
PORTABLE HIGH-PERFORMANCE

4X4 MIMO TRACKING ANTENNA SYSTEM

RELIABLE LONG-RANGE COMMUNICATION



OCTOPUS
ISR SYSTEMS



TRACKING ANTENNA FEATURES:



**HIGH THROUGHPUT COMMUNICATION
AT OVER 100 KM RANGE**



**MANNED AND UNMANNED AIRCRAFT
APPLICATIONS**



**SILVUS TACTICAL RADIO
COMPATIBILITY**



**AUTOMATIC AZIMUTH CALIBRATION
AND 360° ROTATION**



**SPATIAL MULTIPLEXING, SPACE-TIME
CODING AND TX/RX BEAMFORMING**



**RUGGEDIZED AND DURABLE
ENVIRONMENTALLY SEALED DESIGN**



**DES56, AES256
ENCRYPTION**



**PORTABLE AND LIGHTWEIGHT
STRUCTURE**



**AUTOMATIC TRACKING
ALGORITHM**



**DATA RATE UP TO
85 MBPS**

4X4 MIMO TRACKING ANTENNA SYSTEM



RUGGEDIZED ENVIRONMENTALLY SEALED HEAVY DUTY PAN-TILT UNIT



REMOTE DATA TERMINAL / VOICE OVER IP



EASY TRANSPORTATION - PORTABLE AND LIGHTWEIGHT DESIGN

OCTOPUS ISR SYSTEMS

Europe

Jaunbridagi-1, Marupe, Latvia, LV-2167
Phone: +371-26321533
E-mail: sales@octopus-isr.com

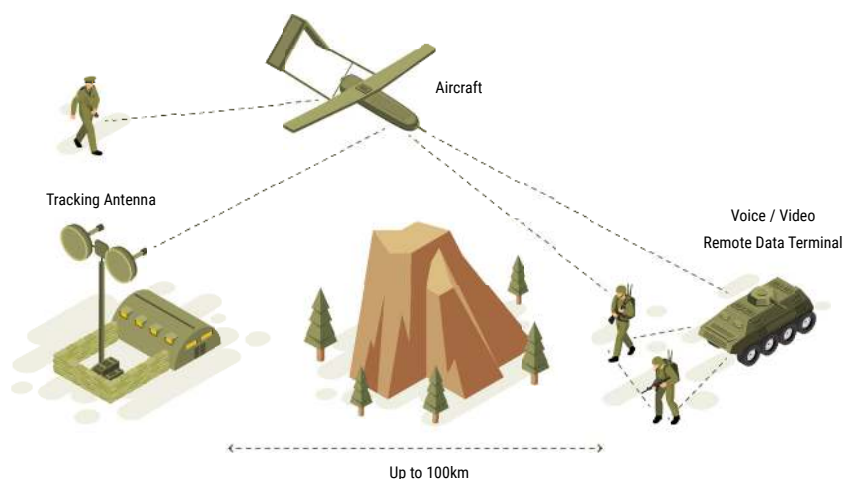
North & South America

2777 NW Lolo Dr, Suite 130, Bend,
Oregon 97703, USA
Phone: +1-541-678-0515
E-mail: sales@octopus-isr.com

www.octopus-isr.com

SYSTEM SPECIFICATIONS		
Encryption	DES56 (Standard), AES256 (Optional)	
Data rate	Up to 85 Mbps	
Mimo techniques	Spatial Multiplexing, Space-Time Coding, TX/RX Beamforming	
Output power	Antenna	1mW - 8W variable (up to 32W effective w/TX Beamforming)
	Datalink	1mW - 4W variable (up to 8W effective w/TX Beamforming)
Voice over IP	G.711/G.722/Opus Codecs	
Sensitivity	-102dBm @ 5MHz BW	
Frequency bands	Bands from 400MHz to 6GHz available	
Serial interface	RS 232	
Ethernet	10/100 BaseT, IEEE 802.3	
POWER REQUIREMENTS		
Input voltage	Antenna	24 VDC
	Datalink	10-28 VDC
Input current	Antenna	6A continuous, 10A peak
	Datalink	0.5 A
ANTENNA MECHANICAL SPECIFICATIONS		
Positioner mounting	Tripod and other options possible	
Azimuth rotation	360° continuous	
Azimuth calibration	Automatic	
Elevation rotation	-3/+77°	
Height above ground with mast	3.35m	
Tracking antenna head weight	25 kg*	
Tracking antenna weight (with tripod)	43 kg*	
	*depending on dish size and selected band	
ENVIRONMENTAL		
Temperature	-20°C to +55°C	
Humidity	Up to 95%	
Environmental	IP67	

HOW IT WORKS?



Equipment described here in is subject to export regulations and may require a license prior to export. Imagery for illustration purposes only. Specifications are subject to change without notice. @2020 Octopus ISR Systems. All rights reserved. 08/2020