

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



Radio Monitoring

## Fixed Monitoring

LS OBSERVER  
Fixed Monitoring Unit (FMU) 308wi



# TECHNICAL DETAILS **LS OBSERVER FMU 308wi**

RF Characteristics		
RF Characteristics	<b>Frequency range</b>	Monitoring 9 kHz to 8 GHz Direction Finding 10 MHz to 8 GHz
	<b>Scanning speed</b>	50 GHz/s @1.6 MHz RBW
	<b>Max. input level</b>	+16 dBm, 0 VDC
	<b>Instantaneous bandwidth</b>	up to 40 MHz
	<b>Sensitivity (DANL)</b>	-158 dBm/Hz typ. average, depending on frequency

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>	opt. WiFi (802.11 b/g/n)

Features		
Features	<b>Software</b> <sup>1</sup>	LS OBSERVER CMS (Central Monitoring Software)
	<b>Spectrum Monitoring</b>	yes
	<b>Direction Finding (DF)</b> <sup>2</sup>	yes, with AOA200 Automatic DF Antenna
	<b>TDoA Geolocation</b> <sup>3</sup>	yes
	<b>Demodulation</b>	Analog audio for AM, FM, DSB, USB LSB and CW

Storage		
Storage	<b>Storage time of raw data</b> <sup>4</sup>	up to 30 days
	<b>Storage time of statistic data</b> <sup>5</sup>	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>	10-32 VDC or 100-240 VAC 50-60 Hz with external PSU
	<b>Power consumption</b>	max. 115 W typ. 50 W
	<b>Weight</b>	26 kg
	<b>Dimensions in mm (W/H/D)</b>	370 x 522 x 210 370 x 522 x 280 with mast clamp
	<b>Humidity (non-condensing)</b>	up to 95 %
	<b>Protection</b>	IP 65
	<b>Colour</b>	white

<sup>1</sup> Requires desktop user client CMS\_CL and RMU\_LRC

<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

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