Installing a Dish Network Legacy Single system using the XR-3 Satellite Meter

Connections: Coax cable connected from an output port of Legacy Single LNBF to the XR-3 satellite meter module's ODU/LNB port

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   **Dish Network**
- SYSTEM   **Legacy Single**
- LNB MODEL   choose your appropriate desired satellite (**i.e. Orbital 61.5, Orbital 72.7, Orbital 77, Orbital 110, Orbital 119, Orbital 129, 110 Stacked, 119 stacked)**
- SWITCH TYPE   defaults to **none** (assuming you'll be connected directly from top ODU / LNB port of meter to LNBF output port)

*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*

Azimuth/Elevation Lookup:

Press the **AZ/EL** soft key (lower left corner of main run screen), use the numeric keypad to enter the Postal Code for your current location, and press the **ENTER** key. Press **EXIT** to return to Run Mode.
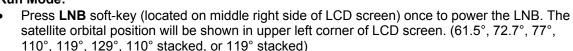
Antenna Pointing

Install the mast (pole) plumb, preset the antenna reflector's vertical angle (elevation setting) and Skew setting, mount antenna reflector to mast, and grossly align azimuth (using magnetic compass according to 'Magnetic' coordinates shown in AZ/EL screen on meter). You may want to use the AZ/EL look-up feature to obtain rough antenna reflector settings based on your zip code or latitude and longitude.

Application Note

10/29/2015

Run Mode:

- Press **LNB** soft-key (located on middle right side of LCD screen) once to power the LNB. The satellite orbital position will be shown in upper left corner of LCD screen. (61.5°, 72.7°, 77°, 110°, 119°, 129°, 110° stacked, or 119° stacked)
- Adjust antenna reflector azimuth (left or right) and elevation (up or down) to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Press the **ID** soft-key (located on middle left side of LCD screen) to verify that you're aligned to the correct satellite. "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and the XR-3 will find which satellite you are aimed at.
- If desired, you may also use Up/Down arrow keys to scroll through other transponders to check for proper level and quality.

Limit Scan:

This step may be done for each satellite.

- Press the **MENU** soft key.
- Press the **LIM SCAN** soft key or scroll and highlight **Limit Scan** and press **Enter**.
- Press the **EDIT** soft key then press the **USE ZIP** soft key.
- Press **DONE** to perform limit scan.
- Review results or save them in meter for future use.

You may also choose to use the PoP Scan function of the meter to record the measurements. Please refer to the operations manual for more information and instructions related to the Proof of Performance scan feature.

Notes:

- It is NOT recommended to keep the XR-3 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, Dish Limit values, and Postal 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.

APPLIED INSTRUMENTS, INC.

RF TEST AND MEASUREMENT