

Product Information

VANGUARD FOCUS™ Distributed Acoustic Sensor (DAS) Point Locating Perimeter Intrusion Detection System



VANGUARD FOCUS™

The VANGUARD FOCUS continuously monitors a single strand of standard single-mode fiber to detect Vehicle Approach, Digging, Conduit Entry, and Cable Handling events on your network infrastructure. Using state-of-the-art Distributed Acoustic Sensing (DAS) technology, Vanguard Focus will detect intrusions and report their location to within 5m (16').

Product Specifications for VANGUARD FOCUS

Electrical

Voltage, Frequency: 115-230 VAC 50-60 Hz
Power: 450W (Max.) 300W (Typical)

Environmental

Operating Temperature: +5°C to +40°C (41°F to 104°F)
Operating Humidity: 80% RH for temperatures up to 31°C (87.8°F)

Physical

Size w/o brackets and rear guards (HxWxD):
178mm x 483mm x 540mm (7" x 19" x 21.25") (4U)
Focus EX - Size w/o brackets and rear guards (HxWxD):
222mm x 483mm x 540mm (8.75" x 19" x 21.25") (5U)

Weight

24kg (53 lbs) (Focus EX = 29kg (64lbs))

Local Management

Laser status LED indicators
Mechanical laser lockout
1x DVI-I port
USB2.0 = 2x front panel, 2x rear panel
USB3.0 = 2x front panel

Data Storage: eSATAp
Storage Volume: Up to 3TB

Remote Management

1x TIA-232 or RS-232 port
1x 1GB Ethernet port

Alarm Management

XML
CyberSecure IMS Integration

Optional Features

Optional 10GegE card for data streaming
Option to install RAID card and connect to a RAID array

Optical

1 or 2 Ports: 1x E2000 APC optical connector (2x for Focus EX)
Dynamic Range: 12.5dB
Fiber Type: Single-mode 1550 nm ITU G652 series
Pulse Lengths: 2, 3, 5, 10, 20, 50m
Spatial Sampling Rate: 0.67m
Minimum detection frequency: 1 Hz
Maximum detection frequency: 20 kHz (at 2.5km of cable length)
Frequency Response:
5km cable = 10 kHz
20km cable = 2.5 kHz
40km cable = 1.25 kHz
50km cable = 1.0 kHz

Note: With a one-way optical loss of up to 12.5 dB. Range is dependent upon quality of fiber, local environment, and the specific detection streams required.

Industry Certifications & Features

IEC60825-1, UL60950-1, CDRH-21CFR1040, FCC, RoHS certified

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