



## Application Note

11/23/2009

### Installing a **DIRECTV SWM SL5S KaKu** system with the Super Buddy™ satellite meter

**Connections:** SL5S LNBF connected to top (SIGNAL IN) port of Super Buddy meter with coax cable.

#### Meter set-up

Press the **SYST** System soft-key (located near top left corner of LCD screen) to enter the System Setup menu. Then select the following:

- REGION                    your geographic region
- SERVICE                 **DIRECTV**
- SYSTEM                 **SWM LNB**
- LNB MODEL             **SL5s - LNB**
- SWITCH TYPE         **Manual**

*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 **EXIT** or **DONE** to return to Run Mode*

#### Antenna Pointing

Install the mast plumb, preset the antenna vertical angle, mount to mast and grossly align azimuth. You may want to use the ZIP zip code look-up feature to obtain rough antenna settings (magnetic compass heading, elevation, and tilt/skew).

After completing the System Setup:

- 1) Press DONE or EXIT to return to the main Run screen.
- 2) Adjust the tilt or skew of the dish based on the parameters provided by the Super Buddy's zip code lookup feature (ZIP soft-key on main Run screen).
- 3) Connect a coax jumper cable from the top (Signal-In) port of your Super Buddy meter to the LNBF output port.
- 4) Press the LNB soft-key to apply power to the LNB. LNB1 is for the SWM101 satellite. Adjust the azimuth and elevation of the dish to optimize the signal level (left bar graph) and signal quality (right bar graph) on the SWM 101 satellite.
- 5) Then press the LNB soft-key a 2<sup>nd</sup> time. LNB2 is for the SWM 119 satellite. Adjust the tilt or skew of the dish to optimize the signal level (left bar graph) and signal quality (right bar graph).
- 6) Now press the LNB power soft-key two times to return to the SWM 101 satellite. Complete the dithering/fine tuning process, adjusting the azimuth and elevation of the dish while looking at the 101 satellite, as directed by DIRECTV.

This will ensure good signal reception from all five satellites (99, 101, 103, 110, 119) if your pole is plumb.

After aligning the SWM 5-LNB dish (model SL5s), as an optional step, if you want to look at the signal level and signal quality of all 9 SWM channels, use the following System Setup:

- REGION                    your geographic region
- SERVICE                 **DIRECTV**
- SYSTEM                 **SWM-LNB**
- LNB MODEL             **SWM Ch Verify**
- SWITCH TYPE         **none**

After completing the System Setup, press DONE or EXIT to return to the main Run screen. With a coax jumper cable still connected from the top (Signal-In) port of your Super Buddy meter to the LNBF output port, press the LNB soft-key to apply power to the LNB. Use your up/down arrow keys to scroll through the 9 SWM channels. You will be able to see the signal level (left bar graph) and signal quality (right bar graph) and LOCK status of all 9 SWM channels.

Note: When powering the SWM LNBFs (models SL3S or SL5S), nothing will be shown on the LCD screen of the meter (signal level or signal quality) for approximately 15 seconds until after LNB power is applied (whether you use the DIRECTV power inserter or use the Super Buddy directly to power the LNBF. After you turn the LNB power on, you must wait approximately 15 seconds before beginning to align the dish. After those 15 seconds, everything will refresh instantly as it normally does. We believe that this delay is caused by the SWM LNBF going into diagnostic mode.

Other Notes:

-It is NOT recommended to keep Super Buddy meter in line while checking receiver status due to attenuation from our circuitry.

Please ensure that you have the latest versions of North American Field Guide, Software, and USA Zip Codes loaded into your meter. If your meter has older versions loaded, please use the FlashUpdate program to update your meter, as described in the [Operations Manual](#).