

VIAVI

Seeker X

Digital Leakage Detector

Overview

The VIAVI Seeker X™ leakage detector provides the agility to monitor leakage anywhere in a channel lineup, with the sensitivity and speed to accurately detect leaks that other systems miss.

With support for up to 4 concurrent monitoring frequencies from 130-1220 MHz including OFDM and OUDP support, Seeker X affords operators complete flexibility in defining channel lineups, while providing true full-spectrum leakage detection.

Seeker X will detect tagged leaks and ignore untagged leaks, saving time from false alarms from signals not originating in your system, including overbuild situations. In addition to legacy Seeker D tag signals, Seeker X detects the revolutionary new digital chirp tag to provide unmatched leakage sensitivity and positive leak detection. OUDP burst detection enables continuity of leakage detection for high-split networks. This allows more thorough and accurate coverage of your plant in driveout testing and much more efficient find and fix processes for techs in the field.

Transition to distributed access architectures is simplified by virtualized tagging capabilities supported by most major R-PHY, R-MACPHY, and R-CCAP vendors. With this approach, no specialized hardware is required in the hub, and technicians use the same Seeker leakage detectors and work processes regardless of node type.

Key Features

- Full-spectrum agility from 130–1220 MHz
- Up to 4 concurrent detection frequencies, including DOCSIS3.1/OFDM carrier support
- D3.1/OFDM, high-split/OUUDP, and DAA/R-PHY ready
- Supports new Seeker X digitally tagged carriers for increased leakage sensitivity and improved positive leak detection
- Mobile Tech app connected, StrataSync enabled, XPERTrak integrated
- Cost-effective solution backward compatible with existing VIAVI systems



Seeker X detectors and mobile mounts can be dropped into systems currently using Seeker D's with no change to existing monitoring and find/fix processes. These new Seeker X units can benefit from the increased speed, sensitivity, and OFDM detection on their own, and can monitor two extra tagged frequencies if CT-4 taggers are swapped out for Seeker-D compatible CT-X units.

Regardless of the system architecture or channel lineup, Seeker X provides all the capabilities to find and fix leaks quickly, accurately, and effectively.

Package Name/Description	Package Part Number
Seeker-X Find and Fix kit w handheld antennas case and car charger	TRI-SKR-X-FIND-FIX-PKG
Seeker-X Mobile Find and Fix kit w/mobile mount vehicle/handheld antennas	TRI-SKR-X-DRIVE-PKG
Seeker-X Mobile Mapping kit w/MCAIII/GPS/MM vehicle antennas	TRI-SKR-X-DRIVE-ONLY-PKG
Seeker-X Mobile Mapping kit w/MCAIII/GPS/MM vehicle/handheld antennas	TRI-SKR-X-DRIVE-GPS-PKG
Seeker-X Mobile Find and Fix kit w/mini mobile charger handheld antennas	TRI-SKR-X-WALK-MMC1-PKG
Seeker-X Mobile Mapping kit w/mini mobile charger with arm, vehicle/handheld antennas	TRI-SKR-X-DRIVE-MMC1-PKG
Seeker-X Mobile Mapping Kit w/mini mobile charger with arm, X-Link option, vehicle/handheld antennas	TRI-SKR-X-DRIVE-MMCXLPKG

Description	Part #	Find/Fix	Drive Only	Drive/Fix	Drive GPS	Mini Find/Fix	Mini Drive/Fix	Mini GPS Drive/Fix
Seeker X Mobile Mount	TRI-LKG-SKR-X-VEH-MOUNT	—	■	■	■	—	—	—
Mini Mobile Charger and Mount	TRI-LKG-MMC-1	—	—	—	—	■	■	■
Seeker X Mobile Mount Wiring Kit	TRI-LKG-SKR-X-MM-WIRE-KIT	—	■	■	■	—	—	—
AC Travel Charger and USB Cable		■	■	■	■	■	■	■
Wideband VHF/UHF Antennas								
WFS-1 Low-band adjustable dipole 130 MHz – 450 MHz	TRI-LKG-ANT-WFS-1	■	—	■	■	■	■	■
WFS-2 High-frequency wideband directional antenna 450 MHz – 1220 MHz	TRI-LKG-ANT-WFS-2	■	—	■	■	■	■	■
WVM-2 magnetic base, wideband vehicle antenna (250–1220 MHz)	TRI-LKG-ANT-WVM-2	—	■	■	■	—	■	■
UHF Band Antennas								
AFS-7 Handheld YAGI antenna 580–640 MHz	TRI-LKG-ANT-AFS-7-YAGI	—	—	—	—	—	—	—
Rubber duck antenna, high band 580–690 MHz	TRI-LKG-ANT-DUCK-HI	—	—	—	—	—	—	—
AVM-4 magnetic base, colinear array antenna (612 MHz)	TRI-LKG-AVM-4	—	—	—	—	—	—	—

