AFN Decoder Configuration
Decoder PowerVu D9865

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Equipment / Terminology

Satellite Dish – Metal or wire-mesh fiberglass plate used to reflect the RF signal from a satellite in orbit. Satellite dish must be level in order to make accurate azimuth and elevation adjustments. The satellite dish has an arm extending out to a focal length to support the LNB. The LNB and support arm is either off-set (not directly in the center of the dish) or prime focus (LNB above the center of dish and supported by three arms).

LNB – a small receiver sitting at the end of the satellite dish extension arm that sends the signal to the decoder. LNB can be orientated right hand, left hand, or circular polarization. Right or left hand polarization requires a skew adjustment which means rotating the KNB within its sleeve to a skew offset. The satellite dish and LNB are designed for prime focus or offset and for C band or Ku band. Most direct-to-home (DTH) dishes and LNB are offset and Ku band. AFN satellite signals are C band for international and Direct-to-Sailor (DTS) signals and Ku band for DTH satellite signals.

IRD – Integrated Receiver Decoder. Provides power to the LNB through the coaxial cable on the satellite dish. Receives the satellite signal from the LNB and decrypts, if necessary, and decodes the MPEG signal for television viewing or radio listening. IRD MUST be authorized to receive the services of the desired television and radio programs.

Preset – The Cisco D9834, D9835 and D9865 has the ability to enter preset configurations for the various AFN satellite networks. The D9865 presets are factory set but can be changed. Once changed these presets can be saved and remain in the IRD until deleted or changed and saved again. Because of satellite changes the factory setting of presets should be verified for accuracy. The customer (you) can verify and enter the correct presets for your region (satellite), add other free-to-air programs from your satellite, and/or other AFN regions. The presets, once saved, are available for recall by simply changing the decoder to that preset. MyAFN website provides a list all AFN services by decoder type and region.

1
The D9865 integrated receiver decoder (IRD) can store as many as 64 presets (1-64). Procedures for establishing and setting up Presets is available in the D9865 Installation and Operation (I/O) Guide posted on MyAFN web site. Additionally, a spreadsheet with D9865 settings for all AFN services is located on the same web site.

The following photograph and chart explains the function of buttons on the front panel of the D9865.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
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| DISPLAY  | • Enables the video display output.  
            • When the video display is enabled, the channel number is displayed on the front panel. When switched off, a “.” flashes. |
| MENU     | • Enters Menu mode or returns to video.  
            • Returns to previous menu.                                                     |
| SELECT   | • Selects menus.  
            • Enters or exits edit mode.                                                    |
| ▼▼▲▲    | • In Menu mode, used to navigate menus.                                              |
| ▼▼        | • In Video mode, used for volume up/down.                                           |
| ▲▼        | • In Video mode, used for channel up/down.                                          |

Procedures for setting up of the D9265 IRD in this guide requires the use of the remote control. If you do not have the remote control please refer to page 3-2 of the D9265 I/O Guide on MyAFN web site for use of front panel controls.
To select a menu or to change a setting within a field use the up/down, left/right arrow buttons on the remote control. In addition, there are colored buttons on the bottom of some menus which provide shortcuts to other menus. Selecting the color button on the bottom of the remote control will take you to that menu. For more detailed instruct on the use of the remote control and its buttons refer to page 3-6 of the D9865 IO Guide on MyAFN website.

Two buttons on the remote control directs you to the setup page, menu and setup. For these instructions the menu button will be used and notes provided to identify the difference between buttons operation.

Again, for this setup procedure the setting and preset for AFN Pacific DTH will be used. Setting and presets for all AFN locations are available in the D9865 Setting and Preset document located on the MyAFN website.

In the following examples all information has been removed to avoid confusion. Information will be entered line-by-line and remain on screen once entered.

1.1 Insure the TV set is turned on and set for the decoder. Insure decoder power is turned on. On the decoder remote control press the Menu button.

1.2 Using the down arrow on the remote control highlight Setup Menu; press OK.

Note: This takes you to the Setup Menu; a Setup button on the remote control will take to the same menu.

1.3 On the Setup Menu page insure the Tuning / Preset field is highlighted.

1.4 Press OK to select the Tuning / Preset Menu page.
The Tuning/Preset page should appear with the Modulation field already highlighted.

1.5 Use the up arrow to highlight the Modulation Type field, if necessary. Press OK, a left and right arrow will appear in the right hand column. Use the left or right arrow key on the remote control to toggle the field to DVB-S. Press OK to lock the field.

