

# AQUASCAN 610

'STREETWORKS ACT' FRIENDLY CORRELATOR

## Advanced Features:

- Ultra compact 'CORDLESS' correlator
- 'Streetworks Act' friendly sensors with built-in radio transmitter
- Built-in Bluetooth communication
- Highest precision on all pipe materials
- On-site velocity check
- Fully automatic, 'wizard assisted' operation
- Advanced Spectrum Analysis (ASA) optimizes filter setting
- Simultaneous multi-correlation filtering
- Designed to locate difficult leaks including uPVC and MDPE

## Ultra compact 'CORDLESS' correlator

Weighing only 1.2 kg, the AQUASCAN 610 is the smallest LNC, fitting into the pocket of any leak detection operative. A single, multi-task connector serves for battery charging, for attaching hydrophones, or for using the AQUASCOPE digital ground microphone.

## Large memory, with integrated Multi Media Card (MMC)

Greater memory management is available for up to 60 measurements, including all FFT information for off-site, post-correlation with altered parameters (pipe materials, diameters, distances etc). The MMC offers greater memory capacity for storage and transfer of the actual sound signals (detailed leak noise profiling).

## PC viewing software (included)

The AQUASCAN 610 LNC is also provided with Windows based PC software, for viewing, data storage, additional data entry and report printing. The software includes a user friendly function for e-mail of data.

## Converts into a Ground Microphone & Listening Stick

This option offers a unique new function of using the correlator processor as a listening system, when used together with the Gutermann AQUASCOPE hand-probe (for spot sounding on pipes or fittings) or Ground Microphone (for surface verification prior to excavation and repair). All related functions are clearly displayed on the AQ610 screen, including signal strength, minimum noise level, frequency analysis, filtering and memory.

## 'Streetworks Act' friendly radio/sensors

Equally compact transmitters with integrated accelerometers (no more cables!) allows working with closed hydrant and valve covers.

## Built-in Bluetooth communication

The AQUASCAN 610 offers Bluetooth communication, enabling the user to connect to a laptop, or to use a wireless Bluetooth headset!



## Fully automatic, 'wizard assisted' operation

'Professional' and 'Wizard Assisted' data entry option can be selected upon start-up or at any time during operation and offers different levels of sophistication depending upon the level of correlation experience of the user.

## Advanced Spectrum Analysis (ASA) - an innovation in leak noise spectrum analysis

The AQUASCAN 610 features fully automatic or user-selectable filter and parameter settings. FFT, coherence and signal analysis are displayed throughout operation, plus a continuous, real-time correlation quality indication. In addition, special attention has been given to a very sophisticated analysis of the leak noise, enabling adjustment of the filter settings to specific measurement requirements. By pressing the 'Filter' key, a full, on-screen frequency analysis commences, displaying the optimum filter settings and measurement quality.

## High performance and locating precision, also on uPVC and MDPE

The high measuring resolution of 16,000 points allows a very accurate pinpointing (locating precision better than 1 cm per 100m or 1" per 1,000 ft). The AQUASCAN 610 is designed to perform well on all pipe materials and to locate difficult leaks including on uPVC and MDPE.



Cordless transmitting sensors improve ease of use on site

## Large high resolution LCD display

The AQUASCAN 610 is equipped with a large, high resolution LCD display (120 x 90 mm, 4.7" x 3.5") with progressively increasing visibility in bright sunshine. A 'one-hit' backlight switch is also featured for dark or poor ambient light.

## Product Life Benefits

'Correlator State' lists all the technical details for assistance/diagnosis by phone or e-mail in the event of a problem. Software updates and upgrades enable the user to stay up-to-date with the latest firmware; **FREE OF CHARGE** for the life of the product. Another benefit of Gutermann's commitment to Customer Service Excellence.



## System Configuration:

- 1 Correlator with antenna & carry strap
- 2 Transmitting sensors with antenna and handle
- 1 12V vehicle charge cable with 3 connectors for correlator & sensors
- 1 100-240V AC adaptor
- 1 Rugged carry case
- 1 Windows based PC software
- 1 Operating Manual
- 2 Years manufacturers warranty

## Optional Accessories:

- Hydrophones
- AquaScope Ground Microphone
- AquaScope Hand-Probe



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## AQUASCAN 610 - Technical Specifications:

Pipe material:	All common pipe materials; mixed material mode
Sound velocity:	Sound velocity table and on-site velocity check
Correlation resolution:	16,000 points
Correlation accuracy:	1 cm for 100 m (1" for 1,000 ft)
Correlation method:	18-bit amplitude correlation
Display:	High resolution LCD-display with background illumination (12 x 9 cm: 4.7" x 3.6")
Filter:	Automatically selected, manually infinitely adjustable
Frequency analysis:	FFT, coherence and ASA (Advanced Spectrum Analysis) Simultaneous multi-correlation
Notch filter:	User selectable
Frequency response:	1-5000 Hz
Peak suppression:	Unlimited, user selectable
Memory capacity:	Up to 60 correlations with all measurements data to enable post-processing of correlation with changed parameters
Multimedia card:	MMC for additional data storage, and leak noise analysis within PC software
Sensors:	Ultra compact high sensitivity piezo-ceramic sensors with built- in radio transmitter and magnetic fixing
Sensitivity:	15 V/g
Output:	Bluetooth for headphone and data transfer to PC Multi purpose socket for battery charger, hydrophones, ground microphone and hand-probe
Power:	Correlator and sensors: Rechargeable 3.7 V Lithium polymer battery
Battery charging:	Vehicle or indoor
Battery charge life:	Correlator: up to 12 hours, Sensors: up to 8 hours
Dimensions:	Correlator: 220 x 140 x 35 (40)mm (8.6" x 5.5" x 1.4") Transmitting sensors: Ø 61 mm x 128 mm (Ø 2.4 x 5")
Weight:	Correlator: 1.2 kg (2.6 lb.) Transmitting sensors: 0.8 kg (1.8 lb)

