LS telcom
Smart Spectrum Solutions

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) 314w

TECHNICAL DETAILS LS OBSERVER TMU 314w

RF Characteristics		
RF Characteristics	**Frequency range**	9 kHz to 14.5 GHz
	Scanning speed	200 GHz/s @70 kHz RBW
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth	up to 40 MHz
	Sensitivity (DANL)	-165 dBm/Hz typ. average, depending on frequency
	Frequency accuracy	1 ppb (GPS disciplined)
	Tuning resolution	up to 1 Hz

Connectivity		
Connectivity	**RF antenna input**	2x N-Type, switchable
	External GPS antenna input	yes, 1x SMA
	Wired networking	1x Ethernet, RJ45
	Wireless networking	3G, 4G, 5G (EMEA only)
	Wireless local networking	opt. WiFi (802.11 b/g/n)

Features		
Features	**Software**[1]	LS OBSERVER CMS (Central Monitoring Software)
	Spectrum Monitoring	yes
	Direction Finding (DF)[2]	Automatic with optional AOA1xx/200 DF Antenna system
	TDoA Geolocation[3]	yes
	Demodulation	Analog audio for AM, FM, DSB, USB, LSB and CW

Storage		
Storage	**Storage time of raw data**[4]	up to 30 days
	Storage time of statistic data[5]	up to 2 years

Environmental Parameters		
Environmental Parameters	**Ruggedized**	yes
	Temperature range	-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[6]	system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg
	Dimensions in mm (W/H/D)	system unit: 600x700x750 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 95 %
	Protection[7]	IP 54 to IP 67
	Colour	white

GCA

[1] Requires desktop user client CMS_CL and RMU_LRC
[2] Requires software option RMU_DF
[3] Requires software option RMU_TDOA
[4] Depending on range and RBW, Excluding IQ data
[5] Overview and FCO data, depending on range and time interval
[6] Including batteries (dependent on battery type)
[7] 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.