

# IRD Balancing Model 256

## Field Bulletin 052003

There are three observations that have recently surfaced with the balancing program in the IRD Model 256, and they are described in this Field Bulletin to avoid possible operations problems in field applications.

Each of these conditions may appear to be a potential instrument “hang-up” condition, where additional keyboard button pushing and power off can result in further frustrations with instrument functionality.

Issues are listed below, with discussion on functionality. It is important to note that these situations will be addressed properly with the next operating system software update, but the availability date has not been decided at this time.

### Low-Speed Balancing

While field experience with the internal laser and external triggering devices has shown that the Model 256 will accurately read speeds of machinery down to 30 RPM, the balancing program currently has a limitation just at 120 RPM. Any attempts to perform balancing on machines running at less than 120 RPM result in a problem with RPM estimation. The effect is a 0 RPM reading, and magnitude and phase are “zeroed out” as well.

**This is a limitation with the current operating system, and it will be corrected in the next update.**

### Single-Plane Balancing Input Channels

Using the standard 9000A or other ICP accelerometers with the Model 256 allows complete versatility in the selection of either the X channel (top right) or Y channel (top left) as the primary input for balancing, as available on the setup screen. See Figure 1.

However, if the instrument is being used with an AC input device (such as the IRD Model 544), then it is necessary to connect this transducer input to the X channel (top right). No matter how the configuration screen is mapped, it is only the X input that is being read for AC input devices.

**This is a limitation with the current operating system, and it will be corrected in the next update.**

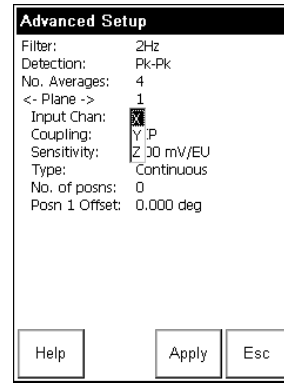


Figure 1

### Two-Plane Balancing Y Channel

It is very important to have a known good input signal connected at the Y input channel (top left). The instrument checks this auto ranging before allowing triggering by the reference input. If there is problem with this signal, then the instrument goes into a never-ending mode of “Acquiring Data and Awaiting Trigger”. See Figure 2.

**This is a limitation with the current operating system, and it will be corrected in the next update.**

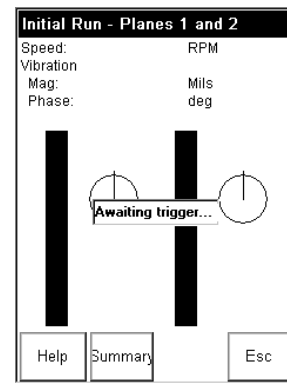


Figure 2