

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

Enabling parallel monitoring, geolocation & analysis.



Radio Monitoring

# Portable Monitoring

LS OBSERVER

Protected Portable Unit (PPU) 306w



# TECHNICAL DETAILS **LS OBSERVER PPU 306w**

RF Characteristics		
RF Characteristics	Frequency range	9 kHz to 6 GHz
	Scanning speed	24 GHz/s @10 kHz RBW
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth <sup>1</sup>	up to 27 MHz
	Sensitivity (DANL)	-153 dBm/Hz average, depending on frequency
	Frequency accuracy	0.07 ppb (GPS disciplined)

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

Features		
Features	Software <sup>2</sup>	LS OBSERVER CMS (Central Monitoring Software)
	Spectrum Monitoring	yes
	Direction Finding (DF) <sup>3</sup>	Automatic with optional AOA1xx DF Antenna system Manual with optional HHA-x antenna
	TDoA Geolocation <sup>4</sup>	yes
	Demodulation	Analog audio for AM, FM, DSB, USB, LSB and CW

Storage		
Storage	Storage time of raw data <sup>5</sup>	up to 30 days
	Storage time of statistic data <sup>6</sup>	up to 2 years

Environmental Parameters		
Environmental Parameters	Ruggedized	yes
	Temperature range	-30°C up to +55°C
	Power supply	12-16 VDC, 120 W AC adapter included
	Power consumption	typical 45 W, max. 80 W (while charging)
	Battery runtime <sup>7</sup>	typical 4 hours at 25°C
	Mass <sup>8</sup>	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

<sup>1</sup> With AOA1xx option in DF mode: 20 MHz max

<sup>2</sup> CMS\_CL and RMU\_LRC included, AddOns need to be ordered separately

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

<sup>4</sup> Requires software option RMU\_TDOA

<sup>5</sup> Depending on range and RBW, Excluding IQ data

<sup>6</sup> Overview and FCO data, depending on range and time interval

<sup>7</sup> Dependent on operation mode

<sup>8</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).