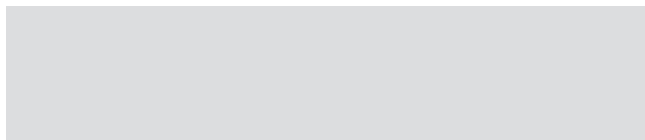




## **Dual TVRO Mediator**

### Installation and Operation User Guide

### Intellian Dual TVRO Mediator Serial Number



This serial number will be requested for all troubleshooting or service inquiries.

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# Introduction

## Intellian Dual TVRO Mediator

Intellian’s Dual TVRO Mediator is designed for a ship that has two Intellian Satellite TV Antenna Systems. Intellian Mediator will compare the satellite signal receptions between the 2 antennas and switch to the antenna that has better signal receptions automatically. It is made to ensure that the program the viewer is watching is clear and free from any interruptions when one of the antenna’s is experiencing blockage. For example; if “Antenna A” is mounted on the port side and “Antenna B” is mounted on the starboard side, they will not both be blocked at the same time if both antennas are tracking the same satellite. The Intellian Mediator will not change the state of the antenna’s if both antennas are blocked, or if both are tracking on a satellite. However, it will switch to provide a satellite signal from Antenna A when it is not blocked and will switch to provide a satellite signal from Antenna B whenever Antenna A is blocked.

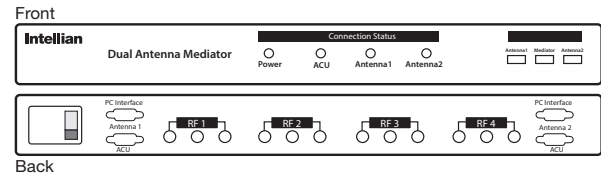
## Components List

| Item | Image                                                                             | Q'ty | Description                | Size | Remark            |
|------|-----------------------------------------------------------------------------------|------|----------------------------|------|-------------------|
| 1    |  | 2    | Rack Bracket               | -    | 19inch Rack Mount |
| 2    |  | 2    | Table Bracket              | -    | Table Mount       |
| 3    |  | 2    | RS-232 Cable               | 1.8m | Mediator to ACU   |
| 4    |  | 1    | AC Power Cord<br>(CEE 7/7) | 1.5m | Mediator Power    |

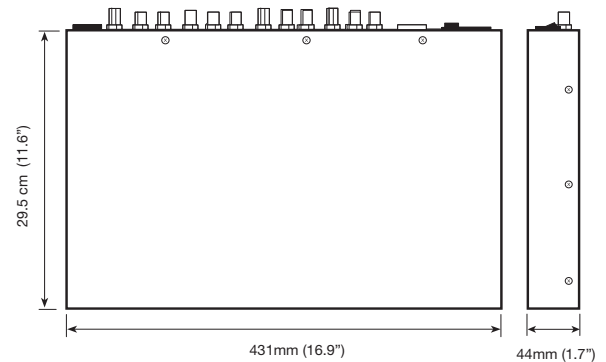
# Dual TVRO Mediator Installation

You will need to wire the Intellian Satellite TV Antenna System differently than specified in its original manual. These instructions will require you to do additional installation steps. The following instructions and configuration diagrams will explain how to modify your system for the Mediator use.

## Front and Rear Panels of the Mediator



## Dimensions



## Intellian Dual TVRO Mediator

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### Installation Site

The Mediator should be installed below deck, in a location that is

- Dry, cool, and ventilated.
- Easily accessible from your main TV viewing area.
- Near to Antenna Control Unit and Multi-Switch

