

# iQ100B

## Mobile Leak Detection by an Innovative Wireless Acoustic Sensor

Simply survey water leakages with  
a game changing Bluetooth device



The iQ100B is a new mobile leak detection device intended for a quick and simple leak survey. A robust design fits a listening stick and an attachment magnet, making surveys easy and versatile. Connects to the AQS cloud with an Android or iOS mobile application running on a phone or tablet.

### Key Features:

- Real-time streaming of the sample to the AQS cloud and to a mobile phone headset
- Operates with both mobile phone platforms (Android/iOS)
- Robust IP68 enclosure
- Rechargeable battery that allows up to 5 days of typical surveys
- 3 color RGB LED indicates states of operation
- No need to hold the mobile phone during operation.
- Allows survey without cellular coverage
- Built in self-test / built in self-calibration



## Preliminary Specification:

Audio / Recording performance	
Sampling Frequency	8KHz (configurable)
Dynamic Range	24bit
Noise cancelation	Internal EMI suppression
Audio streaming delay	<0.5 seconds
Wireless Connection	
Connection type	BLE 5.0 (2.4GHz)
Antenna	Internal chip antenna -2dBi
Transmit power	+10dBm
Interface	
Control buttons	Power, BLE pairing, Record
Daylight RGB LED	Blue – BLE Green – Power mode On/Off, Charging status RED – Recording
Identification	Unique ID for each device, blink & vibrate on request
Power Consumption	
Internal battery	Rechargeable Li-Ion 660mAh (IEC62133, UN38.3, UL 1642)
Battery protection circuit	Shortcut, Over-voltage (4.2V), Over-discharge (3.0V)
Operation time between recharge	112 hours
Full cycle recharging	<5 hours
Charging port	Magnetic pogo pin at 5V (using a standard USB type A mobile phone charger)
Rechargeable battery life	>3.5 years, may be replaced on device service
Power management	Auto sleep / Auto shutdown
Miscellaneous	
Firmware upgrade	Over BLE
Push buttons durability	Minimum 500K press
Attachment magnet interface	Supplied with 2 magnets: N12 and N19 grade
Operational temperature range	-4°F to+140°F
Dimensions	5" x 1.85"
Weight	0.5 lb
Certification	UL94-V0, CE, FCC, IP68

