

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



Radio Monitoring

Transportable Monitoring

LS OBSERVER

Transportable Monitoring Unit (TMU) 318w



TECHNICAL DETAILS **LS OBSERVER TMU 318w**

RF Characteristics		
RF Characteristics	Frequency range	100 kHz to 18 GHz
	Scanning speed	up to 40 GHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth ¹	up to 40 MHz
	Frequency accuracy	GPS disciplined, without GPS 0.15 ppm
Connectivity		
Connectivity	RF antenna input	1x APC 3.5-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
	Gain Ratio of Arrival (GROA+ [®]) 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 data ⁴	up to 30 days
	Storage time of statistic data ⁵	up to 2 years
Environmental Parameters		
Environmental Parameters	Ruggedized	yes
	Temperature range ⁶	-30°C up to +60°C
	Power supply	10-32 VDC or 100-240 VAC, 50-60 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
	Weight ⁷	system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg
	Dimensions in mm (W/H/D)	system unit: 600x700x750 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 95 %
	Protection ⁸	IP 54 to IP 67
	Colour	white
Software	LS OBSERVER RMS (Remote Monitoring Software)	

¹ Higher bandwidth possible as customized upgrade/ with AoA 1xx option in DF mode: 20 MHz max

² Including option GROA+[®]

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.