



Major Incident - Public Communications

Long Range Acoustic Solution – VLS

BAPCO 2023

telent
talent with technology



Operational Requirement

- **Clear communications with the public during a Major Incident**

- Scenarios:

- Residents in a High Rise Tower e.g. Grenfell
- People isolated by floods, tides, grass fires etc
- Crowds nearby to high-risk premises
- National Resilience operations

- Communication solution constraints:

- Distance, including building attenuation
- Incident ambient noise
- One solution for all scenarios – easily deployable
- Multiple languages



On Aerial Platform



In-boat or on tripod



On tripod



As required



Up to 1500m



Clarity above noise



Portable and flexible



Pre-stored MP3 files



Alternative Approaches

Possible Approach	Suitability
Loudhailer	Poor clarity, short distance
Large screens	Unsuitable for all scenarios. Requires line of sight
Social Media, TV, radio	No guarantee of consistent use amongst affected public
Building services break-in	Unsuitable for all scenarios. No consistent building services
Drones with speakers	Ability to reach difficult locations. Low speaker power
Long Range Acoustics	Good distance and clarity. Several suppliers available. Deployable



Field Trials with Mersey FRS

Locations

- High Rise Block – Merseyside Fire exercise in Kirkby
- Ground Level – Merseyside Fire Training Centre

Equipment

- Systems from 2 suppliers evaluated

Feedback

- Clear sound reception in all areas
- Mounted on an Aerial Platform gives us another options
- This is another tool in the box we can use



Long Range Acoustic Solution (VLS)

- Rugged, compact, portable acoustic unit
- Speech intelligibility – 1000-1500m
- 142dB peak sound – safety lock against misuse
- Remote mic and pre-recorded (MP3) operation for multi-language support
- 6-24h battery operation



Solution Data Sheet



- **142 dB** sound level Peak
- AP-LOCK™ safety feature
- 60° x 40° dispersion / frequency response 280 hz to 10 Khz
- Proven military record, rugged construction
- Easy to use & scalable
- Light weight < 6,9 kg (without carry bag)
- Battery compartment 1 x Lithium
- Great coverage
- Excellent speech intelligibility
- Innovative ML-525R Microphone Remote control for detached operation (optional)
- Extended operation (6 to 24 h)
- Extended standby capability (60 to 120h)
- Designed for mobile applications
- Weather resistant – suitable for high humidity and extreme temperature fluctuations
- Marine weather resistant versions available
- Wireless technology preinstalled



Solution Data Sheet

