



 **SOTM**
MARITIME SATELLITE COMMUNICATION ANTENNA
IP120



IP120 is a 1.2m Ku-band maritime VSAT antenna system. IP120 adopts high accuracy inertial navigation and cone scan peak tracking integration technology, which makes the antenna beam point at the satellite in the rough sea conditions or in the satellite zenith state.

- ▶ High accuracy GPS/INS integrated attitude azimuth measurement technology.
- ▶ 3-axis stabilization, 5-axis tracking, gear drive.
- ▶ ODU takes IP67 design, dehumidification device.
- ▶ Built-in lightning protection electric design.




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IP120

SYSTEM DIAGRAM



DATA SHEET

IP 3-axis
-Ku Band



Type	IP120	IP180
Stabilized Type	3-axis stabilization, 4-axis tracking, gear drive	
Reflector Size	120cm	180cm
Dimension (diameter×height)	175 ×169cm	280 ×282cm
Antenna Weight	146kg	350kg
Frequency Range	Rx: 10.7-12.75GHz ; Tx: 13.75-14.5GHz	
Antenna Type	Ring focus back feed	
Antenna Gain	Rx: 40.6dBi (11.725GHz) Tx: 42.2dBi (14.125GHz)	Rx: 45dBi (11.725GHz) Tx: 46.8dBi (14.125GHz)
Cross-polarization Isolation	> 35dB	
Side-lobe	Conform to ITU-R S.465-6	
Signal Polarization	Linear	
Tracking Accuracy	0.2° RMS	
Carrier Motion Range	Roll: -30° ~30° , 5s cycle; Pitch: -30° ~30° , 5s cycle; Yaw: 40° /s	
Angular Velocity	Azimuth: 100° /s; Elevation: 100° /s; Cross:100° /s; Polarization: 100° /s	
Antenna Motion Range	Azimuth: 360° continuous rotation; Elevation: -5° ~135° ; Cross: -30° ~30° ; Polarization: -90° ~90°	
Initial Operating Time	≤120s	
Recovery Time	Short time defilade (< 60s) : < 3s; Long time defilade (≥60s) : < 10s	
INS	Built-in, work without Gyro input	
Power Input	AC220V 50Hz Typ.200W(not include BUC)	
Operating Temperature Range	-40℃~65℃	

ALPHA SATCOM Inc.
 The Oldest New Antenna Company On The Planet
www.alpha-satcom.com
 3108 Fairway Oaks Lane, Longview, Texas 75605 USA
 Tel: +1-903-235-3087, +852-9506-7208

