



TECH NOTE

VICON TECHNICAL SERVICES GROUP

Subject: RDU Troubleshooting
Product: All Receiver-Drivers
Number: 1400-0001-11-00
Date: 07/05/01

Troubleshooting Receiver-Driver Outputs

Symptom:

A constant 24vac or 120vac is measured between the Tilt or Pan common connection to any of the Up, Down, Left, Right connections. The voltage is constant regardless of joystick control or relay activity.

Reason:

Most Vicon PTZ receivers have a resistor/capacitor (RC) circuit across the contacts of the pan and tilt relays. This RC circuit cushions the natural voltage arcing that occurs across the contacts and lengthens the life of the relay.

The RC network also allows a transient voltage to show up on the pan and tilt pins of the receiver even when there are no commands being placed. This usually only becomes apparent when the pan and tilt drive mechanism is not connected properly, or at all, to the receiver. This is because the resistance of the pan and tilt motors balance out the RC circuit to give a 0 voltage when the relay is open.

If the receiver "sees" the motors properly, you should only see a voltage when the relay is activated. Otherwise it should measure 0.0 volts.

Note: This note does not apply to the V1305R receiver because it is a DC output unit.