



Application Note

11/15/2010

Installing DMX741 LNBF combo C Band / Ku Band systems with Super Buddy™ satellite meter

Connections:

- Connect a coax jumper cable from the end piece connector (Ku portion) to the port labeled "LNB" on the DMX741 LNBF
- Connect a coax jumper cable from the top (SIGNAL IN) port of Super Buddy satellite meter to the "RCV" port of the DMX741 LNBF

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 **Generic C Band**
- SYSTEM choose **H/V Dual Pol LNB** if you have a linear system or choose **Circ Dual Pol LNB** if you have a circular system. These selections are referring to Horizontal/Vertical Dual Polarity LNB setup and Circular Dual Polarity LNB setup.
- LNB MODEL **C/Ku band combo**
- SWITCH TYPE defaults to **22kHz**

*To make selections, press up/down arrow keys to scroll to the item to change 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 code look-up table to obtain rough antenna settings.

- Press the left / right arrow keys to select the desired satellite (orbital position displayed in upper left corner of LCD screen).
- Press the **ZIP** zip code soft-key (located near lower left corner of LCD screen). Type in the local zip code or latitude/longitude coordinates using the numeric keypad and then press **ENTER**. Approximate antenna settings will be displayed.

Run Mode

- Press the **LNB** soft-key (located near middle right side of LCD screen) once (LNB1) to power the C-Band portion of the LNBF and search for C-Band signals. Press the LNB power soft-key a second time (LNB2) to power the Ku Band portion of the LNBF and search for Ku Band signals. When on the LNB2 setting, the meter will output the required 22 kHz tone to control the built-in 22 kHz switch located inside the DMX741 LNBF to look at the Ku Band portion of the DMX741 LNBF assembly.

After selecting the satellite and pressing the **LNB** soft-key to power the LNBF:

- Adjust the antenna azimuth and elevation to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Adjust the LNBF focal depth distance and the polarity offset to maximize signal quality, if necessary.
- Press the **ID** soft-key to verify the satellite. "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and Super Buddy will find which satellite you are aimed at.

- If desired, press Up/Down arrow keys to scroll through other transponders to check for proper signal level and signal quality. It is recommended to aim the dish initially while tuned to the default transponder.

Other Notes:

-It is recommended to display the C/N signal quality value instead of the arbitrary IRD value since the IRD value scale is more appropriate for smaller dishes. To change your settings, press the **MENU** soft-key in bottom right corner of LCD screen. Use Up / Down arrow keys to scroll to Options and press **Enter**. Use Up / Down arrow keys to scroll to the Quality field. Then use Left / Right arrow keys to select C/N. Press **EXIT** soft-key to return to main Run screen.