Description	Part #	Find/ Fix	Drive Only	Drive/ Fix	Drive GPS	Mini Find/ Fix	Mini Drive/ Fix	Mini GPS Drive/ Fix
VHF Band Antennas								
AVM-3 magnetic base, vertical quarter wave whip antenna (trimmed to 130-150 MHz)	TRI-LKG AVM-3	—	■	■	■	—	■	■
Rubber duck antenna, low band 127-136 MHz	TRI-LKG-ANT-DUCK-LOW	—	—	—	—	—	—	—
Near Field Probe								
Near Field Probe	TRI-LKG-NFP-1	■	—	■	■	■	■	■
Optional Seeker MCA III								
MCA III	TRI-LKG-SEEKER-MCA-WIFI	—	■	—	■	—	—	—
Seeker MCA III to Mobile Mount Power and Data Cable	TRI-LKG-SKR-MCA-PWR-CBL	—	■	—	■	—	—	—
2.4 and 5 GHz WiFi antenna	TRI-LKG-MCAIII-WIFI-ANT	—	■	—	■	—	—	—
Shielded ethernet cable (10 ft)	TRI-ACCY-CAT5-10FT-QUAD	—	■	—	■	—	—	—
X-Link Virtual GPS/Logging								
X-Link Factory SW Option	TRI-SKR-X-SWOPT-X-LINK	—	—	—	—	—	—	■
X-Link Field Upgrade License	TRI-SKR-X-UPG-X-LINK	—	—	—	—	—	—	—
Optional Accessories								
GPS receiver for Seeker MCA II and Seeker MCA III	TRI-LKG-GPS-MCA	—	■	—	■	—	—	—
CL-9 vehicle power adapter	TRI-ACCY-USBPWR-VEH-WCBL	■	—	—	—	—	—	—
Carrying bag with strap for meter and accessories	AC-BAG-METER-MEDIUM	■	—	■	■	■	■	■
Printed Quick Start Installation Checklist and Guide		■	—	■	■	■	■	■
Digital Channel Tagger								
CT-X Channel Tagger	TRI-LKG-CT-X							
CT-X Channel Tagger, -48VDC	TRI-LKG-CT-X-48VDC							
Available Software								
Seeker Setup Configuration Software	TRI-LKG-SW-SEEKER-PC							

Specifications

Seeker X	
Frequency Range	130–1220 MHz, adjustable via Seeker Setup Software and Mobile Tech App
Frequency Settings	10 user-adjustable operating frequencies, selectable on front panel Set using the configuration methods listed below
Receiver Sensitivity	-158 dBm
Calibrated Level Range	1–2000 μ V/m
Level Accuracy	\pm 2.0 dB
Display	Dual numerical readout of up to 2 detected leakage frequencies and carrier types within sensitivity range
Audible Tone	Tone is present if leakage amplitude exceeds squelch setting and digital tag is detected
	Pitch is proportional to strength of leak
Automatic Noise and Overbuild Discrimination	Internal circuitry discriminates between leaks and noise
	Overbuild discrimination provided by CT-X channel tagger installed in hub or head-end
Power	Internal battery with 3 hours of operation per charge OR Vehicle power of 12 VDC while in Mobile Mount
Configuration Methods	<ul style="list-style-type: none"> • StrataSync using Mobile Tech App via Bluetooth • USB connection from Leakage Detector to local PC running Seeker Setup Software • Ethernet or WiFi connection from Seeker MCA III to the LAW Server while the Leakage Detector is located in the Mobile Mount

Seeker MCA III (Optional)	
Standard Communications Interfaces	10/100 RJ45 connection to fleet management systems WiFi (802.11 a/b/g/n) to operator-controlled and configured hot-spot
Early Detection Notification (EDN)	Email notification of threshold exceeding leaks

VIAMI Care Support Plans

Increase your productivity for up to 5 years with optional VIAMI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region.

To find out which VIAMI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
 BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
 SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
 MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓



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