



Cellular & Satellite Passive Off-the-Air Lawful Interception Solutions

Satellite Cellular
COMINT System



GSM COMINT System

Safeguarding your Homeland

ELTA Systems Ltd

Stand-Off Cellular Interception and Monitoring



Passive Off-the-Air GSM Interception, Monitoring and Direction Finding EL/K-70770E

- Passive interception and monitoring of voice and SMS traffic, without interfering with the operation of the cellular network
- Passive DF and Geo-location capabilities
- Compatible with all cellular GSM frequency bands (900/1800 MHz) including E-GSM and American frequency bands (850/1900 MHz)
- Full coverage of multiple frequency cells
- Extended range and coverage
- A/5.2 deciphering in real time
- A/5.1 deciphering - near real time
- Smart filtering and target selection
- Transportable installation on different platforms
- Remote operation mode - operator station is located in a remote location
- Supports off-line exploitation and recording
- Compact, robust and portable



Airborne Passive GSM Interception & Monitoring EL/K-7066

- Passive, real-time, airborne cellular GSM interception
- Extended range and coverage
- Mitigation of cellular transmission interference
- Enhanced signal processing features designed to eliminate multi-path, fading, Doppler shift and interference
- Priority management mechanism facilitates efficient allocation of system resources to high value targets
- Integrated robust deciphering unit capable of extracting ciphering key [Kc] in low SNR and high BER conditions
- Modular installation - to enable adaptation to selected platform



Satellite Cellular Interception, Monitoring and Geo-location EL/K-7099CL

- Strategic COMINT System for Intercepting and monitoring GMR-1 PCS (Personal communication System) satellite global mobile phone traffic
- C-Band and L-Band Interception
- Automatic and optimal mapping between L-Band and C-Band channels to provide full duplex monitoring of every user session. This technology is covered by patents granted to ELTA
- On-board deciphering capability in real time
- Simultaneous monitoring of multiple calls
- Deployed with fixed C-Band sensor, multiple L-Band sensors and a central production and analysis system
- Production and logging of calls and CDRs by multiple operators using multiple work stations
- Modular system enables remote operation



Next Generation UMTS and WIMAX Interception

Looking at future markets for 3rd and 4th Generation mobile networks, ELTA is conducting research in:

- Monitoring and Geo-location
- MUD - Multi-User Detection
- Stand-off reception
- Interference cancellation
- Spatial Filtering
- DF - Direction Finding
- TDOA - Time Difference of Arrival measurement



Cellular & Satellite Passive Off-the-Air Interception, Monitoring and DF Solutions

In order to meet the demand for cellular and satellite communication monitoring by Law enforcement agencies specializing in intelligence data collection, counter intelligence, anti-terrorism and homeland security, ELTA offers solutions for tactical and strategic level deployment.

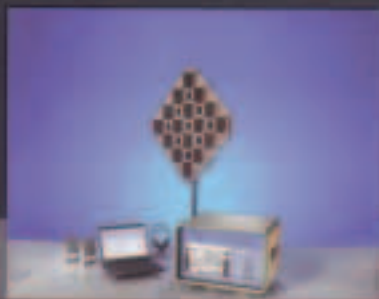
ELTA's passive interception systems provide tools for law enforcement and government agencies, to gather intelligence data on suspected criminals and terrorists. The systems are designed to cope with the challenges of advanced communications technologies and dense network environment, performing passive long-range COMINT missions.

ELTA offers system solutions for:

System Level/Application	Tactical Level Interception and Monitoring	Strategic Level Interception and Monitoring
<ul style="list-style-type: none">● Lawful Interception● Homeland Security● Intelligence Data Collection● Border Security	<ul style="list-style-type: none">● Passive cellular Interception & Monitoring, Direction Finding and Geo-location● UMTS - Research solutions for Interception & Monitoring and Geo-location● WIMAX - Research solutions for Interception & Monitoring and Geo-location	<ul style="list-style-type: none">● Satellite Cellular Interception, Monitoring and Geo-location● Ground Based Passive GSM+DF● Airborne Passive GSM● Integrated Solutions



Interception Command Post



EL/K-70770E

Passive Off-the-Air GSM Interception, Monitoring & DF



EL/K-7066

Airborne Passive GSM Interception & Monitoring



EL/K-7099CL

Satellite Cellular Interception, Monitoring & Geo-location



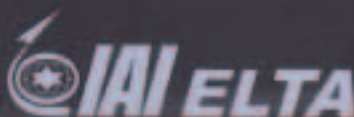
EL/K-7078

UMTS Interception



EL/K-7079

WiMAX Interception



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