



TECH NOTE

VICON TECHNICAL SERVICES GROUP

Subject: Comm Fails
Product: V1422
Number: 1400-0001-15-01
Date: 07/05/01

V1422 Communications Failures

1. **Situation:** There may be instances of random communications failures (Comm Fail) or Alarms when using a V1422™ Nova Digital Control and Switching System to operate *Surveyor*® series dome cameras in the *Vicoax*® control mode or even when fixed cameras are used solely.
2. **Symptom:** The V1422 will display Comm Fail in the LCD display, or in the Status window of any V1300X-DVC/RVC keypads connected to the V1422, on a very random basis. These Comm Fails or Alarms can appear without operator action, or can surface while cameras are being controlled. At times, the indicated failed camera receiver or alarm point may not even exist on the system.
3. **Explanation:** The V1422™ can control cameras either by RS422 data control, or by *Vicoax*® up the coax control. The normal background polling that exists within the V1422 CPU can give false indications of communication or alarm status in response to noise if video inputs are un-terminated, or the RS422 Response In – (negative) line is not grounded.
4. **Solution:** The video loop out BNC connectors on the rear panel should always be terminated with the 75 ohm terminators (P/N V75T) supplied with the V1422, whether the input is in use or not. Additionally, if there are no receivers operating in RS422 half-duplex mode, jumper pins 6 and 8 together at connector J4, Receiver Port.