

Brochure

# VIAMI

## Seeker X Leakage System

Plant Integrity Solution for the Evolving HFC

Only the VIAMI Seeker X leakage solution has the agility and OFDM support to unlock full channel lineup flexibility while providing superior sensitivity and speed to detect leaks that other systems miss. Through integration with VIAMI XPERTrak, these leaks can be correlated with subscriber impact and PNM data and fixed faster.

### Seeker X Provides:

- **Agility** – With support for up to 4 concurrent monitoring frequencies including OFDM support, Seeker X affords operators complete flexibility in defining downstream channel lineups while providing true full-spectrum leakage detection.
- **Sensitivity and Speed** – The exclusive Seeker X tagging system enables a 6dB sensitivity gain vs competing systems with a faster acquisition time making drive out leakage more accurate. This speed and accuracy improve system integration into mapping systems and reduces time locating leaks during walk-out.
- **Highly Integrated** – By integrating with XPERTrak, VIAMI provides a complete tool for identifying, finding, and fixing plant performance issues by sending technicians to the right location
- **Compatibility** – The Seeker X system is compatible with the evolving DAA/RPHY distribution network as well as traditional HFC architectures. This enables a seamless DAA migration path while including continued access to best in class plant maintenance tools and FCC reporting. Backward compatibility with existing Seeker D and CT-4 tagging further smooths the transition to the new system.

### Benefits

- Fully frequency-agile 130–1220MHz
- Support for 4 concurrent tags improves leakage detection capability and flexibility
- Exclusive new digital chirp tag provides superior sensitivity and less false leaks
- Innovative antennas provide frequency agility while preserving sensitivity
- D3.1/OFDM and DAA/R-PHY ready
- XPERTrak integration for faster remote issue localization and field find and fix



## Seeker X Leakage Detector

- Frequency Agile from 130–1220MHz, easily adapts to existing channel lineups
- Support for leakage detection with existing OFDM downstream carriers
- Leak detection on up to four concurrent frequencies for improved coverage and sensitivity
- Speed and sensitivity to detect leaks that other systems simply can't



## CT-X – Channel Tagger

- Generates up to 4 tags in single 1RU unit
- Improved leakage sensitivity and false leak rejection with advanced Seeker X digital chirp tag – 1uV/m – 2000uV/m
- Web enabled for simplified administration



## Seeker X Advanced Antenna Systems

- Diverse high gain antennas to support leakage detection in low, mid, or high bands providing sensitivity and frequency agility
- Drive out roof mount antennas with precision combining
- Directional antenna for fast leak identification
- Adjustable/frequency-agile dipole antenna for faster walkout use
- Near field probe for close-proximity cable, connector, and cabinet verification



## Advanced Leakage Analysis Software System

- Automated leakage analysis with the exclusive VIAVI correlation algorithm to minimize duplicate reporting of plant leaks
- Integration with XPERTrak provides correlation with plant leakage and active system PNM monitoring to improve fix location accuracy
- Real time reporting improves leakage fix correlation and reduces truck rolls



## VIAVI MobileTech Integration

- Geotag leaks during walkout testing
- Simplify unit setup/config via StrataSync connectivity



## Virtual Tagging for DAA/Remote PHY Architectures

- DAA/Remote PHY nodes generate tags, no hub-based HW required
- Supported by all major DAA vendors

