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Installing Sagenet™ (formerly known as Spacenet™) Ku Band VSAT System with XR-3 satellite meter

Connections: Coax cable connected from LNB output port to XR-3 satellite meter module's ODU / LNB port

Meter set-up

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

- REGION specify your geographic region (i.e. **NE Continental US** or **SW Continental US**)
- SERVICE **Other Providers**
- SYSTEM **Sagenet Ku**
- LNB MODEL select either **LO=10.75, 11.7-12.2** or **LO=10.6, 11.7-12.75**, depending on your LNB type
- SWITCH TYPE defaults to **none** assuming you'll have meter connected directly to LNB without multi-switch in line

*To make selections, arrow up or down to the item to change (using the meter's Up and Down arrow buttons) 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, grossly align azimuth, and preset the polarization offset by rotating the feed horn assembly or skew of antenna reflector (if applicable). You may want to use the AZ/EL lat/long or postal code look-up feature to obtain rough antenna settings.

- Use left / right arrow keys to select the desired satellite (orbital position displayed in upper left). Refer to your service paperwork to know which satellite to aim dish at (i.e. 125°W AMC-21, 123°W Galaxy 18, 121°W Echostar 9, 101°W SES-1, 87°W SES-2, or 63°W Telstar 14R).
- Press the **AZ/EL** soft-key (located near lower left corner of main Run screen), type in the local postal code or latitude and longitude, and press **ENTER**. Approximate antenna settings (i.e. magnetic compass heading, azimuth, elevation, and polarization offset) will be displayed. Press **EXIT** soft-key to return to the main Run screen.

Run Mode

- Select the vertical or horizontal receive/downlink/outbound polarization (**VT** or **HZ**) with the upper right soft-key. Refer to your service paperwork to know which receive polarization to choose. You must have your feed horn physically oriented for the same receive/downlink/outbound polarization that you specify to the meter.
- Press **LNB** soft-key (located near middle right side of LCD screen) to power the LNB.
- Adjust antenna reflector alignment (azimuth and elevation) to obtain maximum signal level (shown on left bar graph in dBm or dBmV or dBμV), signal quality (shown on right bar graph in IRD, C/N, Eb/No, or Es/No), and LOCK status.
- Rotate the LNB and feed horn assembly (adjusting the polarization offset) or skew of dish antenna reflector (if applicable) to maximize signal level and quality.
- 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 XR-3 will find which satellite you are aimed at.
- You may also use the Up/Down arrow keys to scroll through other transponders (besides the default transponder) to check for LOCK (for more supporting evidence you're aimed at desired sat) and proper level and quality.
- Set cross-pol using methods described in SatProf's VSAT courses (i.e. by verbally talking to NOC, using modem software, etc.). Visit www.satprof.com or www.gvf.org/training for more information.

Other Notes:

-It is NOT recommended to keep XR-3 meter in line while checking IRD/receiver/modem status due to attenuation from the meter's circuitry.