

Lima[®] Cell Monitor

Forensic Analytics are delighted to announce a strategic partnership with Group 2000 and in doing so become UK resellers of LIMA Cell Monitor. Group 2000 create intelligent security solutions for law enforcement, intelligence agencies, telecom providers and internet service providers.

LIMA is a multi-SIM RF survey solution capable of continuously measuring 2G, 3G, 4G, 5G (1 second sample rate). LIMA also passively scans 2.4 & 5.0GHz Wi-Fi SSIDs - all whilst logging GPS position against the radio readings.

LIMA allows locking – via an elegant GUI - to all UK Mobile Network Operators networks, all technologies, all bands (including LTE 800 (B20), 2300 (B40) and 2600 (B7)). E/U/ARFCN locking is also a standard feature.

Dial out function demonstrates connected test calls and a data heartbeat ping test achieves the same result for data connectivity. A frequency sweep on all channels reads information on the active frequencies producing a single pass snapshot of the RF environment in GSM, UMTS and LTE – typically returned within 90 seconds. The survey results are offloaded either by using a mobile data connection on a dedicated modem to a central server or by download from a USB port on the bulkhead for onward mapping and analysis.



LIMA RF survey solution which will start to ship in Q1 2021 comprises:

- 1 x LIMA Cell Monitor box – 2G, 3G, 4G, 5G and Wi-Fi capability
- 13 modems (12 programmable contract SIMs plus 1 Wi-Fi - configurable on placing order)
- Maintenance and 24/7 support
- Android tablet with companion app for LIMA interface (Bluetooth connection) plus ruggedised carry case
- External battery pack with 14 hour life and Uninterrupted Power Supply (UPS) feature allowing seamless transition from mains to battery.
- AC power supply unit
- DC 12V in-car power supply unit
- External GPS antenna
- Backpack

Total weight of entire kit 4.7 Kg

Contact our sales team to find out more

+44 800 158 3830
enquiries@forensicanalytics.co.uk

Forensic Analytics Ltd
Pixmore Centre, Pixmore Avenue,
Letchworth, Hertfordshire SG6 1JG

www.forensicanalytics.co.uk

GSM

Network	Cell ID	ARFCN	LAC	BSIC	C1	CBA	Power	Power
23410	39343	121	21582	30	20	0	-86.0	
23410	29903	105	21582	74	10	0	-96.0	
23410	30973	117	21582	75	6	0	-100.0	
23410	20003	108	21582	70	5	0	-101.0	
23410	19903	119	21582	76	5	0	-101.0	
23410	20264	123	21582	32	5	0	-101.0	
23410	12623	104	21582	5	4	0	-102.0	
23410	32327	116	2033	45	3	0	-103.0	
23415	42376	30	893	5	22	0	-83.0	
23415	28732	36	893	61	17	0	-88.0	
23415	24172	34	893	61	10	0	-95.0	
23415	11773	42	893	56	6	0	-99.0	
23415	58870	40	893	11	5	0	-100.0	
23415	4837	27	170	62	1	0	-104.0	
23415	42372	39	893	55	1	0	-104.0	
23430	1648	665	2529	3	12	0	-93.0	
23430	55661	668	2529	7	6	0	-99.0	
23430	60908	652	2529	37	5	0	-100.0	
23430	16641	660	2529	64	3	0	-102.0	
23430	21600	657	2529	3	2	0	-103.0	

UMTS

Network	Cell ID	UARFCN	LAC	PSC	ECNO	CBA	Power	Power
23410	27781	2963	21067	260	16.0	0	-96.0	
23410	22488	10637	21067	465	15.0	0	-98.0	
23410	60694	10637	21067	53	20.0	0	-101.0	
23410	27718	10661	21067	465	19.0	0	-103.0	
23410	62243	3050	21067	390	31.0	0	-110.0	
23415	63167	2938	898	457	15.0	0	-96.0	
23415	63112	10687	898	139	17.0	0	-101.0	
23415	63109	10712	898	139	17.0	0	-104.0	
23415	63837	10712	898	60	20.0	0	-105.0	
23420	6102	10564	1200	454	14.0	0	-97.0	
23420	6106	10588	1200	454	20.0	0	-104.0	
23420	6107	10612	1200	454	23.0	0	-107.0	
23430	16561	10761	1105	193	16.0	0	-104.0	

LTE

Network	Cell ID	EARFCN	TAC	PCI	RSSI	CBA	Power	Power
23410	133155462	1226	496	175	-78	0	-108.0	
23410	131282552	6400	496	416	-74	0	-110.0	
23410	131282452	6300	8263	416	-74	0	-112.0	
23415	131282452	6300	8263	416	-74	0	-112.0	
23430	5008142	6225	11050	216	-75	0	-104.0	
23430	4520193	1617	11054	85	-78	0	-108.0	

Additional Information

- Accurate and stable onboard GPS fix without the need for external GPS antenna on a foot survey using backpack.
- External GPS antenna (provided) recommended for vehicle mounted surveys.
- EE, O2, Vodafone and Three
- Approximately 3 minutes from powering up to taking readings.
- Built-in protection for power loss, allowing for safe disconnection and simple power down procedure.
- Survey data offload via cellular or Wi-Fi modem to backend of customer's choice at additional cost. (POA)

• Technology Locking:

2G (GSM)
900 & 1800MHz
3G (UMTS)
900 & 2100MHz

4G (LTE) - **all** including 800MHz (B20), 2300MHz (B40) and 2600MHz (B7)

5G (NR) – 3400Mhz - 3600Mhz (N78)

Scan function reveals detail down to BSIC, PSC and PCI level assisting the user to make determinations on co-located cells - as shown above.