### The LED Status Lights

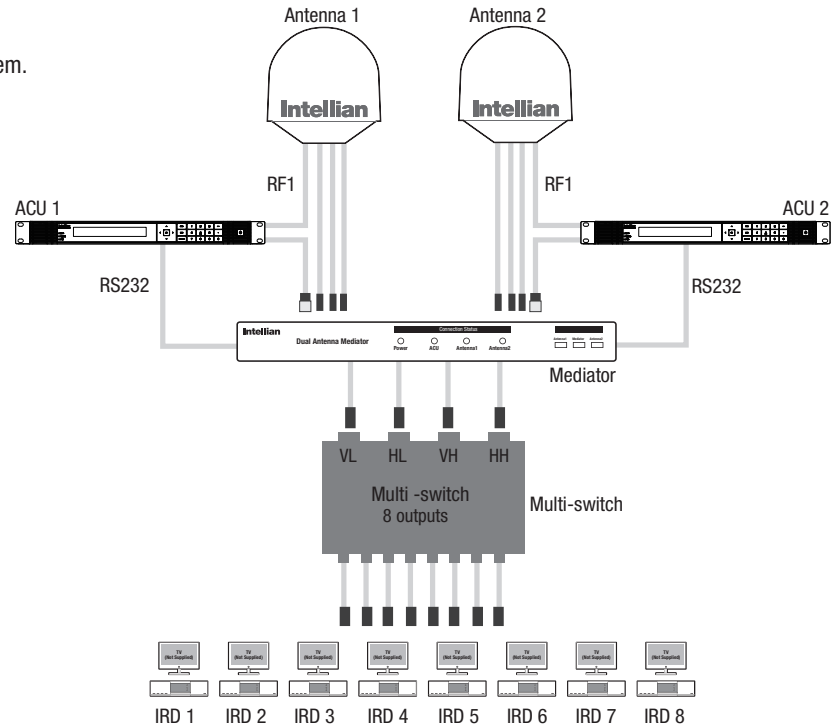
1. Power – Red: Mediator is powered up

2. ACU – Green: Two PC serial cables are connected properly between the ACU and the Mediator.

3. Antenna 1/ Antenna 2 –Green: The antenna that is currently in use will flash.

## Connect the Cables

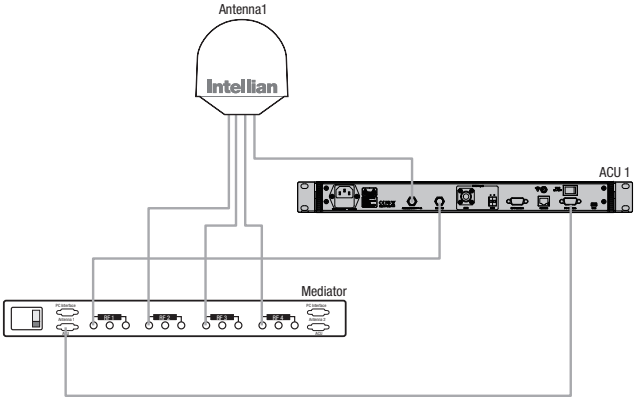
Refer to the simplified block diagram below to install the system.



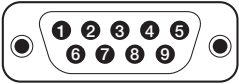
\* TV, IRD and Multiswitch are not supplied by Intellian

Antenna 1

- 1. Connect the coaxial cable from the RF1 connector on the antenna to the ANTENNA connector on the ACU1.
- 2. Connect the coaxial cable from the RECEIVER connector on the ACU1 to the RF1's ANT1 connector on the Mediator.
- 3. Connect the coaxial cable from the RF2 connector on the antenna to the RF2's ANT1 connector on the Mediator.
- 4. Connect the coaxial cable from the RF3 connector on the antenna to the RF3's ANT1 connector on the Mediator.
- 5. Connect the coaxial cable from the RF4 connector on the antenna to the RF4's ANT 1 connector on the Mediator.
- 6. Connect the PC serial cable from the PC INTERFACE (RS-232) connector on the ACU1 to the Antenna1's ACU (RS-232) connector on the Mediator.



• RS232 Connector (Mediator to ACU)



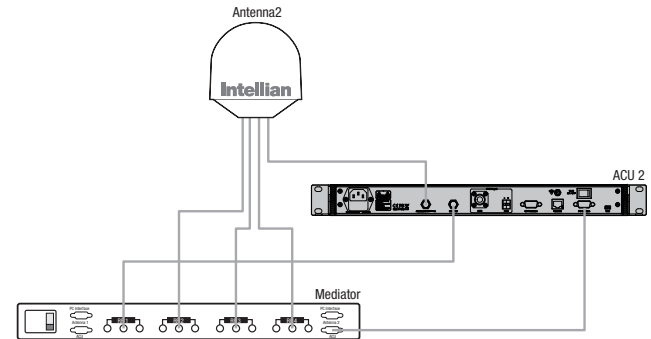
D-Sub 9 pin RS232  
Supplied Component

| Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|
| 1   | -      | 6   | -      |
| 2   | RXD    | 7   | -      |
| 3   | -      | 8   | -      |
| 4   | -      | 9   | -      |
| 5   | GND    |     |        |

