

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	Frequency range	9 kHz to 6 GHz
	Scanning speed	up to 24 GHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth¹	up to 27 MHz
	Frequency accuracy	0.01 ppm

Connectivity		
Connectivity	RF antenna input	1x N-Type, opt. 4-to-1 antenna switch or diplexer
	External GPS antenna input	yes
	Wired networking	1x Gigabit-Ethernet
	Wireless networking	UMTS, LTE
	Wireless local networking	opt. WiFi (802.11 b/g/n)

Geolocation		
Geolocation	Direction Finding (DF)	yes, with optional directional antenna or AoA 1xx DF antenna system
	Power Difference of Arrival (PDoA)²	yes
	Time Difference of Arrival (TDoA)³	yes
	GPS receiver	yes
	GPS antenna input	1x SMA, antenna included

Storage		
Storage	Storage time of raw data⁴	up to 30 days
	Storage time of statistic data⁵	up to 2 years

Environmental Parameters		
Environmental Parameters	Ruggedized	yes
	Temperature range⁶	-30°C up to +55°C
	Power supply	+15 VDC, 19 A 100-240 VAC 50 Hz
	Power consumption	typ. 60 W with one receiver (90 W with second receiver) charged, max. 300 W while charging
	Battery runtime	typical 8 hours at 25°C with one receiver, typical 5 hours at 25°C with two receivers
	Weight⁷	system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg
	Dimensions in mm (W/H/D)	system unit: 600 x 700 x 750 mm system unit + covers: 600 x 700 x 900 mm system unit + covers + antennas: 600 x 1300 x 900 mm
	Humidity (non-condensing)	up to 100 %
	Shock/Vibration	40 g shock spectrum / 5 Hz to 150 Hz (sinus), 10 Hz to 500 Hz (random)
	Protection⁸	IP 54 to IP 67
	Colour	white
Software	LS OBSERVER RMS (Remote Monitoring Software)	

¹ With AoA 1xx option in DF mode: 20 MHz max

² Including option PDoA

³ Including option TDoA

⁴ Using LS noise reduced raw data material (not IQ data)

⁵ Using LS statistical processed raw data

⁶ Including option pre-heating or with startup-temperature greater -20°C

⁷ Including batteries (dependent on battery type)

⁸ 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 or contact Info@LStelcom.com.