Also available as a true multi-receiver unit.
Enabling parallel monitoring, geolocation & analysis.

Global Spectrum Experience

Radio Monitoring

Transportable Monitoring

LS OBSERVER

Transportable Monitoring Unit (TMU) 312n

TECHNICAL DETAILS LS OBSERVER TMU 312n

RF Characteristics

RF Characteristics		
	Frequency range	100 kHz to 12.4 GHz
	Scanning speed	up to 140 MHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth	up to 240 kHz
	Frequency accuracy	1 ppm

Connectivity

Connectivity		
	RF antenna input	1x N-Type, opt. 4-to-1 antenna switch or diplexer
	External GPS antenna input	yes
	Wired networking	1x Gigabit-Ethernet
	Wireless networking	UMTS, LTE
	Wireless local networking	opt. WiFi (802.11 b/g/n)

Geolocation

Geolocation		
	Direction Finding (DF)	yes, with optional directional antenna
	Gain Ratio of Arrival (GROA+®)[1]	yes
	Time Difference of Arrival (TDoA)	no
	GPS receiver	yes
	GPS antenna input	1x SMA, antenna included

Storage

Storage		
	Storage time of raw data[2]	up to 30 days
	Storage time of statistic data[3]	up to 2 years

Environmental Parameters

Environmental Parameters		
	Ruggedized	yes
	Temperature range[4]	-30°C up to +60°C
	Power supply	10-32 VDC or 100-240 VAC, 50-60 Hz
	Power consumption	typ. 60 W with one receiver (90 W with second receiver) charged, max. 300 W while charging
	Battery runtime	typical 8 hours at 25°C with one receiver, typical 5 hours at 25°C with two receivers
	Weight[5]	system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg
	Dimensions in mm (W/H/D)	system unit: 600 x 700 x 750 mm system unit + covers: 600 x 700 x 900 mm system unit + covers + antennas: 600 x 1300 x 900 mm
	Humidity (non-condensing)	up to 100 %
	Protection[6]	IP 54 to IP 67
	Colour	white
	Software	LS OBSERVER RMS (Remote Monitoring Software)

AGB

[1] Including option GROA+®
[2] Using LS noise reduced raw data material (not IQ data)
[3] Using LS statistical processed raw data

[4] Including option pre-heating or with startup-temperature greater -20°C
[5] Including batteries (dependent on battery type)
[6] IP 54 with ventiladet covers (standard), IP 67 for storage with non ventilated covers and option cooling

For further information, please visit our website www.LStelcom.com or contact Info@LStelcom.com.