RAINIER CISCO COMMERCIAL D9865 D - H - B RECEIVER QUICK TIPS.

PLEASE READ DOCUMENT FULLY BEFORE ATTEMPTING TO PROGRAM DATA.

➢ Pre-setup Procedure

Connect with RG6u 1450 mhz or better jumper cable using compression connectors to the receiver. Connect from either Rainier approved Diseqc switch (9865 to power the LNB's) or Rainier approved high block splitter (using the D9865 receiver as a slave, using master receiver to power the LNB. 18-21 volts DC must be obtained by master receiver for both polarities. Please verify to ensure proper operation). Low cost or knockoff Diseqc switches or high block splitters can cause signal issues. Always use genuine Rainier approved parts available at our store.

1) **Put batteries in the remote control.**
2) **Power on the unit with the toggle switch on the back and bottom right of the unit.**
3) **Power on your television set and move on to setup procedure.**

➢ Receiver Setup Procedure

- **Administration Procedure**

1. **Press "Menu" Button on remote.**
2. **Go to "Setup Menu", and press "ok" on remote.**
3. **Go to "Advanced Setup", press "ok".**
4. **Go to "Administration", press "ok".**
5. **Go to "POV Mode", press "ok", and set to "Open" with arrow keys on the left and right of "ok", and press "ok".**
6. **Go to "Date Format", press "ok", set to "DD/MM/YYYY", and press "ok".**
7. **Go to "Time Format", press "ok", set to "12 Hr", and press "ok".**
8. **Go to "Time Offset"; press "ok"; set to "-5:00" for Eastern, "-6:00" for Central, "-7:00" for Mountain, "-8:00" for Pacific, "-9:00" for Alaska, or "-10:00 for Hawaii; and press "ok".**
9. **Press "Exit" button on remote.**

> ➢ **If you ordered our optional Data pre load service this will already be done for you.**

- **Setup Channel Groups**

To add a new preset (channel group) select a number 1-64.

On
Remote
Press:
Setup
Tuning/Preset
Enter
Preset
Enter a number 01-64
Enter a name (use red button for keyboard)
Set Modulation type DVB S or DVB S2
Set Downlink frequency
Set Symbol rate
Set Net ID
Save
Activate

✓ **TIP** **When entering in data. Highlight field by pressing OK to change. You cannot enter in decimal point please ignore.**

Downlink = 03970   Enter: 03.970000 GHz
Symbol Rate = 30000 Enter: 30.0000 MS/s
NetId = 15   Enter: 00015

If you enter in data incorrectly you will not receive a correct signal lock. Please check carefully when entering.

Detailed Explanation

Press Setup on Remote:

The first screen is the Setup menu. Tuning / Preset is highlighted, Press OK.

To enter in a new service into a preset, push the YELLOW button, the next menu will have PRESET NUMBER highlighted. Next press OK and the first number will turn black. You can change this number either using the up down arrow or Direct enter the number using the remote numerical keys on the remote, press OK. Then press the down arrow once, then OK.

NEXT

Scroll Down to Preset Name to name of the new programing service. Press the **RED** KEYBOARD BUTTON. You can enter the letters using the remote Keyboard or push the up the down arrow keys to scroll through both lower and upper case letters. Once name is entered go to OK and press OK on remote.

NEXT

Scroll past LNB Configuration as it already set to 1 which is 5150Mhz (C band LNB) stop on MODULATION TYPE. Using the left or right arrow set it to DVB-S2 or DVB-S as required by the service, Press OK.

NEXT

Scroll Down to DOWNLINK and enter in the the Frequency of the transponder. Make sure you enter any leading ZERO, so 4 GHz is 04.00000 Ghz. If your tuning Ku band there is no leading ZERO example 12.110000 GHZ, Click OK to enter.

NEXT

Scroll down to SYMBOL RATE and click OK, Then enter the number (example 30000 MS) then click OK again.

NEXT

Scroll down to NetId, Click OK and enter the NET ID. Rainier provides the proper NET ID number for our subscription services. NetId for a FTA services is usually 1 or 0.

NEXT

Once everything is entered correctly, position your dish on the satellite and polarity of the service you want to view, using either your Rainier approved dish mover or other mover. Proper polarity with our ortho feed / Diseqc setup will be selected using proper LNB configuration for group. (see Harvard Scientific Ortho Feed Hookup and 9865 Configuration document) If you're using a servo feed make sure your polarity degree is set correctly. Then Press the **BLUE** button to A CT I V A T E this scans that transponder in. You will get a warning, **Changes may affect system settings sc reen** , do not worry just Press OK. If you're on the right satellite and polarity you will see **Acquisition S u c c e s s f u l or Acquisition Failed**. If it failed check the satellite dish position and polarity setting on your Rainier approved mover, 4DTV master receiver or other mover. With DVB-S2 polarity and position has to be exact, and this can be touchy sometimes. Tune slowly, if your dish is tracking the arc properly and you using the proper equipment you should have no problem getting reception. If you still have problems contact your local dish installer, Satellite Dealer or Rainier customer support for more information.

