

**Also available as a true multi-receiver unit.**

Enabling parallel monitoring, geolocation & analysis.



Radio Monitoring

# Portable Monitoring

LS OBSERVER

Protected Portable Unit (PPU) 318w

# TECHNICAL DETAILS **LS OBSERVER PPU 318w**

RF Characteristics		
RF Characteristics	<b>Frequency range</b>	9 kHz to 18 GHz
	<b>Scanning speed</b>	160 GHz/s @10 kHz RBW
	<b>Max. input level</b>	+16 dBm, 0 VDC
	<b>Instantaneous bandwidth</b>	up to 40 MHz continuous up to 160 MHz in packages of up to 2s
	<b>Sensitivity (DANL)</b>	-155 dBm/Hz average, depending on frequency
	<b>Frequency accuracy</b>	0.5 ppb (GPS disciplined)
Connectivity		
Connectivity	<b>RF antenna input</b>	2x N Type, switchable
	<b>External GPS antenna input</b>	yes, 1x SMA
	<b>Wired networking</b>	1x Ethernet, RJ45
	<b>Wireless networking</b>	3G, 4G, 5G (EMEA only)
	<b>Wireless local networking</b>	WiFi (802.11 b/g/n)
Features		
Features	<b>Software<sup>1</sup></b>	LS OBSERVER CMS (Central Monitoring Software)
	<b>Spectrum Monitoring</b>	yes
	<b>Direction Finding (DF)<sup>2</sup></b>	yes, with optional directional antenna Or AOA1xx DF Antenna system
	<b>TDoA Geolocation<sup>3</sup></b>	yes
	<b>Demodulation</b>	Analog audio for AM, FM, DSB, USB, LSB and CW
Storage		
Storage	<b>Storage time of raw data<sup>4</sup></b>	up to 30 days
	<b>Storage time of statistic data<sup>5</sup></b>	up to 2 years
Environmental Parameters		
Environmental Parameters	<b>Ruggedized</b>	yes
	<b>Temperature range</b>	-30°C up to +55°C
	<b>Power supply</b>	12-16 VDC, 150 W AC adapter included
	<b>Power consumption</b>	typical 70 W, max. 115 W (while charging)
	<b>Battery runtime<sup>6</sup></b>	typical 3 hours at 25°C
	<b>Mass<sup>7</sup></b>	approximately 20 kg
	<b>Dimensions in mm (W/H/D)</b>	System unit 560 x 450 x 245
	<b>Humidity (non-condensing)</b>	up to 100 %
	<b>Protection</b>	IP 65
<b>Colour</b>	black	

<sup>1</sup> CMS\_CL and RMU\_LRC included, AddOns need to be ordered separately

<sup>2</sup> Requires software option RMU\_DF

<sup>3</sup> Requires software option RMU\_TDOA

<sup>4</sup> Depending on range and RBW, Excluding IQ data

<sup>5</sup> Overview and FCO data, depending on range and time interval

<sup>6</sup> Dependent on operation mode

<sup>7</sup> Including batteries

For further information, please visit our website [www.LStelcom.com](http://www.LStelcom.com) or contact [Info@LStelcom.com](mailto:Info@LStelcom.com).