NetworkIntegrity
S Y S T E M S

LONG-RANGE INTRUSION DETECTION w/ PINPOINT LOCATION

INTERCEPTOR™ FOCUS
Optical Intrusion Detection System

INTERCEPTOR™ FOCUS
Optical Intrusion Detection System

Long-range cable deployments are frequently targeted for attack, a problem exacerbated by their wide expanse and often remote location. Cables, typically buried, are not easily visually inspected. This creates a situation where it is difficult to identify the nature of the attack and its location.

INTERCEPTOR FOCUS is our cutting-edge sensing technology that immediately detects and identifies any threat to your network infrastructure, while pinpointing its exact location.

OVERVIEW

INTERCEPTOR FOCUS is a network infrastructure cyber security solution utilizing state-of-the-art Distributed Acoustic Sensing (DAS) technology to provide long-range capability and pinpoint location of any physical disturbance to your classified communications cable, anywhere along the cable, up to 40km in length. The system continuously monitors the entire cable and pathway to immediately detect and report the most sophisticated intrusion attempts, or even the subtlest tampering, conducted for the purposes of data theft (tapping) or denial of service.

Fully integrated with our proprietary CyberSecure software platform, the INTERCEPTOR FOCUS solution will centrally monitor and continually automate CNSSI 7003 required inspections and customized Standard Operating Procedures (SOP) for immediate response to any threat to your classified network. The INTERCEPTOR FOCUS can be rapidly deployed in new or existing network infrastructure to rapidly provide security to your physical layer.

WHAT IS DAS?

DAS is an extremely advanced type of fiber optic sensor that sends pulsed laser light into a single strand of single-mode optical fiber and monitors the Rayleigh backscatter from the reflected light. The Rayleigh backscatter pattern changes with acoustic and vibrational energy. Once the reflected pattern is received, it is processed and analyzed by advanced algorithms to determine the type of event, such as digging near buried conduit, cutting into conduit, and physical handling of the cable. The system will also provide precise location along the cable and monitor the event over time.

FEATURES

- ✓ Identifies disturbances such as vehicle approach, digging, conduit entry, and cable handling
- ✓ Extreme sensitivity using state-of-the-art DAS technology
- ✓ Detects intrusions along a cable up to 40km in length
- ✓ Pinpoints the exact location of intrusion events within 16' (5m)
- ✓ Low installation cost, using a single strand of telecommunications grade optical fiber
- ✓ Simplifies Information Assurance (IA) management
- ✓ Creates site specific CNSSI 7003 compliant Standard Operating Procedures
- ✓ Generates a unique case resolution audit trail

Full Featured Dashboard Graphical User Interface

The **INTERCEPTOR FOCUS** can be combined with other solutions including the SENTINEL™ Perimeter Security System and Universal Cyber Sensors. Using an interactive map of all alarmed zones within and outside the secured perimeter, the map interface provides a Zone Status indicator for each optical fiber cable run. When an optical disturbance is detected, the location of the disturbance will be displayed on the CyberSecure IMS dashboard within seconds of its occurrence.
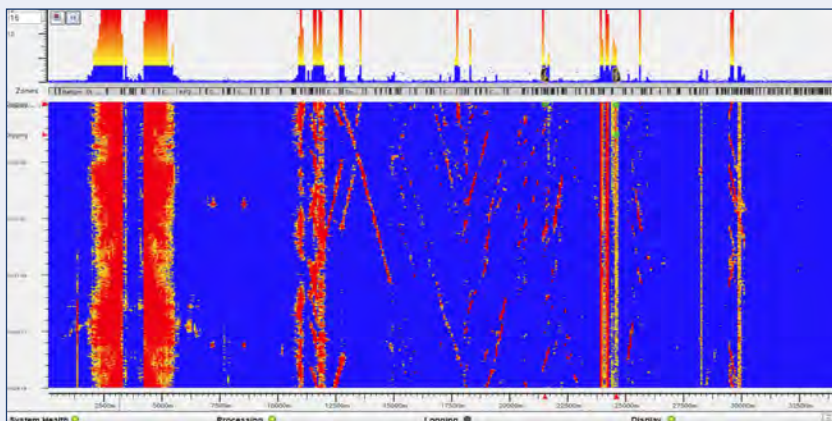

Nuisance Alarm Mitigation

INTERCEPTOR FOCUS, like all INTERCEPTOR technology, is capable of eliminating all nuisance alarms.

Smart Filtering™ Technology

The INTERCEPTOR features Smart-Filtering technology which eliminates false alarms by learning the normal day-to-day activity present within the environment.

FIBER FORENSICS™
Optical Disturbance Severity Graph

INTERCEPTOR FOCUS captures all characteristics of a real-time intrusion attempt and displays it to the Network Security Specialists for immediate analysis. A Fiber Forensics™ signature created by accidental contact with the cable is drastically different from a signature created by an actual intrusion attempt. This gives dispatchers complete control over whether or not to trigger an alarm response investigation, effectively eliminating nuisance alarms before they occur.

OPTICAL WARNING SYSTEM

Our CyberSecure IMS software tool gathers unique optical signature information from the INTERCEPTOR every time an optical disturbance is detected on an alarmed cable and analyzes the severity of the event. This provides dispatchers with real-time information that allows them to discern accidental contact optical disturbances from real threats to the network. This gives Network Security Specialists the ability to create a user configurable warning threshold per zone and only trigger alarms when the threshold is crossed, reducing the number of nuisance alarms by as much as 99%.

