



SENTINEL FOCUS<sup>NX</sup>™ is the next generation Perimeter Intrusion Detection System from NIS, providing a state-of-the-art long-range fiber optic sensor that utilizes Distributed Acoustic Sensing (DAS) to detect and pinpoint the exact location of intrusions on a perimeter. It has proven its capabilities by protecting highly classified U.S. Government facilities and other critical infrastructure sites. A centrally located SENTINEL FOCUS<sup>NX</sup> sends and receives light into and from optical fibers that are covertly buried, fence-mounted, or wall-mounted along borders and facility perimeters. When physical intrusions create vibrations that reach the optical fibers, the interrogator discerns changes in the light. Then, machine learning-based AI instantly and simultaneously classifies and locates the multiple physical intrusions.

## SENTINEL FOCUS<sup>NX</sup>™ Technical Specifications

### OPTICAL SPECIFICATIONS

Optical Sensing Ports	2 x E2000-PS APC
Optical Range (@6.4m gauge length)	up to 50km per port
Fiber Type	OS2 (ITU-T G.652, G.654, or G.655)

### ELECTRICAL

Power Input	100-240V AC, 60/50 Hz 24/48V DC
Power Supplies	Dual Redundant
Operating Power (Typical)	<100 Watts
Maximum Power (Maximum)	165 Watts
Heat Management	Passive Cooling

### ENVIRONMENTAL

Operating Temperature	-5°C – 50°C
Storage Temperature	-40°C – 70°C
Operating Humidity (Max)	85% Non-Condensing

### PHYSICAL

Installation	19" Rack Mount (3 RU)
Dimensions (in - HxWxD)	5.22 x 19 x 17.8
Dimensions (mm - HxWxD)	132.5 x 482.6 x 453
Weight (lbs)	37
Weight (kg)	17
Mounting Option (Rack)	4 post rack w/ slide rails
Mounting Option (Wall)	Bracket

### REMOTE MANAGEMENT

Network (Ethernet SFP)	SFP
Protocols	ZeroMQ API

### OPTICAL SPECIFICATIONS

Optical Connection	LC/APC
Ports	2
Dynamic Range (single-mode)	18dB
Detection range	Up to 100km on Single-mode Fiber

### INDUSTRY CERTIFICATIONS

Laser Safety	Class 1 LASER PRODUCT (IEC 60825-2014, 21CFR1040.10/11)
Safety (UL)	USA: UL 62368-1 EU: CE compliant - 2014/35/EU
EMC Compliance	USA: FCC Part 15 B EU: CE Compliant - 2014/30/EU
Cybersecurity	CIS Certified

*For specifications on all other products and the Warranty and Support Program, please refer to our website at [www.networkintegritysystems.com](http://www.networkintegritysystems.com)*