LS telcom
Smart Spectrum Solutions

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

Global Spectrum Experience

Radio Monitoring

Portable Monitoring

LS OBSERVER
Protected Portable Unit (PPU) 314w

TECHNICAL DETAILS LS OBSERVER PPU 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	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 Manual with optional HHA-x antenna
	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 +55°C
	Power supply	12-16 VDC, 150 W AC adapter included
	Power consumption	typical 50 W, max. 85 W (while charging)
	Battery runtime[6]	typical 4 hours at 25°C
	Mass[7]	approximately 16 kg
	Dimensions in mm (W/H/D)	System unit 560 x 450 x 245
	Humidity (non-condensing)	up to 100 %
	Protection	IP 65
	Colour	black

GCA

[1] CMS_CL and RMU_LRC included, AddOns need to be oredered seperately
[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 internal
[6] Dependent on operation mode
[7] Including batteries

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