

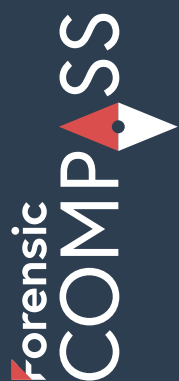


Technical Specification



FC-X is a 5G enabled, multi-network RF survey system.

FC-X operates with all the characteristics of a traditional fixed multi-network platform but with the ease and benefits of a flexible modular system for individual handheld surveys.





Multi-Network RF Survey Tool

Device

Portable Rugged theft proof backpack with a control unit and power supply for multiple handsets.

Cellular Bands

2G (GSM) (MHz): 850, 900, 1800, 1900

3G (UMTS) (MHz): 850, 900, 1900, 2100

4G (LTE) (MHz): B1(2100), B2(1900), B3(1800), B4(AWS), B5(850), B7(2600), B8(900), B12(700), B13(700), B17(700), B18(800), B19(800), B20(800), B25(1900), B26(850), B28(700), B32(1500), B66(AWS-3), B38(2600), B39(1900), B40(2300), B41(2500)

5G (NR) (MHz): 1(2100), N3(1800), N5(850), N7(2600), N8(900), N28(700), N40(2300), N77(3700), N78(3500)

Wi-Fi Bands

Supports: 802.11 a/b/g/n/ac/ax (Wi-Fi 6)

Bands Available: 2.4GHz and 5GHz

Features

Monitor Mode allows scanning to ensure network service is available prior to logging

Continuous Survey Mode enables a convenient start/stop approach to log survey data

Multi-Point Survey Mode allows the user to simply tag the survey data to correlate with defined survey points during an indoor survey.

Configuring alarms on Cell ID, BSSID and SSID quickly alerts the user to the presence of a target network identifier

Automatic File Hashing helps ensure the integrity of all logged data Backup and restore feature to ensure survey data is not lost

Technology, Band and Channel Lock enable the user to focus on service from a specific cell ID of interest

Central control unit for unified upload of files

Data Recorded

Date and Time

Location (GPS with number of satellites or multipoint tag)

Mode

Network Operator

Network Type (Technology)

2G: Serving Cell ID, Serving LAC, ARFCN, Serving RSSI, Neighbour Cell ID, Neighbour LAC, Neighbour RSSI, Timing Advance

3G: Serving Cell ID, Serving LAC, Serving PSC, UARFCN, Serving RSCP, Neighbour PSC

4G: ECI, eNode-B ID, Sector ID, PCI, TAC, EARFCN, RSRP, RSRQ, Neighbour EARFCN, Neighbour PCI, Neighbour RSRP, Neighbour RSRQ, Timing Advance

5G: Serving Cell ID, NR_ARFCN, NR_PCI, SS_RSRP, SS_RSRQ, Neighbour NR_ARFCN, Neighbour NR_PCI, Neighbour SS_RSRP, Neighbour SS_RSRQ

Wi-Fi: BSSID, SSID, Channel, RSSI, Security

Survey Mode

Dedicated (test call), Connected (test data connection), SMS and Idle

Output Data

Data is conveniently organised into categorised folders and stored as standard csv files ready for database upload, analysis and mapping



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