



## **Airborne Monitoring**

LS OBSERVER Airborne Monitoring Unit (AMU) 106w

## **TECHNICAL DETAILS LS OBSERVER AMU 106w**

RF Characteristics			
ristics	Frequency range	20 MHz to 6 GHz	
Cte.	Max. input level	-152 dBm/+20 dBm, 0 VDC	
Chara	Instantaneous bandwith	up to 27 MHz	

Measu	Measurement Functionalities		
	<b>RF scanning</b> yes		
Measurement Functionalities	Direction Finding (DF)	yes (AoA calculation from 360° turn)	
	Geolocation	yes (triangulation of sequential DF measurements)	
	Demodulation	yes (FM, AM, DSB, USB, LSB, CW)	
	IQ recording	yes	

Antenna Characteristics			
tenna cteristics	Lower frequency range	20 MHz to 400 MHz (loop antenna)	
ntenn	Medium frequency range	400 MHz to 1300 MHz	
An	Higher frequency range	900 MHz to 6 GHz	

Operati	Operational Parameters of the UAS		
Operational Parameters of the UAS	Platform	COL-X8 multi-rotor with removable carbon arms	
	Propulsion	electrical, 4x2 motors 300 kV	
	Propeller size	18" x 5.5" (standard configuration)	
	Max. flight height <sup>1</sup>	500 m, 80 m with tether kit	

Powering of the UAS		Battery version	Tether supply
Powering of the UAS	Typ. flight time	up to 15 minutes with 4 x 4500 mAh batteries	unlimited <sup>2</sup>
	Power input		AC mains 120-240 VAC
	Power monitoring	via telemetry	power monitoring with acoustic alarm, automatic short term LiPo Backup

Communication		Battery version	Tether supply
Communication	Aircraft control frequency	2,4 GHz	
	Aircraft telemetry frequency <sup>3</sup>	433 MHz / 868 MHz / 900 MHz	
	Live measurement data	via WiFi	via CAT-6 Ethernet cable

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Enviro	Environmental Parameters				
_	Temperature range	+5° C up to +45° C			
Environmental Parameters	Weight	UAS: 8,5 kg incl. payload			
ronn ame		Tether ground power converter: 25 kg			
Envii	Dimension in mm (W/H/D)	UAS 1004 x 425 x 1004 mm			
		Tether ground power converter 560 x 455 x 265 mm			

 $<sup>^{\</sup>scriptscriptstyle 1}\,$  depending on weather conditions and payload

For further information, please visit our website www.LStelcom.com or contact Info@LStelcom.com.

 $<sup>^{\,2}\,</sup>$  maximum flight time limited by other factors than powering

<sup>&</sup>lt;sup>3</sup> depending on country regulation