



# RESCUER HERO SENSE

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# HERO SENSE Modules

**ROBUST VISION :** Live camera capture and processing to remove certain weather effects such as rain and fog, light smoke and low light to provide first responders with detection of objects of interest.

**ENHANCED HEARING:** Capture and treatment of surrounding audio environment to foster certain sounds (voices) and cancel others (annoying sounds), and audio feedback for other modules (warnings).

**AUGMENTED OLFACTION:** Detection and monitoring of hazardous gases in the operational environment through a set of sensors, with an alert triggered if the tolerated health limits are exceeded.

**RADAR SENSING AND REMOTE TOUCHING:** Detection of obstacle through radar that can detect walls and moving objects with tactile feedback to warn the first responders.

**SIGNS OF LIFE DETECTION:** Detection of signs of life such as slight movement, breathing through thin walls (plaster or brick).

**WIRELESS FINDER:** Detection of personal electronic objects (cell phones, connected watches).

## HOLOLENS2 AR INTERFACE

- Provision of augmented reality interfaces and interactions to enhance the user's situational awareness, in its context of intervention.
- Acts as a visual hub providing augmented reality representations for the RESCUER partners' tools and sensors outputs.
- Provision of multimodal interactions to First Responders

## SMART HELMET AR INTERFACE

- Provision of an interface to increase the situational awareness of the user by enhancing vision in adverse/low light conditions and providing augmented reality information.