➢ **RAINIER CHANNELS (Channel Groups) SETUP PARAMETERS:**
➢ **For Receiver Preset Setup Data Download our dataset.pdf**

When changing between Subscription Channel Groups (Suites from different providers) there can be a delay up to 15 minutes depending on server load before the receiver will authorize for that new channel group. (most turn on sooner) This is NORMAL and how the Cisco PowerVu rolling authorization system works. There is nothing wrong with your receiver or subscription. If you want to watch something from a different group at a specific time please adjust your tuning and viewing time schedule accordingly.

To acquire a new Rainier Channel Group (preset):

Set your Rainier Mover, 4DTV or analog receiver to the satellite degree position required and proper Horizontal or Vertical polarity of the PowerVu Rainier preset channel group requested.

When that is done on the D9865H remote do the following.

Press:
Setup
Tuning/Preset
OK
Yellow button (Preset) Preset
Number
OK
Enter Number (highlight)
OK
Blue button
(Activate) OK
Continue Acquiring
Network Success
Tune to channel (ie 102MAVTV, 1 NFL Network etc.) number of Rainier subscription channel use channel up or down or direct entry buttons. You can also view channels in the suite by pressing EPG.

If you fail to acquire the channel group, check and see if the satellite position is peaked and the polarity is correct. If your system is tuned properly and working well, you should easily acquire the channel group (suite).

Note: DVB S2 8PSK HD signals need to be spot on, make sure your dish alignment and LNB are up to the task.

➢ FTA / FreeView Channels Viewing

TIP NID setting:

When programming a free to air channel, group (FreeView) or free feed into your D9865 use a **NID of 0** to acquire that mux. For Rainier subscription channels you must specify required NID provided in this document. Incorrect NID may cause mux to fail to scan in correctly and play.

TIP Audio Setting:

TO SET AUDIO for NBC MASTER NETWORK Channels on 105w FTA.

On Remote

Press:
Menu
Go to Setup Menu
Scroll down to Audio
Setup Press OK
Toggle Right to Mixed
Press OK
Scroll down to PMT Audio Source
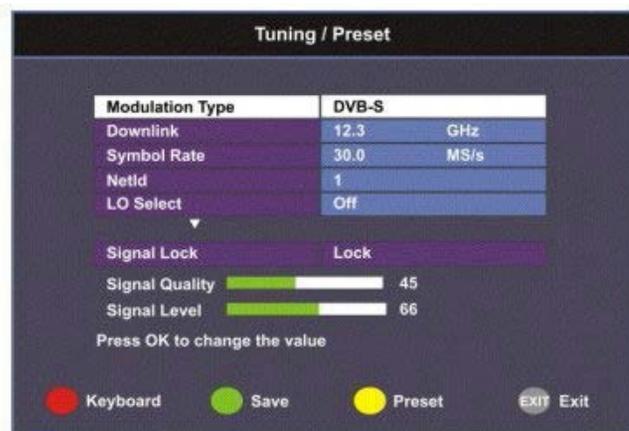Press OK
Toggle Right to Audio 4
Press OK
Exit

Revert to original settings for normal operation with other channels or no audio may be heard.

- ✓ Stereo
- ✓ Audio 1

➢ **Signal Quality readings on the D9865 receiver.**

If have used a FTA receiver in the past you need to know the signal quality numbers are exaggerated on these low cost devices. Most FTA receivers will lose signal lock around a 50-60 quality. The D9865 meter reads true quality numbers. The numbers you see especially on the DVB S2 signals may seem low but aren't. When tuning your dish a number of 7 or more should be obtained for solid lock under all conditions with DVB S2 signals.

Do not be alarmed if the number seems low to you this is **NORMAL**. The Cisco receiver will work with a 3 for quality number. If you encounter such a low number though your either tuning a very weak signal, have dish tracking or other issues, or your dish size is inadequate for your location. Please rectify low quality number situation to ensure you're enjoying Rainier's Pure HD signals to the fullest. Rainier Satellite offers many documents at our SUPPORT page, and carries high quality replacement parts in our store to rectify most low quality numbers issues. Please consult the documents before contacting Rainier tech support.

Note: DVB S signals quality will normally read higher than DVB S2.

● **For DVB S2 signals reference guide.**

0-2   *Unstable*
3-6   *Poor*
7-11   *Fair*
12-20 *Good*
21-28 *Above Average*
29 or higher *Excellent*