

# mobifinder4-3G/4G/5G

Detection and localisation of active cellular phones

## General

**mobifinder4-3G/4G/5G** is a device for detecting cellular phones with 3G, 4G and 5G standard DSS mode.

**mobifinder4-3G/4G/5G** detects active cellular phones.

A cellular 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 standby mode. (E.g. typically after 30 minutes. in a German net)



### **mobifinder4-3G/4G/5G**

In the frequency band b1/n1, 4G and 5G-dss are now detected.

### **mobifinder4-3G/4G/5G**

In addition to the new use for 5G, 3G is also detected in the b1 band

## Main application areas

- In prisons
- In military security areas
- In other security areas of concern
- For locating GPS trackers



## Properties and functions

### Properties of **mobifinder4-3G/4G/5G**

- **mobifinder4-3G/4G/5G** is able to cover a wide range. Free field tests showed a maximum detection distance of 50 meters in 4G or 5G mode. The detection distance in buildings is restricted, especially if the walls consist of ferroconcrete. Typical values in this case are around 15 meters. With the service key the detection trigger level can be set in the range 12...78dB.
- **mobifinder4-3G/4G/5G** analyses the special signal structure of cellular phones. Thus the likelihood of an unwanted alarm generated by other electronic devices is minimal.
- **mobifinder4-3G/4G/5G** 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 cellular phone activities in order to analyze the information at a later date.

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## Main functions of *mobifinder4-3G/4G/5G*

- *mobifinder4-3G/4G/5G* detects cellular phones working in 4G and 5G-DSS mode.
- *mobifinder4-3G/4G/5G* should always be used together with *mobifinder5* for GSM900 & GSM1800, LTE830&LTE1800 because cellular phones often switch between 5G and GSM/LTE modes.
- *mobifinder4-3G/4G/5G* also detects in the expiring 3G standard.

## Use of *mobifinder4-3G/4G/5G*

- *mobifinder4-3G/4G/5G* are 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 cannot 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/4G/5G* are 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/4G/5G* 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