

# FUNCTIONS

STENTOFON TECHNOLOGY



when communication is **critical**

## VOICE ACTIVITY DETECTION

Voice Activity Detection (VAD) is a feature available for the STENTOFON IP Station range. It enables the possibility to trigger alarms or events by monitoring changes in the external noise environment.

Voice Activity Detection samples the audio level from the microphone located in the IP Station. If the sampled amplitude is continuously above a trigger level for a set duration an alarm or an action can be triggered.

### PRACTICAL USAGE

Voice Activity Detection is a feature suitable for many different environments:

#### Trespassing

Alert security guards by monitoring the surrounding security fence.

#### Door entrance

Automatically play a welcome message.

#### Camera

Trigger and tilt a camera to a specific area by monitoring surrounding noise level.

### CONFIGURATION

By configuring some parameters in the IP-station web interface it is possible to set up the operation to exactly suit the environment in which it is located:

- Minimum amplitude (dBA) - Choose the trigger amplitude.
- Minimum duration of audio (ms) - Choose for how long the sampled amplitude must be above the "Trigger amplitude" before triggering an alarm or action.
- Alarm or action to activate - The station simulates pressing a so called Direct Access Key, the actual action to be taken is programmed in the AlphaCom audio server.
- VAD status - Choose whether to enable or disable VAD.

### SOFTWARE UPGRADE

Because the STENTOFON solution is purely software based, the Voice Activity Detection feature can be added to already installed IP-stations without any hardware modification whatsoever.

As the stations are connected to a data network, the Voice Activity Detection feature can be installed and configured remotely for widely dispersed locations.

