



The VANGUARD™ Fiber Optic Network Monitoring System safeguards the integrity and availability of critical network data using advanced fiber optic sensing technology. Through continuous monitoring of unused fibers within optical cables, VANGUARD delivers 24/7 protection against physical tampering, eavesdropping, and sophisticated intrusion attempts that could lead to data theft or service disruption.

By securing the network at its physical foundation—Layer 1—VANGUARD provides early threat detection and real-time alerts, helping prevent breaches or damage that can compromise performance, revenue, and customer trust.

Built to military-grade standards, and using our patented point-to-multipoint (hub and spoke) technology, a single VANGUARD unit protects up to eight independent cables or pathways, delivering unmatched security for fiber routes in exposed or uncontrolled environments.

VANGUARD integrates seamlessly with INSIGHT™ Alarmed Management Software to provide centralized, real-time visibility of your network's security posture. It can also connect to third-party management platforms, enabling organizations to enhance existing infrastructure while extending their monitoring and defense capabilities.

VANGUARD Technical Specifications

ELECTRICAL

Power Input	100/240V AC, 60/50 Hz
Power Supply	Single or Dual Internal, Replaceable
Power Supply Connector	IEC C14 3-position
Operating Power	15 Watts
Maximum Power	17 Watts
Power Factor	0.5
Heat Dissipation Normal	52 Btu
Heat Dissipation Maximum	58 Btu

ENVIRONMENTAL

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

PHYSICAL

Installation	19" Rack Mount (1RU)
Dimensions (in)	1.75 x 17.0 x 14.5
Dimensions (mm)	45 x 432 x 368
Weight (lbs)	15
Weight (kg)	6.8

LOCAL MANAGEMENT

Channel Status Indicator and Reset Button per channel

REMOTE MANAGEMENT

Console Port	RS-232 Serial
Network	1000Base-T
Protocols	TACACS+, SSHv2, Telnet, SNMPv2c, SNMPv3

ALARM MANAGEMENT

Protocols	SNMPv2c, SNMPv3, Syslog, Email, SMS
Physical	NO/NC Contacts

OPTICAL SPECIFICATIONS

Optical Connection	LC Duplex
Ports (single-mode)	2 or 4
Ports (multimode)	2, 4 or 8
Dynamic Range (single-mode)	55dB
Dynamic Range (multimode)	50dB

INDUSTRY CERTIFICATIONS

UL, FCC Part 15, IEC Class 1, CDRH Class 1
CE Rated and Certified

**Multimode VANGUARDS can use a desensitized single-mode lead-in fiber with Multimode sensor fiber. Single-mode VANGUARDS are sensitive beginning at the port connection*

For specifications on all other products and extended warranty and support plans, please refer to our website at www.networkintegritysystems.com