

## MARITIME SATELLITE COMMUNICATION ANTENNA PM80



Probecom PKA80 Ka-band Satellite Communication Antenna is designed to accommodate the current and future needs of the maritime market.

It works on viasat-1 network for US and Tooway network for Europe.

With the superior performance, PKA80 is an innovation and excellence maritime VSAT antenna system.

### **Features:**

- \*High accuracy GPS/INS integrated attitude azimuth measurement technology
- \*2-axis stabilization ; 3-axis tracking , gear drive
- \*ODU takes IP67 design , dehumidification device
- \*Built-in lightning protection electric design



Maritime On The Move Antenna		
Model No.	PM80	
Stabilization Type	2-axis stabilization, 3-axis tracking, gear drive	
Reflector size	80cm	
Dimension (diameter×height)	105×100cm	
Antenna Weight	65kg	
Operation Frequency	Rx:10.7~12.75GHz ; Tx:13.75~14.5GHz	
Antenna Type	Ring focus back feed	
Antenna Gain	Rx:37.8dBi (12.5GHz) Tx:39dBi (14.25GHz)	
Cross-polarization Isolation	>35dB	
Side-lobe Envelope	ITU-PS , 465-6 (40WBUC 2M bandwidth)	
Signal Polarization	Linear	
Tracking Accuracy	0.2° RMSE	
Carrier Motion Range	Roll:-30°~+30°, 5s cycle ; pitch: -30°~+30°, 5s cycle; Yaw: 30°/s	
Angular Velocity	Azimuth: 100°/s ; Elevation: 100°/s ; Cross:100°/s; Polarization:100°/s	
Travel Range	Azimuth: 360° continuous rotation; Elevation: -5°~90°; Polarization:-90°~+90°	Azimuth: 360° continuous rotation; Elevation: -5°~135°; Cross:-30°~30°; Polarization:-90°~+90°
Initial Acquisition	≤120s	

Re-acquisition	<3 seconds for <60s blockage; <10 seconds for ≥60s blockage;
INS	Built-in, work without compass
Power Input	AC220V, 50Hz
Temperature	-40℃~65℃