 6Wresearch actively monitors the Guyana Distributed Fiber Optic Sensor Oil & Gas Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook. Our insights help businesses to make data-backed strategic decisions with. A state-of-the-art Subsea Fiber Optic Solution technology which ExxonMobil has selected for its third major deepwater project offshore Guyana is the largest the industry has seen to date. This is according to TechnipFMC, who along with Halliburton, introduced the technology last year. The award followed completion of. Fiber SenSys®, Inc., (FSI) is the market-leading manufacturer of fiber-optic intrusion detection systems for outdoor perimeters and physical data networks.



Article Content

May 05, 2026

TechnipFMC And Halliburton's Subsea Fiber Optic

TechnipFMC and Halliburton have received an OTC Spotlight on New Technology Award® (SONT) for their Odassea™ Subsea Fiber Optic Solution, an

Jun 26, 2026

TechnipFMC, Halliburton providing fiber optic solution

U.S. oil major ExxonMobil selected the solution for its Payara development project in Guyana. The award followed completion of front-end

Apr 27, 2026

Largest fibre-optic sensing system for Payara project

According to a joint statement from TechnipFMC and Halliburton, the Odassea (TM) subsea fibre-optic solution, an advanced, down-hole fibre-optic

Apr 16, 2026

Odassea chosen for Payara, OTC award | Offshore

HOUSTON – ExxonMobil has contracted TechnipFMC and Halliburton to supply their Odassea subsea downhole fiber optic sensing system for the

Apr 26, 2026

Dual-channel fiber optic current sensor based on carrier-transposed ...

A dual-channel fiber optic current sensor based on carrier-transposed modulation technique is proposed and demonstrated. The cross-talk between two channels is tactfully eliminated, which provides an

Feb 19, 2026

dblp: Dual-Channel Fiber Optic Current Sensor Based on Two-Carrier ...

Bibliographic details on Dual-Channel Fiber Optic Current Sensor Based on Two-Carrier Modulation Technique.

Feb 02, 2026

Dark Fibre: Enhancing Guyana's Digital Infrastructure for Data Centres ...

Executive Summary This report examines the potential of dark fibre infrastructure to revolutionize Guyana's digital landscape. Dark fibre, representing unused optical fibre cables, offers

Dec 09, 2025

Guyana Distributed Fiber Optic Sensor Market (2024-2030 ...

Guyana Distributed Fiber Optic Sensor Market is expected to grow during 2024-2030

Jun 24, 2026

A Dual Channel Fiber Optical SPR Sensor for Combined Detection of ...

Diabetes is a chronic disease, accompanied by a series of complications, of which diabetic kidney disease (DKD) is one representative disease. Simultaneous detection of glucose and uric acid, as

Dec 11, 2025

Digicel's undersea fiber optic cable, Deep Blue One, is now in service

Digicel Group has commissioned its undersea fiber optic cable, Deep Blue One. This significant investment in international submarine capacity will greatly improve connectivity in the

Mar 30, 2026

Gold Nanoparticle-Enhanced Dual-Channel Fiber-Optic

Surface plasmon resonance (SPR) sensors based on photonic crystal fibers (PCFs) hold significant promise for high-precision detection in biochemical

Sep 07, 2025

Dual-channel fiber-optic surface plasmon resonance sensor with

Abstract To address the restriction of fiber-optic surface plasmon resonance (SPR) sensors in the field of multi-sample detection, a novel dual-channel fiber-optic SPR sensor based on the cascade of coaxial

Mar 28, 2026

Dual-channel fiber optic current sensor based on carrier-transposed ...

A fiber-optic Fabry-Perot interferometer (FPI) is proposed and demonstrated as an electric current sensor based on ohmic heating with temperature self-compensation.

Nov 04, 2025

Latest submarine fibreoptic cable to add 13 terabytes of capacity this ...

says "no turning back" from Govt's development trajectory Prime Minister, retired Brigadier Mark Phillips has announced that the latest submarine fibre optic cable, undertaken by

Nov 02, 2025

Low Crosstalk Dual Parameter Fiber Optic Sensor for Simultaneous ...

This study presents a groundbreaking dual-channel sensing technology embedded within a meticulously fabricated microcavity optical fiber structure using femtosecond laser technology. This microcavity

Jul 10, 2025

Numerical Analysis of Dual-Parameter Optical Fiber Sensor With

Multi parameter measurement and device miniaturization are the development trend of optical fiber sensors. Here we propose a compact dual channel surface plasmon resonance (SPR)

Sep 14, 2025

Industry's largest subsea fiber optic sensing project being developed ...

"ExxonMobil selected the solution for its Payara development project in Guyana, the industry's largest subsea fiber optic sensing project. The award followed completion of front-end

Nov 26, 2025

Guyana Distributed Fiber Optic Sensor In Oil & Gas Market (2024

Historical Data and Forecast of Guyana Distributed Fiber Optic Sensor In Oil & Gas Market Revenues & Volume By Distributed Acoustic Sensing (DAS) for the Period 2020- 2030

Feb 08, 2026

Dual-Channel Fiber Optic Current Sensor Based on Two-Carrier

In the experiment, the two channels have a maximum current sensitivity of 1.1 and 0.8 mV/A, respectively. In addition, the system has excellent long-term stability, as evidenced by signal

Oct 12, 2025

Dual-channel SPR sensor based on an MMF-DHSMF-NCF reflective

Nowadays, dual-channel optic fiber sensors based on SPR have become popular for simultaneous RI and temperature measurement due to their label-free operation, exceptional

Dec 16, 2025

Dual-channel fiber optic current sensor based on carrier-transposed ...

A dual-channel fiber optic current sensor based on carrier-transposed demodulation technique is proposed and experimentally demonstrated. The system is implemented by adding

Feb 16, 2026

Single-Channel Optical Fiber Dual-Parameter RNA Sensor Based on ...

A dual parameter localized surface plasmon resonance (LSPR) biosensor using a single optical fiber for the simultaneous detection of two RNA targets has been proposed in this article. The

Aug 05, 2025

Digicel to expand fiber optic network across Guyana – CEO

– to pump \$17M into humanitarian effort as company celebrates 17 years in Guyana
As Digicel celebrates 17 years of operating in the Guyanese

Sep 28, 2025

Design of a dual-channel fiber optic SPR sensor for the ...

Mercury (Hg^{2+}) and lead (Pb^{2+}) are among the most hazardous heavy metals, so effective monitoring systems for their detection in water are needed to protect environment and

May 05, 2026

Guyana Distributed Fiber Optic Sensor Oil & Gas Market (2025-2031 ...

6Wresearch actively monitors the Guyana Distributed Fiber Optic Sensor Oil & Gas Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue

May 14, 2026

optical-fiber-sensor Companies and Suppliers serving Guyana ...

List of optical-fiber-sensor companies, manufacturers and suppliers serving Guyana

May 28, 2026

Figure 2 from Dual-Channel Fiber Optic Current Sensor

An innovative dual-channel fiber optic current sensor (FOCS) based on two-carrier modulation technique is proposed and experimentally demonstrated. The system

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