

Intellian® i6PE

Perfect Reception in Harsh Conditions with the Extended Elevation Range



Intellian® i6PE is specifically designed for vessels traveling to low and high latitude regions. Compared to other wide elevation antenna systems, the i6PE has a bigger 24 inch dish and wider elevation range and includes the auto skew angle control system. All of the benefits that the i6PE provides are included in the standard all-in-one package.

- **Extended Elevation Range from -15 to +90 degrees**
- **Specially Designed Pedestal for Polar Regions, such as Scandinavia**
- **Auto Skew Angle Control System for Linear Polarization**
- **User Friendly Control Unit and PC Control Program**



Unmatched Performance

24 inch dish diameter with nationwide coverage for North & South America, Europe and the regional service around the globe.

All-in-One System

Auto Skew Angle Control System, GPS and extended elevation range provided as a default option allow the i6PE to have enhanced signal receptions in weak satellite signal coverage areas and have accuracy and easy operation wherever the vessel sails.

Faster Signal Acquisition

Intellian's exclusive Wide Range Search (WRS) algorithm allows the antenna to search, find and lock on to a signal with incredible speed and accuracy.

A Firm Hold on the Signal

Intellian's exclusive Dynamic Beam Tilting (DBT) uses a high performance, constantly adjusting sub-reflector which allows the antenna to remain the strongest signal at all times while the vessel is cruising at high speed.

Simple & Easy Installation

With a single cable to connect the antenna and the ACU, Intellian i6PE systems are quick and easy to install. Our advanced ACU is designed to require minimum setup so you can begin to enjoy TV programs aboard your boat in no time.

Tune in Your Favorite HDTV Channels

Intellian's i6PE provides HD channels from the Ku-band. The HD module is built-in to the Antenna Control Unit of the Intellian i6PE for seamless integration and easy installation.

Built-in GPS

Intellian i6PE includes a built-in GPS for easier operation and faster signal acquisition.

User-friendly Operation

Antenna Control Unit (ACU), which is supplied as a default package, gives you the user-friendly operation for various function.



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Key Features

Extended Elevation Angle Range

Extended Elevation Range (-15°~ 90°) and special pedestal designed for regions that require extremely low or high antenna angles such as Scandinavia and the Equatorial regions

Automatic Polarization (Skew-angle) Control

Automatic Skew Angle Control System (-90°~ +90°) for Linear Horizontal/ Vertical Polarization.

Enhanced Antenna

Highly efficient 24 inch parabolic antenna enables 47dBW of minimum EIRP.

Wide Range Search (WRS) Algorithm

Competitor methods search for the narrow-bandwidth of the main lobe. However Intellian's exclusive WRS searches for the wide range of side lobes and jumps up to the main lobe, providing faster satellite acquisition.

Dynamic Beam Tilting (DBT) Technology

A high-speed sub-reflector rotates off axis, checking signal strength at 50 times per second and compensating the tracking direction. Less movement of the main-reflector means less noise and extends the product life.

Fully Automated Digital Video Broadcasting (DVB) Identification

DVB Decoder with CPLD enables high speed identification.

Built-in GPS and NMEA 0183 Interface Port

The i6PE includes a built-in GPS inside of the Antenna Unit for faster signal acquisition. The ship's GPS can also be connected through the NMEA 0183 port on the rear panel of the ACU.

HDTV-ready Antenna Control Unit

The i6PE's ACU includes Ku-band High Definition decoding module as its default option. The user can enjoy High Definition TV programming from Ku-band satellites

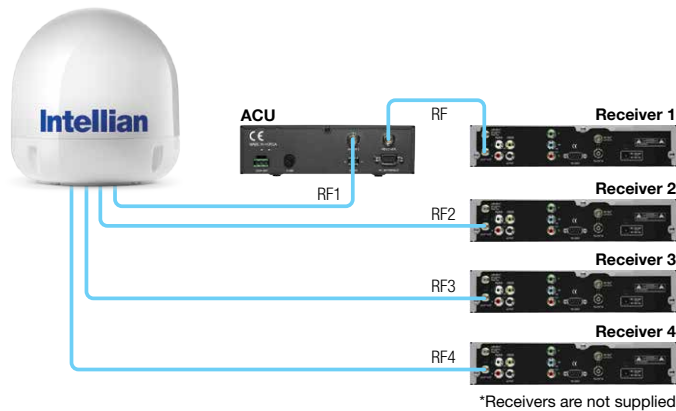
Single Cable from Antenna to ACU

Only one RG6 coaxial cable is required to connect from the Antenna to the ACU. Single cabling allows simpler configuration for installation and easier maintenance

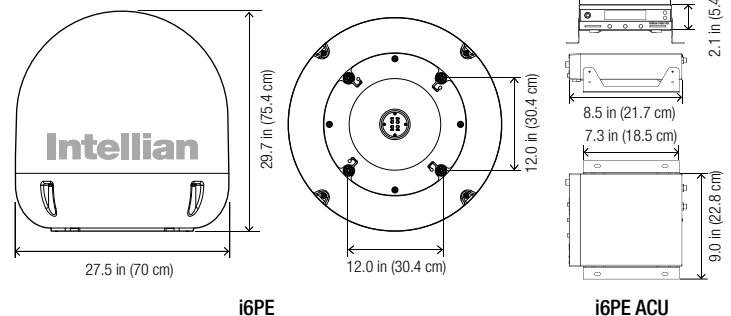
Technical Specifications

Part	Specifications
B3-621Q	Intellian i6PE Satellite TV Antenna System
Physical	
Radome Height	29.7 in (75.4 cm)
Radome Diameter	27.5 in (70 cm)
Antenna Dish Diameter	23.6 in (60 cm)
Weight	44.0 lbs (20 kg)
Environmental	
Operating Temp. Range	5°F ~ 130°F (-15°C ~ 55°C)
Storage Temp. Range	-13°F ~ 158°F (-25°C ~ 70°C)
Water Ingress	IPX6
Approvals	CE / FCC
Warranty	3 Years Parts and 1 Year Labor
Performance	
Reception Frequency	Ku-band (10.7~ 12.75 GHz)
Polarization	Vertical / Horizontal
Minimum EIRP	47 dBW
Azimuth Range	680°
Elevation Range	-15° to 90°
Ship's Motion	Roll ±25°, Pitch ±15°
Roll & Pitch Response Rate	45° / Second
Turn Rate	45° / Second
RF Output	Quad Output
Antenna Control Unit	
Dimensions (WxDxH)	7.0 in x 8.5 in x 2.1 in (17.8 cm x 21.7 cm x 5.4 cm)
Weight	2.6 lbs (1.2 kg)
Display	2 Line 20 Character VFD Module
Control Key	5 Integrated Push Buttons
Power Input	9 ~ 30 VDC (Typ. 30W, Max. 50W)
GPS Interface	NMEA0183

System Diagram



Antenna Dimensions



ISO 9001, 14001 Certified

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