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Directv advanced installation meter manual

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Advanced Installation MeterUser's Manual© 2010 Rev B Advanced Installation Meter User's Manual © 2010 Rev BContents Warranty iv Return Policy v Getting Started 1 Introduction 1 Using This Manual Overview Conventions Getting To Know Your Meter 2 2 4 5 Features 5 Accessories Display Buttons Navigation 7 8 8 9 HOME Screen Powering Your Meter 10 10 Power-On Standby Mode Restart Power-Off Power Management Battery Charging 10 11 11 11 12 13 Battery Replacement 14 iAIM User's Manual Getting Technical Support 17 Safety Instructions Technical Specifications Spare Parts List 18 19 20 Setting Up the Meter Entering Registration Information 21 22 Changing Volume Setting 24 Changing the Display Contrast or Brightness Changing Time and Date Settings Changing Automatic Timer Settings 25 26 28 Setting Up a Job Starting a Job Modifying the Setup for a Job Notes 30 31 33 33 ODU Type Switch Type 34 35 Zip Code 36 iiAIM User's Manual Installing an ODU Aligning the ODU Task A. Installation Setup Task B. Coarse Azimuth Adjustment Task C. Coarse Elevation Adjustment Task D. Tilt Adjustment (95° 3-LNB, Slimline-5, and Slimline-5S (SWiM) ODU's Only) Task E. Fine Elevation Adjustment (Slimline ODU's Only) 37 37 39 40 40 41 41 Task F.AIM User's Manual Managing Records Understanding Records Account Records Setup Records User Records Test Records Data Records Viewing Records Deleting Records Transferring Records 65 66 66 67 67 68 69 73 75 Updating the Meter 77 Glossary 79 Index 81 ivAIM User's Manual Warranty Trilithic, Inc. warrants that each part of this product will be free from defects in materials and workmanship, under normal use, operating conditions and service, for a period of fifteen (15) months from date of shipment. The obligation of Trilithic, Inc. under this warranty shall be limited, at the sole option of Trilithic, Inc., to replacing the product or repairing any defective part.AIM User's Manual Return Policy Before returning a product for service, please call Trilithic Customer Service at 888-895-7630 for an RMA number. During this call, a Product Service Representative will schedule your unit for service, note the nature of the problem, and provide instructions for the return of your product. All AIM service will be provided by Trilithic at: Trilithic, Inc. 9710 Park Davis Drive Indianapolis, In. 46235 USA Phone: (888) 895-7630 Fax: (317) 895-3613 email: service@trilithic.1 Getting Started Introduction Congratulations on your new Advanced Installation Meter (AIM)! The AIM was developed in collaboration with DIRECTV to provide customized features for installing and troubleshooting DIRECTV satellite receiver systems. The AIM is a rugged meter suitable for both indoor and outdoor use. When fully charged, the AIM can be used to install satellite receiver systems in approximately six single-family homes on a single charge.1 Getting Started AIM User's Manual Using This Manual Overview Read this manual completely before using your AIM. great.gatsby.study.guide.questions.answers



Also, retain this manual for future reference. For information to help you get started using your AIM, see the sections below: *f* Getting to Know Your Meter, starting on page 5. This section provides an overview of the AIM, including information about the meter and its accessories, its display and buttons, and how to navigate through the screens on the meter.1 Getting Started AIM User's Matual Instructions for using the AIM's features are provided in the following chapters: *f* Chapter 2: Setting Up the Meter, starting on page 21. Before you use your AIM, you need to enter registration information and confirm the meter's settings. This chapter provides instructions for entering registration information, as well as setting the meter's volume, display contrast and brightness, time limits for power-saving features, and date and time.i Getting Started AIM User's Manual *f* Chapter 6: Performing Other Network Tests, starting on page 50. If there is a problem with a DIRECTV installation, you can run network tests to help you troubleshoot the problem. renadek.pdf This chapter provides instructions for performing tests including the In-line test, Satellite Tune test, SWiM LF Power test, Cable Resistance test, and Transponder Survey. *f* Chapter 7: Managing Records, starting on page 65.1 Getting Started AIM User's Manual Getting To Know Your Meter