



# Semi Active GSM Intercept System

**DGS-320**

## Application

The DGS-320 Semi Active off-the-air GSM Monitoring System was designed to intercept voice, SMS and GPRS information from GSM 2G, 2.5G, 3G and 4G/LTE cellular networks using the latest COMINT technology.

The DGS-320 Semi Active GSM Intercept System supports standard GSM, 3G and 4G/LTE frequency bands including **850/900/1800/1900 MHz**. The standard configuration of the system comes with 1 Cell-Site Simulator which can **monitor up to 14 dual channels, and intercept 14 conversations simultaneously**.

DGS-320 is equipped with state-of-the-art onboard A5.1 decryptor and A5.2 decryption software to decrypt the intercepted communication in real time. System can decrypt A5.3 encryption algorithm and monitor HR-only cellular networks. Depending on the customer's mission requirements, DGS-320 GSM Interceptor can be configured to simultaneously intercept multiple GSM phones from multiple GSM service providers.

**This system is transparent and does not interfere on the target's cellular provider.** Many other suppliers "hi jack" the handset and will pay for the time they monitor the phone, and this could alert the target by reduced bills.

## Highlights

- Monitor 850/900/1800/1900 MHz GSM network in real-time
- A5.1 real-time deciphering, using onboard standalone A5/1 deciphering hardware
- Decrypt A5.3 encryption algorithm and Monitor HR-only cellular networks
- 4 separate modes of operation: Monitoring, IMSI catcher, Blocking, and ISDN catcher



DGS-320 Pro: 2 GSM cell-site simulators; monitors 2 cellular service providers and 28 dual channels simultaneously

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[info@usdgs.com](mailto:info@usdgs.com)



<https://usdgs.com>



7260 W. Azure Dr., Ste 140-2518  
Las Vegas, NV 89130, USA



## Features

- Can intercept Voice, SMS and protocol information from 2G, 2.5G, 3G and 4G/LTE networks
- Messages recording, including voice calls, SMS, USSD, DTMG, and network specific messages
- Monitor and decrypt A5.1/A5.2 enabled GSM communications
- Attach targets' mobile phones to DGS-320 base station, intercept targets' outgoing and incoming messages (voice, SMS, USSD) in real-time
- Display the approximate location of the target cell phones on Google map service
- Display the BTS location of cellular network providers on digital map
- Integrate with handheld GSM Direction Finder to find the target location in multi storied building
- Selective jamming capability, the operator of DGS-320 system can disable certain services of the suspect like Outgoing Call, Incoming Call, SMS, SS etc.
- Support additional tactical operations, such as ISDN catcher, GPS coordinate acquiring, voice calls and SMS blocking, and silent call for directional finder, etc.
- System can be managed remotely via LAN, WLAN or UMTS/LTE connection, using any number of terminals simultaneously

## Technical Specifications

|   |  |
|---|--|
| GSM bands supported                           | EGSM 900 / DCS 1800 and/or GSM 850 / PCS-1900        |
| Number of BTS available                       | 1 BTS (Standard); 2 BTS (Pro)                        |
| Number of providers, available for monitoring | 1 (Standard); 2 (Pro)                                |
| Types of recorded messages                    | Voice calls, SMS, network specific messages          |
| Supported voice codecs                        | Full Rate (FR), Half Rate (HR)                       |
| Number of simultaneously recorded voice calls | 14 (Standard); 28 (Pro)                              |
| Types of encryption supported                 | A5/0 (open), A5/ 1, A5/2, A5/3                       |
| BTS power amplifier                           | 10W  |
| Clone system power amplifier, internal        | 2W   |
| Number of antennas                            | 2 (Clone/BTS)  |
| Range of operation                            | Down channel – up to 500 m, Up channel – up to 500 m |

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