

Lifi Lighting

OPTICAL FIBER NET INTRUSION DETECTION SYSTEM



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Lighting

Perimeter Detection using "Optical Fiber"

- **PERIMETER DETECTION WITH STATE OF ART TECHNOLOGY WITH FIBER OPTICS**
 - ✓ Perimeter detection with fiber optic Net using military tactical fiber and OTDR(Optical Time Domain Reflectometry)
 - ✓ Using OTDR technology for detection, Fiber Hunter can detect intrusions with pin point accuracy as well as multi-detection
 - ✓ System reliability guaranteed using standard fiber optic protocols
- **HIGH RELIABLE DETECTION NOT EFFECTED BY OUTDOOR CLIMATE**
 - ✓ Fiber Hunter is not effected by lightening, vibrations, electromagnetic interferences, electrostatics and so on because Fiber hunter is using only fiber optic cables on perimeter area for detection.
 - ✓ Fiber hunter is designed to detect only the intrusion action so that climate changes like temperature, humidity, rain, snow and wind does not effect on detections
- **EASY SYSTEM EXPANSION FOR COMPLETE PERIMETER DETECTIONS**
 - ✓ Fiber Hunter controllers are 19" rack mountable system to be easily installed in existing system
 - ✓ Fiber hunter software provide TCP/IP protocols to be easily integrated into any other system like CCTV camera and supervisory system
- **PROVEN TECHNOLOGY FROM MILITARY**
 - ✓ Fiber Hunter had been installed in Republic of Korea Army, Air-forces, and Navy since the year of 2014



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System Performances

- **Detection rate :**
 - >95%
- **False alarm rate :**
 - < 5 times per ft per month
- **Detection point accuracy :**
 - within +/- 9.8ft (3 meters) in optical fiber NET detection
 - within 39ft (12 meters) in other fiber optic cable
- **Intrusion action detectable :**
 - Cutting/bending of optical fiber NET
 - Attempt of breaking/climbing the NET
 - Attempt of lifting optical cable connected to lower triggering fixtures for crawling underneath



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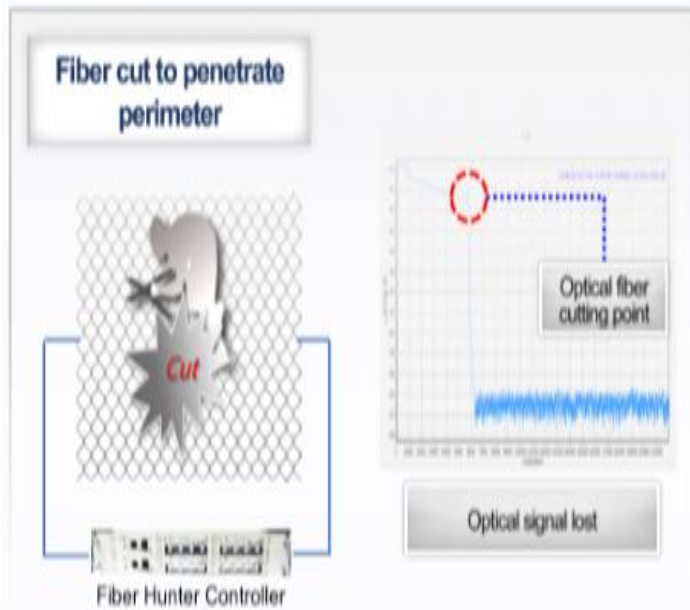
DETECTION OF INTRUSION ACTIVITY

- Cutting of optical fiber NET
- Bending of optical fiber NET
- Attempt of breaking the NET
- Attempt of climbing the NET
- Attempt of climbing with upper triggering fixtures
 - Horizontal pushing/pulling
 - Vertical pushing/pulling
- Attempt of lifting optical cable connected to lower triggering fixtures for crawling underneath