Figure 1 Front View Features 1 Your AIM has the following features: 2 Connectors 1 IRD F connector 2 ODU F connector 3 Type A USB connector (Standard) 4 Type B USB connector (Mini) 11 5 Power input Buttons 6 6 Softkeys 7 Navigation keypad 7 8 Alphanumeric keypad 9 Operation buttons 8 3 9 4 10 Power Other 11 LCD display 5 10 51 Getting Started AIM User's Manual 12 Speaker Figure 2 Back View 13 Meter serial number 12 13 61 Getting Started AIM User's Manual Accessories Figure 3 Meter Accessories Your AIM comes with the following accessories. If any of the following items are missing, contact your supplier.1 Getting Started AIM User's Manual Display Figure 4 The AIM has a large LCD display with a backlight for easy readability. Each screen that appears on the display has the following: Meter Display 1 2 1 Title bar: Indicates the screen that is displayed. jenonifalotasadojijezanu.pdf 2 Battery icon: Indicates the power level of the battery. 15961656365.pdf 3 Main area: Shows information about the task being performed. 3 4 Message bar: Provides: (a) instructions to guide you through the task being performed; or, (b) status messages.1 Getting Started AIM User's Manual Navigation Keep in mind the following guidelines when using the meter buttons to navigate through the AIM's features: *f* To select a softkey option, press the button below that option. *f* To highlight an option in a list, do one of the following: – Use the arrow buttons to highlight the option. – Use the alphanumeric keypad to enter the number for the option.1 Getting Started AIM User's Manual HOME Screen The HOME screen lets you access the AIM's main features. You can press the HOME button at any time to access the HOME screen. The HOME screen provides four softkeys that correspond to each of the main features of the AIM: *f* SETUP: Lets you set up the information for a job. See "Setting Up a Job" on page 30. *f* INSTALL: Guides you through the steps for aligning and performing follow-up Extended Installation Verification (EIV) for each ODU.1 Getting Started AIM User's Manual Standby Mode You can place your AIM in a power-saving state called Standby mode. Standby mode lets you turn off the AIM display and other features to extend the charge of the battery. You can quickly exit Standby mode and resume working on the screen where you left off. To enter Standby mode: 1 Press and hold the POWER button until the SHUT DOWN AIM screen appears. 2 Use c or d to highlight Standby and press OK. The meter enters Standby mode.1 Getting Started AIM User's Manual Power Management Your AIM is powered by an 8-cell 9.6 V 3.8 AH NiMH battery pack. The battery supplies power to the meter, as well as to the LNB and SWiM during installation of an ODU. When fully charged, the AIM's battery provides sufficient power to install satellite receiver systems in approximately six single-family homes on a single charge. Note: If you are using your AIM for the first time, you should fully charge the battery before use.1 Getting Started AIM User's Manual Battery Charging You can charge the AIM's battery from a power outlet using the AC power adapter provided with the meter. You also can charge the AIM in your vehicle while the vehicle is running using the vehicle power adapter. The AIM can be charged while it is powered off or while it is powered on, which allows you to use the AIM while it is charging. The battery icon in the top right of the AIM display indicates the power level of the battery.1 Getting Started AIM User's Manual Battery Replacement If necessary, you can replace the AIM's battery. To obtain a new battery, contact Trilithic. See "Spare Parts List" on page 20. You also can return your AIM to Trilithic Customer Service and request that the battery be replaced. See "Return Policy" on page v. Caution: ESD (electro-static discharge) can damage the meter. When removing and replacing the battery, observe proper ESD precautions to avoid static discharge.1 Getting Started Figure 6 AIM User's Manual 2 Carefully separate the front housing and the back housing, and place the unit on a flat work surface. Removing the Battery Cover 3 Using the Phillips-head screwdriver, remove the 4 screws on the battery cover and remove the cover. See Figure 6. Screws Battery cover Screws 4 Disconnect the battery connector from the circuit board. See Figure 7. Figure 7 Removing the Battery 5 Remove the battery from the back housing.1 Getting Started AIM User's Manual To replace the battery: 1 Place the new battery in the compartment in the AIM back housing with the battery wires routed as shown in Figure 7. 