

AQUASCAN 610[®]

'STREETWORKS ACT' FRIENDLY CORRELATOR

The ultra compact 'flyweight' correlator, packed with powerful correlation technology

Advanced Features:

- *Ultra compact 'flyweight' 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*
- *High measurement resolution: 16,000 points*
- *Designed to locate difficult leaks including uPVC & MDPE*



Ultra compact 'flyweight' correlator

The AQUASCAN 610 correlator is the latest edition to the successful AQUASCAN correlator range from Gutermann. It weighs only 1.2 kg (2.6 lb.) and is one of the smallest LNC's on the market. A single multi-task connector serves for battery charging, for using Hydrophones, for attaching a sensor in the single channel version, or for using the ground microphone AQUASCOPE.

'Streetworks Act' friendly radio/sensors

Equally compact transmitters with integrated accelerometers (no more cables!) allow 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.

Single or dual channel option

The AQUASCAN 610 is available both as a single channel or a dual channel correlator. The single channel version has been made available for those working with a tighter budget, but not wishing to compromise on performance.



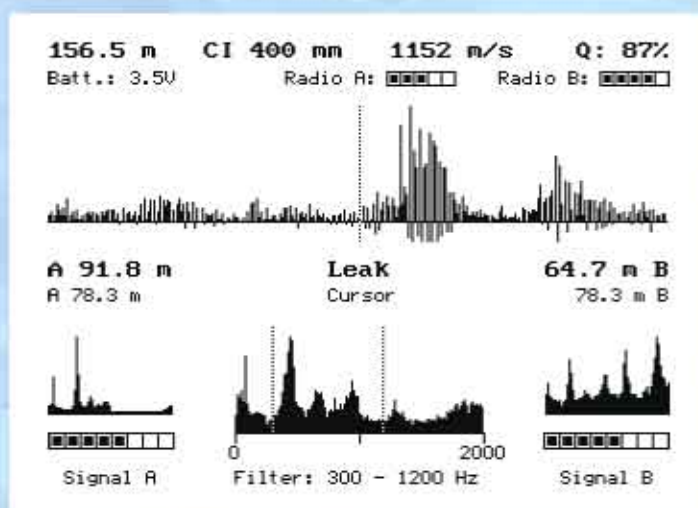
GUTERMANN MESSTECHNIK
Worldwide one step ahead

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 is 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 the specific measurement requirements. By pressing the 'Filter' key, a full, on-screen frequency analysis commences, displaying the optimum filter settings and measurement quality.

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 sun-shine. A 'one-hit' backlight switch is also featured for dark or poor ambient light.



Large memory plus optional MMC (Multi Media Card)
Greater memory management is available for 60 measurements, including all the FFT information for off-site, post re-correlation with altered parameters. Data can be transferred to the Windows based PC software (included) for viewing, data storage, additional data entry and report printing. The software also includes a user-friendly function for e-mail of data. An optional MMC offers greater memory capacity for storage and playback of the actual sound signals (leak noise listening).

AQUASCAN 610 also converts into a Ground Microphone and Listening Stick

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

Distributed by:

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

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 and carry strap
- 2 Transmitting sensors with antenna and handle (single channel: 1 x transmitting sensor plus 1 x plug-in sensor)
- 1 12 V vehicle charge cable with 3 connectors for correlator and sensors
- 1 100-240 V AC adapter
- 1 Correlator carry case
- 1 Operating manual
- 2 Years warranty

Optional Accessories

- 1 MMC Multimedia card for memory extension
- 2 Hydrophones (one pair) for use on non-metallic pipes
- 1 AQUASCOPE Ground microphone
- 1 AQUASCOPE Hand-probe

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:	20-bit amplitude correlation
Display:	High resolution LCD-display with background illumination (12 x 9 cm: 4.7" x 3.5")
Filter:	Automatically selected, manually infinitely adjustable
Frequency analysis:	FFT, coherence and ASA (Advanced spectrum analysis)
Notch filter:	User selectable
Frequency response:	1-5000 Hz
Peak suppression:	Unlimited, user selectable
Memory capacity:	Up to 60 correlations with all measurement data enabling post-processing of correlation with changed parameters
Multimedia card:	Optional MMC for additional data storage, e.g. real leak noise for audible replaying on PC or laptop
Sensors:	Ultra compact highly sensitive piezo-ceramic sensors with built-in radio transmitter and magnet fbdng
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.)

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