

A nighttime photograph of a city street with light trails from cars, creating a sense of motion. The background shows illuminated skyscrapers and modern architecture.

# Introducing the PULSE™ Sensor Verification System

- Detect any change in the state of your sensing system, scheduled or on-demand
- Test on a schedule, or on-demand, with no interruption to intrusion detection
- Make even the most sophisticated attacks exponentially more difficult

## Why do I need PULSE™ ?

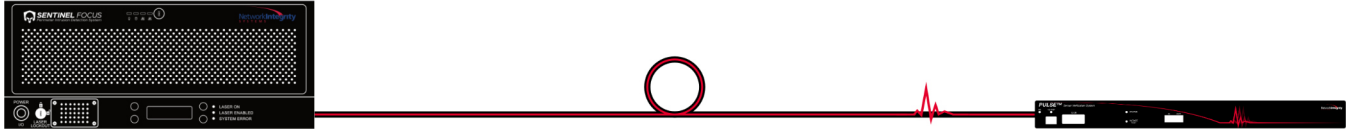
At Network Integrity Systems (NIS), we design our sensor technology to be incredibly reliable and accurate at detecting intrusion attempts or other events on perimeter and communications network infrastructure. That is why we are the leaders in the industry and have deployed thousands of systems around the globe to support the U.S. Government and Military's efforts in securing classified networks, especially in the local area network (LAN) space.

NIS has expanded its technology portfolio to include the INTERCEPTOR FOCUS™ and VANGUARD FOCUS™ Optical Intrusion Detection Systems, designed to meet the unique needs of long-haul infrastructure monitoring for both US Government and Commercial customers. Since long-haul network infrastructure is located outside of controlled environments, their pathways are more vulnerable to intentional intrusions, theft, or accidental damage. These risks are compounded by the fact that events are typically difficult to discover, locate, and prevent.

NIS' extensive background in protecting the nation's most critical networks gives us insight into the serious nature of network infrastructure vulnerabilities. We understand that the reliability of our products has to exceed that of other industrial or enterprise solutions and that, although we make every effort to ensure our products are as impenetrable as possible, our enemies will learn to target and potentially breach any detection mechanism. NIS therefore invests significant time and resources into ensuring our detection capabilities are always state-of-the-art by thinking through sophisticated attack vectors that could take place and designing our systems to protect against these attacks. In our view, the possibility of an assumed-protected network unknowingly falling into a weakened or compromised state, or potentially being spoofed by a sophisticated adversary or insider threat would be catastrophic. Because of this threat potential, NIS has recently developed the **PULSE™ Sensor Verification System**. When coupled with our FOCUS™ Sensing Solutions, this patent pending technology provides unparalleled assurance that your intrusion detection system is always operating exactly as it was commissioned and not compromised in any way.

## How does PULSE™ work?

The innovative PULSE solution creates a unique heartbeat on the FOCUS sensor to allow detection of any type of change in the state of the sensor itself, thereby verifying that it is always operating as commissioned. Any variation in or lack of heartbeat is an indication that the system's state of detection has changed, or been altered, and should be investigated.



### Product Specifications:

#### Electrical

Power Input 100/240V, 250mA 60/50Hz  
IEC C14 3-Position Connector

#### Environmental

Operating Temperature 0°C – 45°C  
Storage Temperature -10°C – 50°C  
Operating Humidity 20% – 80% Non-Condensing

#### Physical

1U high, 19" Rack Mountable  
H x W x D: 45 x 432 x 368 mm  
H x W x D: 1.75 x 17.0 x 14.5 inches

#### Weight

6.8 kg (15 lbs)

#### Local Management

Test initialization button

#### Remote Management

RS232 Serial: Console Access  
1000BaseT Ethernet: SSHv2, Telnet, SNMPv2c, SNMPv3

#### Alarm Management

SNMPv2c, SNMPv3, Syslog,  
Self-Test Heartbeat LED Indicator  
Email, SMS alerts

#### Optical

1 Input port  
1 Output port  
SC/APC Duplex Connectors

#### Industry Certifications & Features

PULSE is UL, FCC Part 15, IEC Class 1,  
CDRH Class 1, and CE rated & certified