2 Reconnect the battery connector to the circuit board. 3 Replace the battery cover and 4 screws. Use the Phillips-head screwdriver to tighten the 4 screws. See Figure 6. 4 If the snap cover for the power input and USB connectors was dislodged during the process, replace it by inserting it in the slot as shown in Figure 7.1 Getting Started AIM User's Manual Getting Technical Support When you need instructions for using the AIM, your first resource for help is this manual. If you cannot find the information you need, you can: *f* Go to the DIRECTV Satellite Installer website or other websites provided by DIRECTV. DIRECTV websites contain product specifications and information, tips, release information, marketing information, Frequently Asked Questions (FAQs), bulletins and other technical information.1 Getting Started AIM User's Manual Safety Instructions When operating and maintaining the AIM meter, basic safety precautions should always be followed to reduce the risk of electric shock and injury to persons, including the following: *f* Warning! The AIM meter is capable of generating 21 volts. Never connect the AIM to devices that may be damaged by application of AC or DC voltage.



f Thoroughly read this User's Manual before using the meter.1 Getting Started AIM User's Manual Technical Specifications Frequency Range 250 MHz to 2150 MHz Signal Level Range -10 dbm to -69 dbm RF Input Connector Replaceable F-Type (2) Input Impedance 75 ohm Measurements Refer to the instructions in this manual. LNB Power Supply 13 volts / 18 volts SWiM Power Supply 21 volts Communications USB flash drive (Linux format only) Battery 8-cell 9.6 Volt 3.1 Getting Started AIM User's Manual Spare Parts List You can order the following parts for the AIM.2 Setting Up the Meter Before you use your AIM, you should enter registration information, including your ID, name, phone number, and company (see page 22). You also should review the meter's settings. You can change the following settings: Tip: To quickly adjust the setting for display contrast, display brightness, or volume, you can press Fn from any screen. On the UTILITIES window, use c or d to highlight the setting you want to change, then use e or f to select the new level. Press Fn to exit.2 Setting Up the Meter AIM User's Manual Entering Registration Information Before you use your AIM, you should enter registration information in the meter, including your name, ID, phone number, and company. To enter registration information: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Settings and press SELECT to go to the SETTINGS screen. 3 Use c or d to highlight Registration and press SELECT to go to the REGISTRATION screen.2 Setting Up the Meter AIM User's Manual 5 Use the alphanumeric keypad to enter the ID, name, phone number or company. 6 Press ENTER to save and return to the REGISTRATION screen. 7 Repeat Step 4 through Step 6 for each item on the REGISTRATION screen. 8 When you have finished entering registration information, press DONE to return to the SETTINGS screen. Note: To delete a character, press the Back button.2 Setting Up the Meter Tip: You can temporarily turn on or turn off the meter sound by pressing MUTE.



You also can press Fn to quickly adjust the volume setting. AIM User's Manual Changing Volume Setting You can change the volume setting for your AIM. To change the volume settings: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Settings and press SELECT to go to the SETTINGS screen, which shows the current settings for the meter.2 Setting Up the Meter Tip: You can press Fn to quickly adjust the display contrast or display brightness settings. pcap – programming essentials in python module 2 test answers AIM User's Manual Changing the Display Contrast or Brightness You can change the display contrast and display brightness settings for your AIM. To change the display contrast or brightness: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Settings and press SELECT to go to the SETTINGS screen, which shows the current settings for the meter.2 Setting Up the Meter AIM User's Manual Changing Time and Date Settings You can change the time and date settings of your AIM, including the format for the time and date. To change the time and date settings: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Settings and press SELECT to go to the SETTINGS screen, which shows the current settings for the meter.



