

AQUASCAN 760T

Automated Leak Locating Correlator

with True Sound Sensors

Ultra-compact and extremely easy to use – the AQUASCAN 760T utilizing the next generation of radio-controlled True Sound Sensors for unprecedented leak detection performance in all field conditions.





True Sound Sensors - outstanding performance

The AQUASCAN 760T is the first real-time correlator for water distribution networks using radio-controlled sensor filters settings. This unique feature allows the digital prefilters to adjust to the leak noise directly within the sensor. The result is a much-improved sensitivity, and dynamic range allowing AQUASCAN 760T users to find more leaks more reliably at greater distances even under challenging conditions such as plastic pipes, environmental noise, electrical hum and very quiet / small leaks.

The entirely newly developed True Sound Sensor (TSS) accelerometer has ten times increased leak noise sensitivity, correlation results are available at unprecedented speed and with 50mm diameter it is by far the smallest in the market. It features a USB-C port for fast charging and hydrophone connection as well as a dual mode up and downlink radio for controlling the sensor and to transmit the leak noise in real time.

New Android software easy and flexible in use

The versatile real time correlator AQUASCAN 760T is a jack-of-all-trades and your correlator of choice for all situations. It achieves strong and accurate results on all materials. GUTERMANN's new Android software provides the same simple and easy-to-navigate user interface as the top-range correlator model AQUASCAN TM3.

The industry leading sophisticated "Auto Filter" remains available in the processing display unit. It automatically selects the most relevant frequency bands of interest and amplifies them further to generate an accentuated peak. No more playing around with manual filters to try to identify possible leak noise sources. No more ambiguity about the existence of a leak. The AQUASCAN 760T does it, particularly on plastic pipes.

COMMLINK PRO with dual-mode radio

The AQUASCAN 760T builds on the proven design of the legendary AQUASCAN 620L real time correlator. The new COMMLINK PRO features the dual-mode radio: the well-known analogue radio transmits the real-time noise data with no latency, and the new downlink digital radio using LoRa modulation for outstanding distance allows to switch sensors on and off and to change the filters remotely in both True Sound Sensors.

The firmware can be upgraded via the USB-C charging port and will include in the next evolution the capability to read and configure ZONESCAN 850 and MULTISCAN 2 leak detection devices. Thus, only a single communication link unit will be needed for the operator to perform different leak detection scenarios from lift & shift over offline correlation to real-time correlation using True Sound Sensors.

Benefit from the latest software technology

The latest GUTERMANN correlator AQUASCAN 760T software builds on the most advanced correlation algorithms in the industry. The aforementioned "Auto Filter" removes ambiguity and provides quick and automatic results, even identifying multiple leaks in the same correlation.

The "Notch Filtering" function removes electrical mains noises from the sound spectrum, including higher harmonics.

The clean and clear correlation screen shows the coherence analysis, the cross-spectrum analysis and the two sensor spectra, all of which can easily be switched on or off on the display at any point in time. Correlation files can be saved and exported for safekeeping, subsequent analysis or re-correlation, or for second opinion by a third party or GUTERMANN experts.

As with all GUTERMANN products, the AQUASCAN 760T includes free firmware and software updates for the lifetime of the device.

System Configuration

- 1 Correlator receiver (COMMLINK PRO link)
- 1 Pair of stereo headphones
- 2 TSS Accelerometer sensor-transmitters (True Sound Sensors)
- 1 12V USB-C High power vehicle charger
- 1 110-240V AC USB-C High power charger
- 1 Operating manual
- 2 Years warranty

Optional Accessories Configuration

- 1 Android Tablet with 5G connectivity, GUTERMANN Software pre-installed
- 1 Pair of stainless-steel hydrophones

Technical Specifications

Pipe Material:	All common pipe materials; mixed material mode
Sound Velocity:	Integrated sound velocity table and on-site velocity check
App Filters:	Auto-filter and manual filters
TSS Filters:	Distribution network filters for metal and plastic pipes, hydrophone mode, notch filter
Frequency Analysis:	High-resolution Fast Fourier Transform (FFT), coherence analysis and cross-spectrum analysis
Frequency Response:	1-5000 Hz
Peak Suppression:	Unlimited, user selectable
Maximum Correlation:	Unlimited recording time per correlation
Memory Capacity:	Limited only by size of tablet memory card; optional post-processing of correlation with changed parameters
True Sound Sensors:	Ultra compact high sensitivity piezo-ceramic sensors with integrated dual mode radio for correlation signal and control radio
Sensitivity:	Better than $0.5 \mu\text{m/s}^2$ at 400Hz
Connection:	Multi-purpose USB-C socket for battery charging, firmware update, connecting hydrophones, ground microphone or hand-probe
Power:	Rechargeable 3.7V Lithium-polymer battery
Charge Life:	up to 8 hours
Dimensions:	COMMLINK PRO: w:205 x h:130 x d:35 mm, True Sound Sensors: Ø50x160 mm
Weight:	COMMLINK PRO: 0.6 kg, True Sound Sensor: 1 kg



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