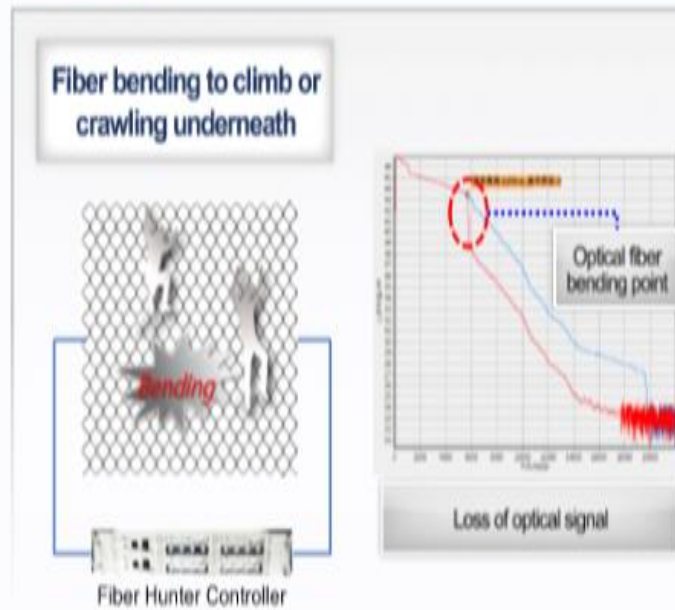


Detecting optical fiber attenuation changes with intrusion activities.

- Cutting



- Bending



Multi-detection of bending for multiple intrusion action.
Dual-detection of fiber cutting in one zone 328ft (100meters).

DETECTION PROCESS

(Operation Concept)

Intrusion Attempt

- Cut, Climb, Pulling, etc.



Alarm

- Location, Intrusion Method pop-up



Camera Point-out (automatic)

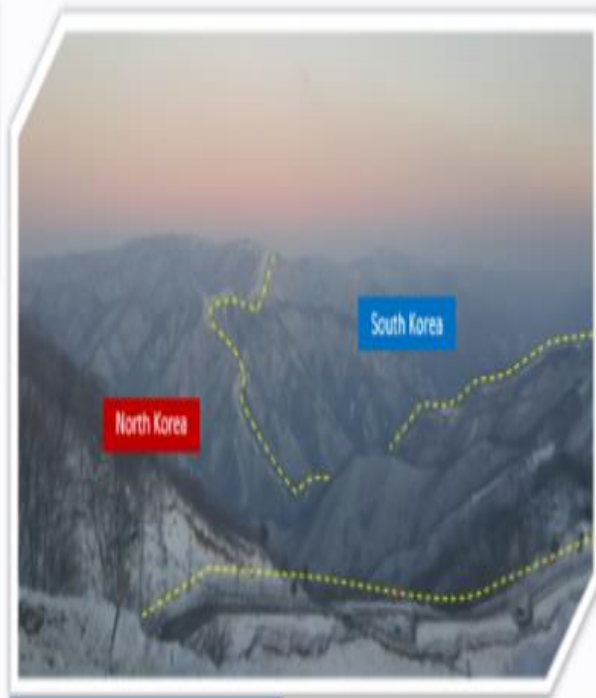


- Situation awareness
- Immediate counter-action

South boarder of DMZ, South Korea



South boarder of DMZ, South Korea



Three Air-force bases, South Korea



- Fiber Hunter Installation Location
- F-35 Lightning Stealth Fighter storage place



**ASSEMBLED
IN THE USA**

APPLICATION

Military Security	Public Safty
Border Lines, Military Bases	Prisons/Jails, Airport, Railroad
Ammunition Depot, Satellite Sites	Historic Sites
Industrial Security	Commercial Property Protection
Airport, Harbors	Plant Farm, Animal Farm
Oil/Water Pipelines	Villa housing or complex
Electrical Generating Stations	Utility Substations
Plants Security	Underwater/underground Protection
Water Plant, Chemical Plant	Underwater/Underground Perimeter detection
Nuclear Plant, Power Plant, Oil Refinery	Nuclear Generating Stations

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