PRODUCT BRIEF

# Intellian® i4/i4P

***Most Popular Size***
***Marine Satellite TV Antenna System***



**Intellian® i4/i4P** As the most popular size for all types of boats, the Intellian i4/i4P provides higher performance to stay locked-on and connect boaters to HD satellite TV entertainment, while vessel is cruising in rough sea conditions. The i4's stylish and polished dome design makes a perfect fit for boats over 50 feet.

- *Standard Size for US nationwide Coverage*
- *Powerful Performance with Competitive Value*
- *Auto Skew Angle Control System for Linear Polarization - i4P only*
- *Seamless Viewing (Automatic Satellite Switch) of All DISH Network and Bell TV Channels. Available with DISH MIM (Multi-satellite Interface Multi-switch)*

For more information, visit *www.**intellian**tech.com*




### Popular Size with Higher Performance
18 inch dish diameter with nationwide coverage for North America, Europe and the regional service around the globe.

### 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 i4 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 i4/i4P provides HD channels from the Ku-band. The HD module is built-in to the Antenna Control Unit of the Intellian i4 for seamless integration and easy installation.

### Built-in GPS
Intellian i4/i4P includes a built-in GPS for easier operation and faster signal acquisition. It allows the i4/i4P to have higher accuracy and easy operation wherever the vessel sails.

### 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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SPECIFICATION

# Intellian® i4/i4P

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## Key Features

### Fully Automated System
Automatic satellite search and identification
2-axis step motors to stabilize the pedestal

### Enhanced Antenna
Highly efficient parabolic antenna enables 49dBW of minimum EIRP.
RHCP / LHCP, Vertical / Horizontal polarization

### Most Popular Size
18 inch antenna dish diameter
Light antenna weighs less than 26 pounds

### 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.

### New Type Antenna Control Unit
Easy to change and update satellite information
Easy antenna status check and automatic diagnosis
Easy antenna control using PC interface

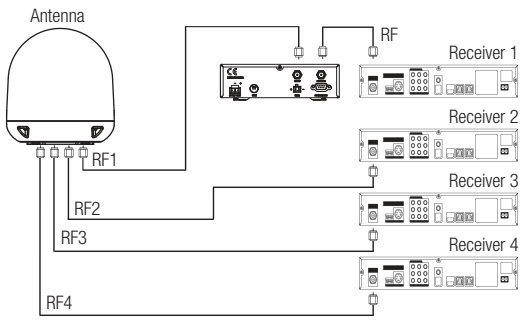
### Built-in GPS and NMEA 0183 Interface Port
The i4/i4P includes a built-in GPS inside of the Antenna Unit for faster signal acquisition. The ship's GPS can also be connected through the NMEA 0183 port on the rear panel of the ACU.

### Automatic Polarization (Skew-angle) Control (i4P only)
Automatic Skew Angle Control System (-90°~ +90°) for Linear Horizontal/ Vertical Polarization.

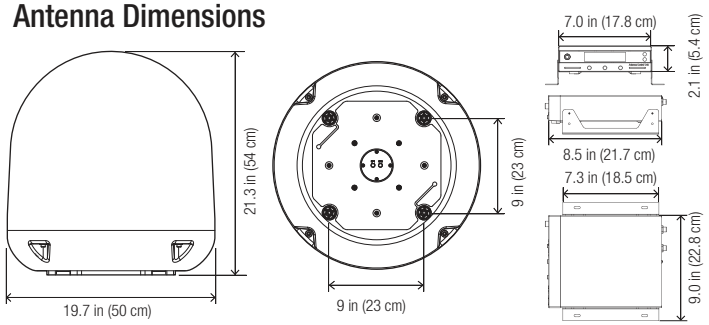
## Technical Specifications

| Part # | Specifications |
|---|---|
| B2-403S | Intellian i4 Satellite TV Antenna System ( US ) |
| B2-401Q | Intellian i4 Satellite TV Antenna System ( Europe ) |
| **Physical** | |
| Radome Height | 21.2 in ( 54 cm ) |
| Radome Diameter | 19.7 in ( 50 cm ) |
| Antenna Dish Diameter | 17.7 in ( 45 cm ) |
| Weight | 25.5 lbs ( 11.6kg ) |
| **Environmental** | |
| Operating Temp. Range | 5ºF ~ 131ºF ( -15ºc ~ 55ºc ) |
| Storage Temp. Range | -13ºF ~ 158ºF ( -25ºc ~ 70ºc ) |
| 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 | RHCP / LHCP, Vertical / Horizontal |
| Minimum EIRP | 49 dBW |
| Azimuth Range | 680º |
| Elevation Range | 0º to +90º |
| Ship's Motion | Roll ±25º, Pitch ±15º |
| Roll & Pitch Response Rate | 50º / Second |
| Turn Rate | 50º / Second |
| RF Output | Dual / 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




i4 / i4P

i4 / i4P ACU

Intellian®

ISO 9001 Certified

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