



## ATLAS

### Distributed Acoustic Sensing Interrogator Unit

Luna Innovations' ATLAS distributed acoustic sensing (DAS) interrogator unit is the latest advancement in Luna's market-leading DAS interrogator unit (IU) line. The ATLAS IU measures quantitative phase and amplitude of the acoustic signal providing a high degree of sensitivity and measurement precision.

The ATLAS IU is characterized by long-coverage measurements (up to 190 km over 2 fibers) in a compact and low-power package. It has been specifically developed to address sensing applications which require the highest quality quantitative phase and amplitude output while providing levels of asset coverage that were previously only available with qualitative solutions. The ATLAS IU is the ideal solution for the most challenging permanent monitoring applications.

### RELATED PRODUCTS

#### SENSORS

PROTEUS-3 Engineered Sensor Cable
Non-armored sensor cable, up to 144 fibers
Armored sensor cable, up to 144 fibers
Other custom cables (application specific)

#### ACCESSORIES

Processing Server / Unit (PU)
Gigabit Ethernet Switch (GES)
Ethernet Controlled Power Supply (ECPS)
All-in-One Control Unit (CU)

#### SOFTWARE

OS 6
Light Acquisition
DxS
Single Live Acquisition

### KEY FEATURES & BENEFITS

- Quantitative phase and amplitude output
- Channel to channel coherence
- Extended sensitivity compared to class leading IU precedents
- Operating coverage to 190 km over 2 fibers

### EXTENSIONS

- Powerful and user-friendly application oriented software platform
- Abundant algorithms and detectors for effective condition monitoring
- Easy third-party interfacing
- Real-time data classification and management

### APPLICATION EXAMPLES

- Perimeter surveillance (personnel, animals, vehicles)
- Pipeline integrity management with Four Mode Leak Detection
- Asset condition monitoring (potential and actual damage)
- Transportation traffic monitoring (railways and roadways)