

# mobifinder4-3G

Detection and localisation of active mobile phones

## General

**mobifinder4-3G** is a device for detecting phones with 3G (UMTS) standard.

**mobifinder4-3G** detects active mobile phones.

A mobile phone transmits RF signals in the following cases:

- Paging (dialing)
- Talking status
- Establishment of stand by status (input of PIN)
- Finish of stand by status
- Changing of the assigned base station
- Periodical updates during stand by mode. (e.g typically after 30 minutes . in a German net)



**mobifinder4-3G** detects a special 3G mode, the RF Power regulation.

For this reason the **mobifinder4-3G** alarms discontinuously in contrast to **mobifinder5 GSM/LTE**.

## Main application areas

- In prisons
- In military security areas
- In other security areas of concern



## Properties and functions

### Properties of **mobifinder4-3G**

- **mobifinder4-3G** is able to cover a wide range. Free field tests showed a maximum detection distance of 30 meters in 3G (UMTS1900) mode. The detection distance in buildings is restricted, especially if the walls consist of ferroconcrete. Typical values in this case are around 10 meters. With the service key the detection trigger level can be set in the range 12...90dB.
- **mobifinder4-3G** analyses the special signal structure of mobile phones. Thus the likelihood of an unwanted alarm generated by other electronic devices is minimal.
- **mobifinder4-3G** works with a black box recording function. Received signals are stored successively up to 200 alarms together with time-stamps. This makes it possible to protocol all mobile phone activities in order to analyze the information at a later date.

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## Main functions of *mobifinder4-3G*

- *mobifinder4-3G* detects only mobile phones working in 3G- (UMTS) mode.
- *mobifinder4-3G* should always be used together with *mobifinder5* for GSM900 & GSM1800, LTE830 & LTE1800 because mobile phones often switch between 3G and GSM/LTE modes.

## Use of *mobifinder4-3G*

- *mobifinder4-3G* is small and handy. Users may clip the mobifinder together with *mobifinder5* (GSM/LTE) to their clothes.
- A clip fastener has been designed so that it can be worn on the breast pocket or belt.
- Simple menu-driven parameters setting
- LED and LCD indicators are arranged so that signals can not go unnoticed.
- An acoustic signal with adjustable volume can, if required, be switched off.
- An in-built vibrator mechanism enables the alarm to be transmitted silently.
- A 6-digit identification number can be selected by users to identify series of measurements.
- *mobifinder4-3G* is battery-powered. Battery life is up to 120 hours (battery type AAA alkaline) using the „power on“ mode. Battery may be changed without loss of data. Battery capacity is shown in three levels.
- Battery life is up to 60 hours (Battery type AAA NiMH 1450mAh) using the „power on“ mode.
- *mobifinder4-3G* has a black box type of recording function. Received signals are successively stored together with a time-stamp. This makes it possible to protocol all mobile phone activities in order to analyse the information at a later date.

## Technical Data

Portable case equipment  
Weight: 80g (with batteries)  
Dimensions (mm): 61 x 52 x 20  
LC-Display  
3 buttons for setting and acknowledgement mode  
Loudspeaker for acoustic alarm  
Red LED for visual signalling  
Vibration mechanism for silent alarm