1.6 Using the down arrow on the remote control, highlight the Downlink field; press OK.

1.7 The number field to the right of the Downlink field is now active. Using the keypad on the remote control enter 12647000 NOTE: a decimal point will automatically appear when the correct number of zeros have been entered. Press OK to lock 12.647 into the field.

1.8 Using the down arrow on the remote control, highlight the Symbol Rate field; press OK. This activates the right side field.

1.9 Using the remote's keypad enter 280000; enter enough zeros to have a decimal point appear after the 28. The number of zeros to the right of the decimal is of no value. Press OK when you obtain 28.0000; this locks the value into the field.
1.10 Using the down arrow on the remote control highlight the NetID field; press OK.

1.11 The right field is now activated; enter 00004; press OK to lock field. The four zeros in front of the 4 will disappear when OK is pressed. This field requires five digits; so, if you are attempting to enter NetID 11 the entry would be 00011.

1.12 Using the down arrow on the remote control highlight the LO Select field; press OK.

1.13 The right field of LO Select is now activated and has a left and right arrow. Using the left or right arrow on the remote control set the field to Off; press OK to lock the field. NOTE: viewers using a dual LNB on their antenna would set this field to Auto. Additional NOTE: please notice in the middle / bottom of the LO Select field is a down arrow. This signifies additional fields are within the menu and access is by the down arrow. As soon as you push the down arrow all fields move up one; the Modulation Type field disappears; an up arrow appears in the middle / top of the Downlink field which now at the top. We will now proceed to fill in the rest of the fields.

1.14 Using the down arrow on the remote control highlight the LO Freq 1 field; press OK to unlock the field.

1.15 Using the keypad on the remote control enter 10600000; add enough zeros until the decimal point automatically appears and you have a reading of 10.6; press OK. NOTE: the number of zeros to the right of the 6 have no impact on the value except that they move the decimal point.
1.16 Use the down arrow on the remote control to highlight LO Freq 2 field; press OK to unlock the field.

1.17 Using the keypad on the remote control enter 00.000000; press OK. Only viewers using the European AFN network use LO Freq 2, and when it is used, the smaller frequency is entered into LO Freq 1 and the larger frequency into LO Freq 2.

Note: AFN Europe DTH and AFN Pacific DTH use more than one satellite transponder for all the program material transmitted from AFN-BC. However, the transponders on the AFN Pacific DTH network are close enough together frequency wise that only one LO frequency is necessary. The separation between the transponder frequencies on the AFN Europe DTH is great enough to require the use of two LO frequencies.

1.18 Using the down arrow on the remote control highlight the Crossover field; press OK to unlock field.

1.19 Using the keypad on the remote control enter 00.000000; press OK. Note: Crossover is the frequency where the decoder will switch between LO Freq 1 and 2.

1.20 Using the down arrow on the remote control highlight the LNB Power field; press OK to unlock the field. The right field will display a left and right arrow.

1.21 Use the remote control left or right arrow key to scroll through the menu options and select 18-H; press OK to lock the field selection.
1.22 Use the down arrow on the remote control to highlight the DiSEqC field; press OK to open the field. The right field will display left / right arrows.

1.23 Use the right or left arrow key on the remote control to scroll through the menu to Disable; press OK.

1.24 Use the down arrow on the remote control to highlight the DiSEqC Switch field; press OK to unlock the field. The right field will display the left / right arrows.

1.25 Use the right or left arrow on the remote control to scroll through the menu to Off; press OK.

Note: Please notice the down arrow in the middle / bottom of the DiSEqC Switch field has disappeared. This indicates there are no other fields below this field; all other fields are now at the top as indicated by the up arrow at the middle / top of the LO Freq 2 field.

1.26 Press the down arrow on the remote control once; this will highlight the Preset option at the bottom of the menu. Now use the right arrow on the remote control and highlight the Exit option; press OK. An "Acquiring Network" message will appear. Wait several minutes for a message to appear. If an "Acquisition Status" message appears; press OK. If the satellite antenna is aligned Lock will appear to the right of the Signal Lock field. Using the remote control arrows go to Exit and press OK to go to video. If the "Acquisition Failed" message appears select OK to save settings. Return to the Tuning / Preset menu and double check all menu/field settings. If settings are correct your satellite antenna could need realignment. See satellite antenna set-up and alignment on MyAFN website.