

ARROW CDMA

Cellular Monitoring Systems IS-95 A/B/C/D CDMA2000 1X-RT 800/1900 MHz

ARROW cellular monitoring systems are U.S. export controlled and sold to U.S. Government and authorized foreign government agencies only.



System Description

ARROW CDMA Cellular Network Monitoring Systems intercept cellular telephone transmissions and provide passive real-time decryption, monitoring and recording of cellular telephone conversations. ARROW CDMA systems cover commercially available CDMA service protocols up to CDMA 2000 1X-RT variants.

Applications

ARROW intercepts cellular phone calls and transmissions which can be monitored in real-time, recorded and archived for future evaluation. It can target specified mobile phone numbers for all.

Features

- Passively captures and archives encrypted voice and SMS transmissions in real-time within the various CDMA protocols
- Receives and displays all CDMA Logic Channels
- Detects Pilot-PN
- Identifies active channel by number
- Automatically records both sides of all conversations within the specified range
- Displays broad range of subscriber's conversations data in real-time, including: LAC, Serving Cell ID, frequency channel number, cellular phone's transmitter power, distance between cellular phone and base stations
 - Cellular ID (MSISDN) and (ESN)
 - Frequency channel number
 - Power of cellular phone's transmitter
 - Distance between cellular phone and base station

Specifications

ARROW CDMA supports the following CDMA service protocols.

- IS-95 A/B/C/D
- CDMA 2000 1X-RT
- Frequency Operation Range: 800/1900 MHz
- Operates in:
 - fixed and mobile environments; and
 - in frequency-hopping environments

Operational Modes

ARROW systems have three operational modes:

- Search of active subscriber in the nearest zone (at a distance of 1 to 600 meters from the system, 'Search Mode')
- Random Search, 'Fixed Mode'
- Search for Subscriber of Interest, 'Fixed with Target List Mode'

Search: ARROW scans all frequency channels, searching for an active subscriber. Operators can record intercepted conversations and listen to them simultaneously. If the operator decides to cease monitoring of a particular conversation, the system automatically reverts to scanning the frequency channel, searching for another active subscriber.

Random Search: ARROW enters 'Fixed Mode' and selects channels according to maximum base station signal. The system monitors conversations intercepted in each of these particular channels, and the operator can record intercepted conversations and listen to them simultaneously switching over the channels. If the operator decides to cease monitoring a call, the system automatically enters standby mode and waits for the next conversation on that frequency channel.

Search for the Subscriber of Interest: ARROW enters 'Fixed Mode' and the system chooses channels according to maximum base station signal. Using a pre-loaded target list containing cellular features for subscribers of interest, the system monitors conversations intercepted for the targeted subscribers. The operator can record these intercepted conversations and listen to them simultaneously.

