APPLIED INSTRUMENTS

Application Note
05/20/2008
Installing **Dish Network Dish 1000** with SAT 9520™ meter

Meter set-up:
With meter ON, push the **SET UP** button to select the following:
- CHANNEL PLAN   **Dish Pro**
- SWITCH TYPE   **DpTwin**

To make selections, arrow up or down to the item to change and press **Enter**, then arrow up or down to the desired option and press **Enter**.

Press **RUN** button to return to Run Mode

Antenna Pointing

Install the mast plumb, preset the antenna vertical angle, mount to mast and grossly align azimuth.

Run Mode:

To find the 110° satellite:
- Connect a coax cable from the Dish 1000.2 LNB port to the SAT 9520's F-connector.
- Press the arrow buttons to select Transponder 6 (TR 6).
- Press the **LNB** button once to power LNB 1 (meter will display "LNB 1   18V").

After selecting the transponder and pressing the **LNB** button to power the LNB:
- Align the antenna to obtain a strong signal level and lock status **DVB-S**.
- Optimize the alignment by adjusting the antenna to receive the maximum **C/N** value.

To find the 119° satellite:
- Ensure that you're still connected with a coax cable from the Dish 1000.2 LNB port to the SAT 9520's F-connector.
- Press the arrow buttons to select Transponder 21 (TR 21).
- Press the **LNB** button again to power LNB 2 (meter will display "LNB 2   18V").

After selecting the transponder and pressing the **LNB** button to power the LNB:
- Align the antenna to obtain a strong signal level and lock status **DVB-S**.
- Optimize the alignment by adjusting the antenna to receive the maximum **C/N** value.

To find the 129° satellite:
- Connect a coax cable from the 129° LNB port to the SAT 9520's F-connector.
- Press the arrow buttons to examine the signal level on the different transponders.
- Press the **LNB** button again to power LNB 3 (meter will display "Dish 2   18V").

After selecting the transponder and pressing the **LNB** button to power the LNB:
- Align the antenna to obtain a strong signal level and lock status **DVB-S**.
- Optimize the alignment by adjusting the antenna to receive the maximum **C/N** value.

Note 1: Ignore the Signal Quality (C/N) value on the 129° satellite because the SAT 9520™ cannot demodulate these Turbo 8PSK signals. Pay attention to the signal level only and peak for the

highest value possible. If you're locked on and peaked up on the 119° and 110° satellites, then you should be aimed at the 129° already, anyway.

Only Applied Instruments' model Super Buddy satellite meter is capable of demodulating these signals to obtain a lock on the 129° satellite.

Note 2: You must have firmware version 2.2 loaded in the meter in order to see the 3rd LNB (displayed as "Dish 2" on meter). When you turn on the instrument, pay attention to the loaded firmware version displayed. If it says "V2.2 SP 61", then it means that you have firmware version 2.2 and Service Pack 61 loaded in the meter. If you see a firmware version older than this, then you must return the meter to Applied Instruments, Inc. for a firmware upgrade. The firmware upgrade consists of a microchip change and a re-calibration of the unit. Please call 317-782-4331 and ask to speak to the Repair Department to receive an RMA# and the cost of this service.