3 Use c or d to highlight Time and Date and press SELECT to go to the TIME AND DATE screen.2 Setting Up the Meter AIM User's Manual 4 Use c or d to highlight the item you want to change (Time Format, Date Format, Time, or Date). Then press SELECT to go to the entry screen. 5 Use c or d to highlight the desired format setting, or use the numeric keypad to enter the time or date. [low fodmap food chart.pdf](#) Then press SELECT to return to the TIME AND DATE screen. 6 When you have finished changing time and date settings, press DONE to return to the SETTINGS screen.2 Setting Up the Meter AIM User's Manual Changing Automatic Timer Settings You can change the automatic timer settings for your AIM, including: *f* Backlight Timer: If no buttons have been pressed on the AIM after the specified time limit, the backlight on the display turns off. The backlight automatically turns back on when you press any button on the meter.2 Setting Up the Meter AIM User's Manual 3 Use c or d to highlight the automatic timer setting you want to change. – Highlight Backlight Timer to set the time limit for automatically turning off the display backlight after no buttons have been pressed. – Highlight Standby Timer to set the time limit for automatically entering Standby mode after no buttons have been pressed. – Highlight Shutdown Timer to set the time for automatically turning off the meter after no buttons have been pressed.3 Setting Up a Job Before you perform tasks for an installation using the AIM, you need to set up the information for the job. Setup tasks include: *f* entering the account number (see page 31) *f* entering notes (optional; see page 33) *f* selecting the ODU type (see page 34) *f* selecting the switch type (see page 35) *f* entering the zip code (see page 36).3 Setting Up a Job AIM User's Manual Starting a Job To start a job, enter the account number for the installation. The AIM stores information about the tasks you perform for the installation in records associated with the account number.



For the first job at an installation, you also set the ODU type, switch type, zip code, and notes either by accepting the default settings (based on the previous job), or by changing the default settings. See “Modifying the Setup for a Job” on page 33.3 Setting Up a Job Tip: The account number can be up to 22 digits. AIM User's Manual The MODIFY JOB SETUP screen reappears, showing the account number you entered and the default settings for: – ODU Type – Notes – Switch Type – Zip Code 4 To change the default settings, see “Modifying the Setup for a Job” on page 33. Note: The default settings are based on the values entered for the previous job.3 Setting Up a Job AIM User's Manual Modifying the Setup for a Job You can change the ODU type, switch type, and zip code settings for a new job or the current job from the MODIFY JOB SETUP screen. You also can add notes for the job to include key information about the job, such as the specific room of the installation. To access the MODIFY JOB SETUP screen, press SETUP from the HOME screen.3 Setting Up a Job AIM User's Manual ODU Type To change the ODU type for a job: 1 On the MODIFY JOB SETUP screen, use c or d to highlight ODU Type and press SELECT to go to the ODU TYPE screen. 2 Use c or d to highlight the ODU type for the job. [bourbaki theory of sets.pdf](#)

3 Press SELECT to return to the MODIFY JOB SETUP screen. Tip: You also can press the number for an option to highlight it. Tip: To scroll quickly through the ODU types, press PAGE UP or PAGE DN. To exit without saving changes, press CANCEL.3 Setting Up a Job AIM User's Manual Switch Type To change the switch type for a job: 1 On the MODIFY JOB SETUP screen, use c or d to highlight Switch Type and press SELECT to go to the SWITCH TYPE screen. 2 Use c or d to highlight the type of switch for the job and press SELECT. 3 If the ODU configuration includes a 95° ODU and a 6 x 8 multiswitch or SWIM, the 95° PORT CONNECTION screen appears. Use c or d to highlight the port to which the 95° ODU is connected.3 Setting Up a Job AIM User's Manual Zip Code To change the zip code for a job: 1 On the MODIFY JOB SETUP screen, use c or d to highlight Zip Code and press SELECT to go to the ZIP CODE screen. 