

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



Radio Monitoring



# Transportable Monitoring

LS OBSERVER

Transportable Monitoring Unit (TMU) 306w

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

RF Characteristics		
RF Characteristics	<b>Frequency range</b>	9 kHz to 6 GHz
	<b>Scanning speed</b>	24 GHz/s @10 kHz RBW
	<b>Max. input level</b>	+16 dBm, 0 VDC
	<b>Instantaneous bandwidth<sup>1</sup></b>	up to 27 MHz
	<b>Sensitivity (DANL)</b>	-153 dBm/Hz average, depending on frequency
	<b>Frequency accuracy</b>	0.07 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>	opt. WiFi (802.11 b/g/n)

Features		
Features	<b>Software<sup>2</sup></b>	LS OBSERVER CMS (Central Monitoring Software)
	<b>Spectrum Monitoring</b>	yes
	<b>Direction Finding (DF)<sup>3</sup></b>	Automatic with optional AOA1xx DF Antenna system
	<b>TDoA Geolocation<sup>4</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>5</sup></b>	up to 30 days
	<b>Storage time of statistic data<sup>6</sup></b>	up to 2 years

Environmental Parameters		
Environmental Parameters	<b>Ruggedized</b>	yes
	<b>Temperature range</b>	-30°C up to +60°C
	<b>Power supply</b>	10-32 VDC or 100-240 VAC, 50-60 Hz
	<b>Power consumption</b>	typ. 60 W with one receiver (90 W with second receiver) charged, max. 300 W while charging
	<b>Battery runtime</b>	typical 8 hours at 25°C with one receiver, typical 5 hours at 25°C with two receivers
	<b>Weight<sup>7</sup></b>	system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg
	<b>Dimensions in mm (W/H/D)</b>	system unit: 600x700x750 mm system unit + covers: 600 x 700 x 900 mm system unit + covers + antennas: 600 x 1300 x 900 mm
	<b>Humidity (non-condensing)</b>	up to 95 %
	<b>Protection<sup>8</sup></b>	IP 54 to IP 67
<b>Colour</b>	white	

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

<sup>2</sup> Requires desktop user client CMS\_CL and RMU\_LRC

<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> Including batteries (dependent on battery type)

<sup>8</sup> IP 54 with ventilated covers (standard),

IP 67 for storage with non-ventilated covers and option cooling

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