Integrated CNSSI 7003 Compliant Standard Operating Procedures (SOP) Management

CyberSecure IMS comes equipped with a user-configurable SOP template that contains the alarm notification list, zone media (digital images & CAD drawings), an Information Assurance case record for each alarm triggered in the system and a remotely configurable 'Zone Reset' button.
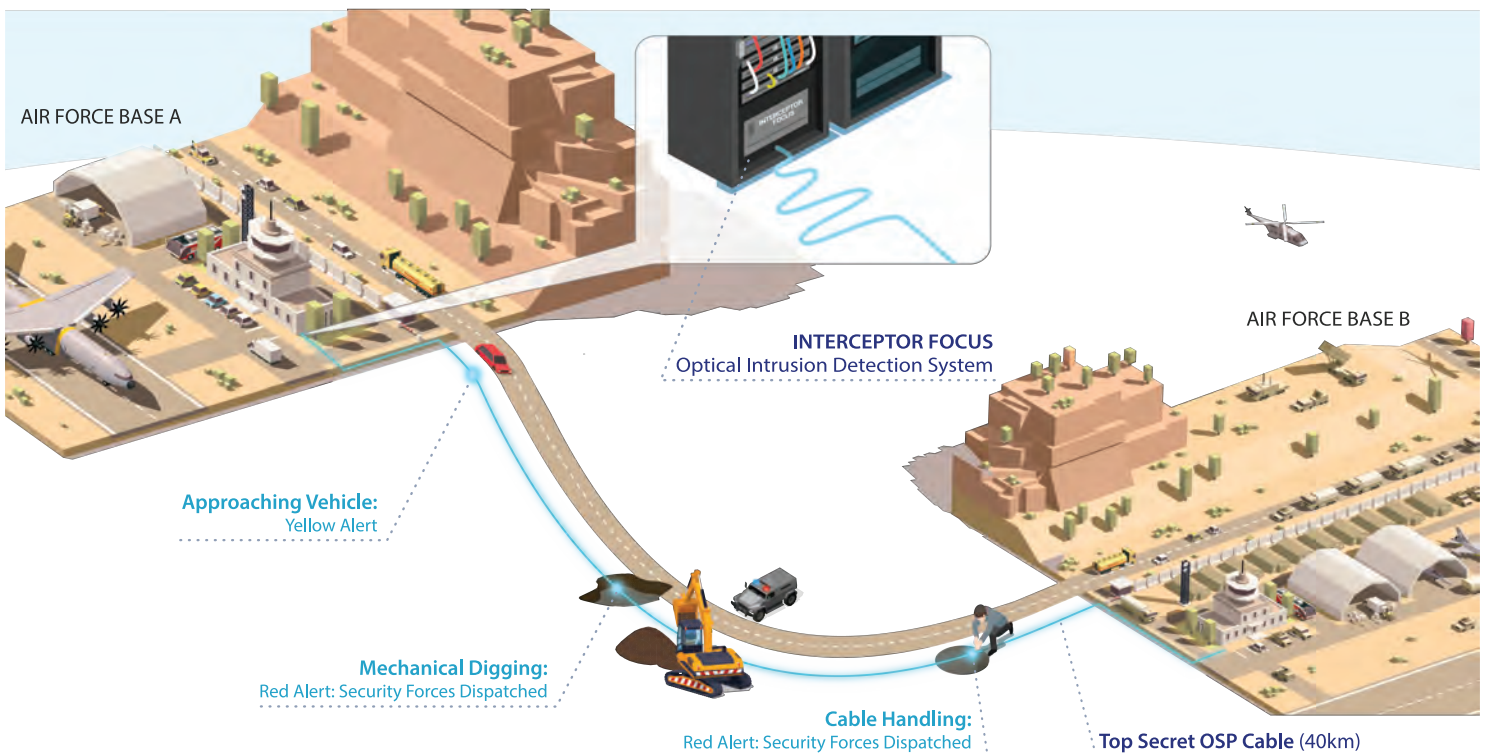
INTERCEPTOR FOCUS: Classified Data, Protected.

Protect your classified data communications from impending threats!

INTERCEPTOR FOCUS is designed for deployment on new or existing cables in your critical infrastructure. Our solution will immediately detect and categorize threats, alerting physical security and/or Information Assurance (IA) personnel to the intrusion attempt and providing pinpoint location of the breach. The sensor will immediately, and simultaneously, detect all threat scenarios, including:

+ Approaching vehicles
+ Manual and mechanical digging
+ Cutting of conduit
+ Handling cable
+ Installation of a fiber optic tap

INTERCEPTOR FOCUS OPTICAL INTRUSION DETECTION SYSTEM

AIR FORCE BASE A

AIR FORCE BASE B

INTERCEPTOR FOCUS
Optical Intrusion Detection System

Approaching Vehicle:
Yellow Alert

Mechanical Digging:
Red Alert: Security Forces Dispatched

Cable Handling:
Red Alert: Security Forces Dispatched

Top Secret OSP Cable (40km)

INTERCEPTOR FOCUS is continually on watch to protect your classified network deployment. It is the most secure and cost-effective method of supporting active and compliant missions. **Contact us today** to request a demo, site assessment, and/or pricing for your environment.

NetworkIntegrity
SYSTEMS

WE BRING SECURITY TO LIGHT™

Network Integrity Systems, Inc.
1937 Tate Boulevard, SE
Hickory, North Carolina 28602
877.647.4737

networkintegritysystems.com
1.877.NIS.4PDS