

GSM196 Cellular Detector



FEATURES

- One button controls all major functions
- Detects both 2G & 3G mobile phones
- Advanced signal filtering and microprocessor-based signal analysis give fast, accurate detection
- Fast flashing LEDs indicate that a call or a Network signal is being detected, while slow flashes show previous alarms
- 2G & 3G alarms are shown separately
- LED bar-graph indicates the detected signal level
- Automatic display dimming with 20:1 range
- Cadenced vibration alert for covert handheld use

APPLICATIONS

- Detect the presence of unauthorised mobile phones
- For use by security personnel in Government & Military establishments
- For use by officers & wardens in prisons and detention centers
- For security companies who need to sweep premises for concealed surveillance devices
- De-bugging, TSCM (Technical Surveillance Counter Measures)
- Nuclear sites & Petrochemical facilities



The GSM196 monitors the (E) GSM900, GSM1800 and WCDMA/UMTS 2100(3G) bands. It is designed to detect the presence of unauthorised mobile phones and then help locate them.

In the Handheld mode, a 9-LED signal level display shows the strongest signal detected and helps to guide the operator to its source. This eases searching where several signals may be present. A cadenced vibrator (switchable) allows for covert use.

In the Static mode, alarms are latched so that the unit can be left unattended, for example overnight, allowing later analysis.

In both modes, the unit distinguishes between Network signals (text messages and registrations), GSM calls, and 3G calls, and indicates both current and past alarms separately for each type.

Two sensitivity ranges are provided. These are optimised for detection at a distance and location at closer ranges.

For situations where greater accuracy is required and / or specific monitoring is required in areas containing multiple phones, a specially designed directional antenna (SA918) can be used with the GSM196 & GSM196A.

The GSM196A is set-up to the USA, Mexican and South American networks. This device monitors the GSM850, GSM1900, and WCDMA2100 (3G) bands. ■



TECHNICAL SPECIFICATIONS

Detection

(E)GSM900:	880–915MHz
GSM1800:	1710–1785MHz
Detection threshold:	-73dBm typical
WCDMA2100:	1920–1980MHz
Detection threshold:	-95dBm typical
Antenna:	external multi-band (via SMA connector)
Detection:	signature analysis with band-selective amplitude discrimination
Detection time:	500ms typical, 1.4 sec maximum

Indicators

Level	9-LED bar-graph showing signal strength
Range: Low	-48dBm sensitivity; 3dB steps
High	-65dBm sensitivity; 3dB steps
	One is always on when the unit is active
Type	N – network signal detected, 2G or 3G
	2 – GSM (2G) signal detected
	3 – WCDMA (3G) signal detected
	All indicators have automatic dimming to match the ambient light levels – 20:1 dimming range

Controls

	Push-button turns unit on and off, sets range, and controls vibrator operation. Internal slide switch controls operating mode
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Power

	Internal: two AAA (LR03) cells, alkaline or NiMH
	External: 4.5–16V DC at 50mA peak via 1.3mm co-ax power jack (tip +ve: reverse protected)
	“Low batt” LED: trips at 2.1V (1.05V per cell)
	Static mode battery life: 180 hrs typ (1.2AH cells)
	Handheld mode battery life: 100 hrs typical, depending on use of vibrator and display. In the handheld mode only, the unit turns off automatically after 12 hours

Physical

	Physical Size: 105 x 58 x 19mm
	Weight: 90g with battery
	Case: ABS to UL94-HB; IP45

PRODUCT CODES

GSM196 Cellular Detector – Full Systems

3-299-995	GSM196 Cellular Detector can detect both 2G (GSM900/1800) and 3G (WCDMA / UMTS 2100) with cadenced vibration alert & latched alarm
3-299-993	GSM196A Cellular Detector can detect both 2G (GSM850/1900) and 3G (WCDMA / UMTS 2100) with cadenced vibration alert & latched alarm

GSM196/A Cellular Detector – Accessories

3-299-996	GSM196 SA918 Directional Antenna with handle & holder Quad-band
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The 196 and 196A only detects handset frequencies (uplink). In this way the unit does not react to nearby Base Station signals.

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