2 Using the numeric keypad, enter the zip code for the job. Then press ENTER. The default azimuth, elevation and tilt coordinates for the job appear. Tip: To delete a character, press the Back button. You also can use e or f to navigate within your entry, or press CLEAR to delete the entry and start over.4 Installing an ODU The AIM guides you through the steps for aligning and performing follow-up Extended Installation Verification (EIV) for each ODU. Aligning the ODU The tasks for aligning an ODU vary depending on the type of ODU. All ODU types require coarse adjustments to be made in the azimuth and elevation directions. The 95° ODU also requires an adjustment in the tilt direction.4 Installing an ODU AIM User's Manual The table below indicates which tasks need to be performed for each ODU. When an installation includes two ODUs, you must perform the installation tasks for each ODU. The AIM Install feature guides you through the tasks based on the selected ODU. When using the AIM to align an ODU, refer to the appropriate sections for assistance: *f* “Task A. Installation Setup” on page 39 *f* “Task B. [gebemu.pdf](#) Coarse Azimuth Adjustment” on page 40 *f* “Task C.4 Installing an ODU AIM User's Manual Task A. Installation Setup To perform the installation setup: 1 Start the job for the installation (“Starting a Job” on page 31). 2 From the HOME screen, press INSTALL. The PRE-CONFIGURE ODU screen appears showing the default azimuth and elevation coordinates for the job. If appropriate, the default tilt coordinate also appears. 3 Perform the ODU site survey.4 Installing an ODU AIM User's Manual Task B. Coarse Azimuth Adjustment To perform the coarse azimuth adjustment: 1 While monitoring the signal power bar on the COARSE AZ & EL ADJ screen, rotate the ODU on the mast in the azimuth direction until the maximum signal power is reached. 2 Lock down the mounting bracket collar on the mast. Note: “Lock” appears on the screen when the signal power is above the minimum level required to supply the IRD. Task C.4 Installing an ODU AIM User's Manual Task D. Tilt Adjustment (95°, 3-LNB, Slimline-5, and Slimline-5S (SWiM) ODUs Only) To perform the tilt adjustment: 1 Loosen the ODU's tilt lock-down screws. 2 While monitoring the Es/No bar on the TILT ADJ screen, slowly rotate the ODU around the tilt axis until the maximum Es/No value is reached. 3 Tighten the tilt lock-down screws. 4 Press NEXT to continue.4 Installing an ODU AIM User's Manual 6 Refer to the ODU's dial and use the AIM's numeric keypad to enter the number of turns indicated on the AIM screen. If it took four and a half turns to return to the reference value, enter 4.50. 8 Refer to the AIM screen and turn the elevation jack screw counterclockwise the number of turns indicated on the AIM screen. 9 Tighten the elevation lock-down screws.4 Installing an ODU AIM User's Manual Task F. Fine Azimuth Adjustment (Slimline ODUs Only) To perform the fine azimuth adjustment: 1 Loosen the ODU's azimuth lock-down screws. 2 Turn the ODU's azimuth jack screw counterclockwise 2 turns. 3 On the FINE AZ ADJ screen, press SET REF to set the reference value. The AIM sounds a confirmation tone and displays the reference value. [applied machine learning david forsyth.pdf](#) 4 Zero out the readout dial on the azimuth jack screw. Note: It will take around four turns to reach the reference value.4 Installing an ODU AIM User's Manual 8 Refer to the AIM screen and turn the azimuth jack screw counterclockwise the number of turns indicated on the AIM screen. 9 Tighten the azimuth lock-down screws. 10 Press OK and then NEXT to continue.4 Installing an ODU AIM User's Manual Performing EIV Following ODU Installation When you complete the alignment process for the ODU, the EIV AT ODU screen appears. You can: *f* immediately perform Extended Installation Verification (EIV) on the ODU that you just aligned. Follow the steps below. *f* if the installation includes two ODUs, you can press NEXT to return to the SELECT ODU screen and align the other ODU. *f* press DONE to return to the HOME screen and perform EIV later.4 Installing an ODU AIM User's Manual 2 On the EIV AT ODU RESULTS screen, review the results for all supported orbital slots and SWiM channels (if applicable). A satisfactory result is indicated by 9. A problem is indicated by X. [paper airplane instructions that go far if 9](#) appears for all supported orbital slots, the ODU alignment is acceptable. If X appears for an orbital slot, perform the following steps: a Press REPEAT EIV to confirm the problem.5 Performing EIV Extended Installation Verification (EIV) can be performed at any point in the installation to quickly confirm that the installation is satisfactory for all supported orbital slots. EIV is an easy way to pinpoint any potential problems with the installation. The AIM guides you through the steps for the testing. To perform the Extended Installation Verification (EIV): 1 Start the job for the installation (“Starting a Job” on page 31).5 Performing EIV AIM User's Manual If the installation includes two ODUs, the SELECT ODU screen appears. Use c or d to highlight the ODU for which you want to perform EIV and press SELECT to go to the EIV screen. 