---

## Antenna 2

1. Connect the coaxial cable from the RF1 connector on the antenna to the ANTENNA connector on the ACU2.
2. Connect the coaxial cable from the RECEIVER connector on the ACU2 to the RF1's ANT2 connector on the Mediator.
3. Connect the coaxial cable from the RF2 connector on the antenna to the RF2's ANT2 connector on the Mediator.
4. Connect the coaxial cable from the RF3 connector on the antenna to the RF3's ANT2 connector on the Mediator.
5. Connect the coaxial cable from the RF4 connector on the antenna to the RF4's ANT2 connector on the Mediator.
6. Connect the PC serial cable from the PC INTERFACE (RS-232) connector on the ACU1 to the Antenna2's ACU (RS-232) connector on the Mediator.



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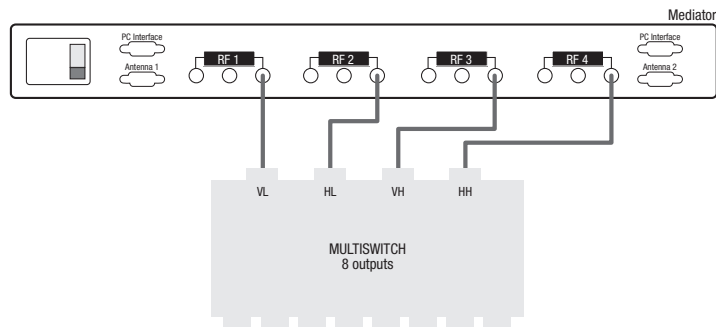
**Note:** Once the ACU is connected to the Mediator, you will have to use either two "PC Interface" connectors on the rear panel of the Mediator or two USB connectors (Antenna 1/Antenna 2) on the front panel of the Mediator to connect the antenna systems with a PC. The Mediator will not function if you connect a PC using the USB connector on the front panel of ACU.

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### Multi-switch

Intellian recommends that an ACTIVE multiswitch be used in all installations.

1. Connect the four IF cables from the four RECEIVER connectors on the Mediator to the 4 input connectors on the multiswitch.
2. Connect the IF cable from the output connector on the multiswitch to the 'Satellite In'/'ANT' connector on the IRD.
3. If you have more than one IRD, repeat step 2 to connect the RF cables between the other receivers and multiswitch output connectors.



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## Warranty

This product is warranted by Intellian Technologies Inc., to be free from defects in materials and workmanship for a period of THREE (3) YEARS on parts and TWO (2) YEARS on labor performed at Intellian Technologies, Inc. service center from the purchased date of the product.

Intellian Technologies, Inc. warranty does not apply to product that has been damaged and subjected to accident, abuse, misuse, non-authorized modification, incorrect and/ or non-authorized service, or to a product on which the serial number has been altered, mutilated or removed.

It is required to present a copy of the purchase receipt issued by Intellian Technologies, Inc. that indicates the date of purchase for after-sales service under the warranty period. In case of failure to present the purchase receipt, the warranty period will begin 30 days after the manufacturing production date of the product purchased.

Any product which is proven to be defective in materials or workmanship, Intellian Technologies, Inc. will (at its sole option) repair or replace during the warranty period in accordance with this warranty. All products returned to Intellian Technologies, Inc. under the warranty period must be accompanied by a return material authorization (RMA) number issued by the dealer/distributor from Intellian Technologies, Inc. and a copy of the purchase receipt as a proof of purchased date, prior to shipment. Alternatively, you may bring the product to an authorized Intellian Technologies, Inc. dealer/distributor for repair.

Additional Terms and Conditions;

The warranty(THREE (3) YEARS on parts and TWO (2) YEARS on labor) is effective only for products purchased since January 1st, 2017.