

LS OBSERVER EMF – Technical Specifications



LS Observer is a comprehensive spectrum monitoring system designed for long term spectrum analysis and data gathering. The LS Observer EMF is specifically created for long term EMF measurement campaigns.

The unit is designed for permanent or semi –permanent installation to allow for EMF exposure to be monitored and stored over long periods. The data can be remotely interrogated at anytime as part of an LS observer network.

Remote Monitoring Network

Local Processing

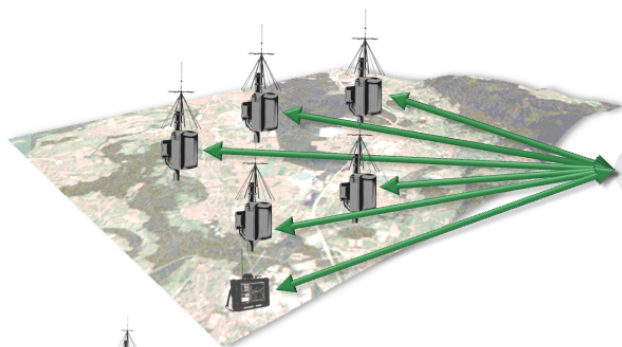
- RAW Data: 30 Days Rolling
- Compressed Data: 2 Years Rolling

Central Management Unit

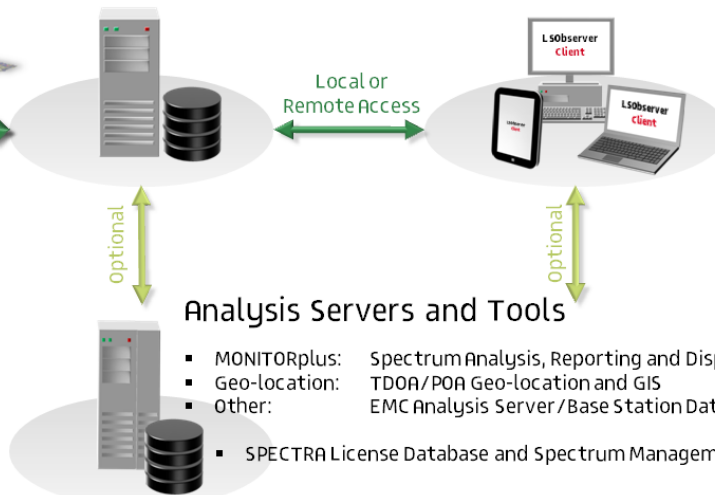
- Network Management
- Access Control
- Profile Management
- Storage of Previous Data Requests (can be Back up of RMU)

Client

- Spectrum Analysis Display



Remote Monitoring Unit
 Portable Monitoring Unit



Analysis Servers and Tools

- MONITORplus: Spectrum Analysis, Reporting and Display
- Geo-location: TDOR/POA Geo-location and GIS
- Other: EMC Analysis Server / Base Station Data Server
- SPECTRA License Database and Spectrum Management

Technical Specifications



Receiver

Frequency Coverage	9KHz to 6GHz
RBW	20MHz
Phase Noise @ 10KHz carrier spacing	< -70dBc/Hz
Phase Noise @ 300KHz carrier spacing	<- 100dBc/Hz
Maximum RF input level	+27dBm
Measurement range	-30dBm to +20dBm

Antenna

Frequency range	420MHz to 6GHz
Antenna type	E field
Sensor type	Three axis design with scanned axis
Dynamic range	0.14mV/m to 160 V/m
CW damage level	435 V/m

Other antenna configurations available upon request.

General

Weight	< 12 Kgs
Power	AC 90v to 160v
Frequency	50Hz/60Hz
Consumption	< 120VA
Protection	IP54
RAW data storage	30 Days
Statistical data storage	2 Years

For further information, please visit our website www.LStelcom.com.

Headquarters

LS telcom AG,
Germany

Im Gewerbegebiet 31-33
77839 Lichtenau
Germany

+49 (0) 7227 9535 600
+49 (0) 7227 9535 605

Subsidiaries

LS telcom Limited,
Canada

1 Antares Drive, Suite 510
Ottawa, ON, K2E 8C4
Canada

+1 (0) 613 228 4112
+1 (0) 613 228 4113

LS telcom SAS,
France

4 av Morane-Saulnier, Bât. A
78140 Vélizy
France

+33 (0) 1 3926 8585
+33 (0) 1 3926 8586

LS of South Africa Radio
Communications (Pty) LTD

131 Gelding Ave, Ruimsig,
Roodepoort, 1724 Johannesburg
South Africa

+27 (0) 11 958 5153
+27 (0) 86 569 1419

LS telcom Inc.,
USA

716 Melvin Avenue,
Annapolis, MD 21401
USA

+1 (0) 410 703 6088