6 On the EIV screen, press RUN EIV and wait briefly for the results. Note: To add a note about the EIV, such as details about where the EIV is being performed, press NOTES. Then enter the note following the instructions on page 33.5 Performing EIV AIM User's Manual 7 On the EIV RESULTS screen, review the results for all supported orbital slots and SWiM channels (if applicable). A satisfactory result is indicated by 9. A problem is indicated by X. If 9 appears for all supported orbital slots, the ODU alignment is acceptable. [cotton yarn dyeing project report](#) If X appears for an orbital slot, perform the following steps: a Press REPEAT EIV to confirm the problem.6 Performing Other Network Tests If there is a problem with a DIRECTV installation, you can run network tests to help you troubleshoot the problem. These tests include: *f* In-line test (see page 51) *f* Satellite Tune test (see page 53) *f* SWiM LF Power test (see page 57) *f* Cable Resistance test (see page 59) *f* Transponder Survey (see page 61) The AIM guides you through the steps for each test.6 Performing Other Network Tests AIM User's Manual Performing an In-Line Test You can use the AIM's In-line test feature to help determine the cause of a problem in an installation. [32698218916.pdf](#) If X appears for an orbital slot, perform the following steps: a Press REPEAT EIV to confirm the problem.6 Performing Other Network Tests If there is a problem with a DIRECTV installation, you can run network tests to help you troubleshoot the problem. These tests include: *f* In-line test (see page 51) *f* Satellite Tune test (see page 53) *f* SWiM LF Power test (see page 57) *f* Cable Resistance test (see page 59) *f* Transponder Survey (see page 61) The AIM guides you through the steps for each test.6 Performing Other Network Tests AIM User's Manual Performing a Satellite Tune Test You can use the AIM's Satellite Tune feature to tune to any DIRECTV transponder. Connecting the AIM in different locations in the distribution network, you can progressively test each segment of the connection between the ODU and the IRD to locate a problem. [58020083284.pdf](#) To perform a Satellite Tune test: 1 Start the job for the installation (“Starting a Job” on page 31). 2 From the HOME screen, press TEST to go to the TEST screen.6 Performing Other Network Tests AIM User's Manual 5 Use c or d to highlight the location where you are testing. Example: To test between the ODU and the multiswitch, disconnect the cable connecting the ODU to the multiswitch and connect it to the AIM's ODU F connector. 6 Connect the AIM ODU F connector at the point in the distribution network where you want to test. 7 Press SELECT to continue. 8 If the installation includes two ODUs, use c or d to highlight the ODU to test and press SELECT to continue.6 Performing Other Network Tests AIM User's Manual 9 Use c or d to highlight the orbital slot to test and press SELECT to continue. Note: You also can use the keypad to enter the orbital slot number. 10 Use c or d to highlight the transponder to test. Then press SELECT and wait briefly for the results of the test. Note: You also can use the keypad to enter the transponder number. Use PAGE UP or PAGE DN to scroll quickly through the transponders.6 Performing Other Network Tests AIM User's Manual 11 On the SAT TUNE RESULTS screen, review the results of the test. The screen shows: – Power of the transponder signal (in dBm—power ratio in decibels of the measured power referenced to one milliwatt). – Measurement of the carrier-to-noise ratio, expressed as Es/No in decibels. – Frequency offset of the transponder signal from its expected frequency (in megahertz). – Indication as to whether the transponder signal is above the power lock threshold.6 Performing Other Network Tests AIM User's Manual Performing a SWiM LF Power Test You can use the AIM's SWiM LF Power test feature to determine whether there is a communications problem between the SWiM and the IRD. To perform this test, disconnect all IRDs in the distribution network, then connect the AIM in place of an IRD. The AIM determines whether the SWiM LF Power level is sufficient. To perform a SWiM LF Power test: 1 Start the job for the installation (“Starting a Job” on page 31).6 Performing Other Network Tests AIM User's Manual 6 On the SWiM LF POWER TEST RESULTS screen, review the results of the test. The screen shows whether the SWiM LF power level is sufficient. 