

## NIKOS [audio]<sup>2</sup>

Application  
Emergency Information &  
Communication System

### Main Features

- Wide area wireless announcement
- IP67 ruggedized design
- Integrated backup battery

### Applicable Products

All Hytera DMR products

### Applicable Technologies

DMR and analog radio  
Digital and analog PA systems  
GPIO compatible sensors and actors

**RADACOM**  
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## Application Description

### Emergency Information & Communication System NIKOS

In recent years, the demand for mobile security and communication technology has grown strongly. Against the background of various attacks and disasters at major events, RADACOM has developed the digital radio-based emergency information and communication system NIKOS. It facilitates public safety and simplifies the crowd management at city feasts, fairs, music festivals and other major events without the need for complex installations. Also the remote control and monitoring functions of NIKOS can help establish new utility and municipal services fast and at a low cost.

### Announcement & alarm unit NIKOS [audio]<sup>2</sup>

The announcement & alarm unit NIKOS [audio]<sup>2</sup> is part of our product line NIKOS. It enables central announcements using the existing audio systems (PA) of different stages, parade cars, information towers, bus stations, or similar independent venues within a radius of several kilometers without any additional cable laying. NIKOS [audio]<sup>2</sup> can be used for visitor guidance, as a paging system for evacuations, as an alarm system and for the remote control of third party devices.

Using NIKOS [audio]<sup>2</sup> is very easy. The system is set between the normal sound source (mixer, player, etc.) and the amplifier via XLR cables or connected to a digital mixer as an analog input with ducking function. The insertion of NIKOS [audio]<sup>2</sup> will not affect the normal audio signal in means of quality or sound level. The direct speaker output for active or passive horn loudspeakers allows NIKOS [audio]<sup>2</sup> to reach a large audience without the need for any external amplifiers. The battery buffered 12V power output can also feed external devices as sensors, signals, cameras or even an emergency light in case of power outage.

While using digital call groups, it is possible to address individual, multiple or all units and make specific announcements to the target areas. Every NIKOS [audio]<sup>2</sup> can be part of several predefined and even on-demand groups to allow maximum flexibility. In order to avoid misuse and maloperation several security mechanisms are integrated. Most parameters can be adjusted over the air or locally via a PC programming tool very easily.

The security center or mobile technicians are always informed about changes in the operating status of every NIKOS [audio]<sup>2</sup> unit, e.g. main current failed, unit switched off, or low battery voltage.



## Features

- Digital radio transmitter & receiver
- Encrypted voice connection
- Flexible call group assignment for local announcements
- Suitable for analogue and digital sound systems
- 2 analog audio inputs and outputs (stereo)
- Active or passive speaker output
- 12V power output
- 2 programmable GPIOs
- 90-240V power input, cable with standard connector
- Emergency battery for at least 2 hours standby or 30 min. active operation
- Tamper-resistant (actual operating status is reported to control units)
- IP67 ruggedized design

## Usage scenario

