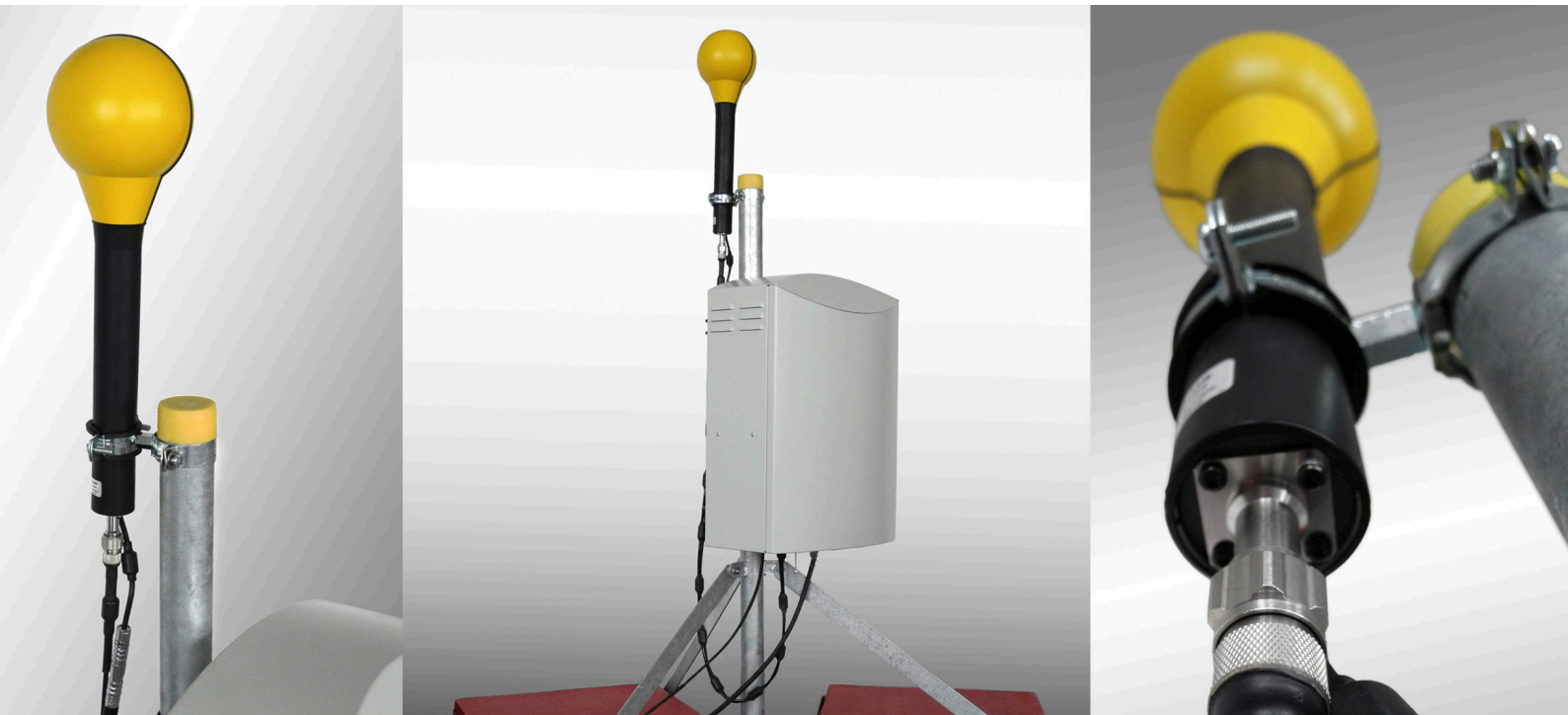


# LS OBSERVER EMF – Technical Specifications



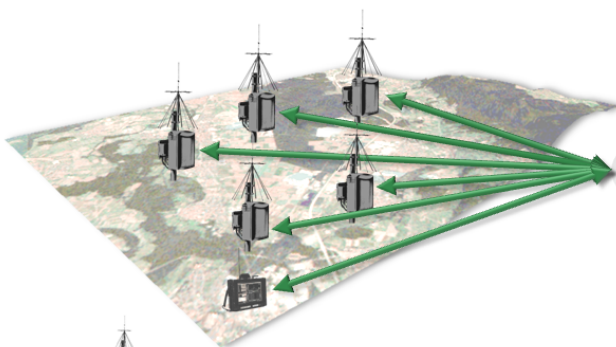
LS Observer is a comprehensive spectrum monitoring system designed for long term spectrum analysis and data gathering. The LS Observer EMF is specifically created for long term EMF measurement campaigns.

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



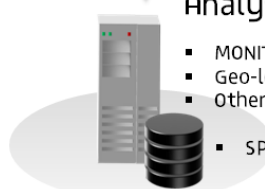
- Remote Monitoring Unit
- Portable Monitoring Unit

## Central Management Unit

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



Optional



## 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

## Client

- Spectrum Analysis Display



Optional

Local or Remote Access

# 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](http://www.LStelcom.com).

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