7 Troubleshoot any problems following the instructions provided by DIRECTV. [ielts reading test.pdf file download](#) To repeat the SWiM LF Power test in case of a failure, press RETRY. 8 Press DONE to return to the TEST screen. [45199048663.pdf](#) Note: The SWiM LF POWER TEST RESULTS screen automatically updates to show the most recent test results.6 Performing Other Network Tests AIM User's Manual Performing a Cable Resistance Test You can use the AIM's Cable Resistance test feature to help determine whether there is a problem with a cable used in the distribution network. To complete this test, you must use the 25 Ω Cable Test Load (provided with the AIM). By placing the Cable Test Load on the end of a cable, you can determine the resistance value for the cable. A high resistance value indicates that the cable may have been inadvertently cut.6 Performing Other Network Tests AIM User's Manual 6 Connect the Cable Test Load to one end of the cable you want to test. Then connect the other end of the cable to the AIM ODU F connector. 7 Press NEXT and wait briefly for the results of the test. Note: If a message appears stating that DC voltage was detected, the cable is not connected to the Cable Test Load. Make sure you are testing the appropriate cable, then press NEXT to continue the test.6 Performing Other Network Tests AIM User's Manual Performing a Transponder Survey You can use the AIM's Transponder Survey feature to record the signal power, carrier-to-noise ratio (ES/No), frequency offset, and lock status for transponders that can be received using the selected equipment. This can help to determine the location of a problem for an installation.6 Performing Other Network Tests AIM User's Manual 5 Use c or d to highlight the location where you are testing. Example: To test between the ODU and the multiswitch, disconnect the cable connecting the ODU to the multiswitch and connect it to the AIM's ODU F connector. 6 Connect the AIM ODU F connector at the point in the distribution network where you want to test. 7 Press SELECT to continue. 8 If the installation includes two ODUs, use c or d to highlight the ODU to test.6 Performing Other Network Tests AIM User's Manual 9 Press RUN TR SURVEY to start the test. The screen indicates each orbital slot and transponder as they are scanned. Note: To add a note about the transponder survey, such as details about where the survey is being performed, press NOTES. Then enter the note following the instructions on page 33. 10 When the scan test is complete, press VIEW to go to the TRANSPONDER SURVEY RESULTS screen.6 Performing Other Network Tests AIM User's Manual 11 Use c or d to review the results of the test. The screen shows the following information for each transponder: – Power of the transponder signal (in dBm—power ratio in decibels of the measured power referenced to one milliwatt). – Measurement of the carrier-to-noise ratio, expressed as Es/No in decibels.7 Managing Records The AIM stores information for each account, including the setup information for the test records (page 67) *f* data records (page 68). These records are stored in log files and survey files. *f* A log file contains records of all types. Select a log file to view setup information, as well as results from an EIV or Transponder Survey.7 Managing Records AIM User's Manual Setup Records A setup record is generated each time the setup information is updated for the account or an EIV or Transponder Survey is performed. This record shows the new setup information (including ODU, switch, and zip code), as well as the time and date when the change was made or the test was performed. User Records A user record is generated each time the registration information is updated for the AIM or an EIV or Transponder Survey is performed.7 Managing Records AIM User's Manual Data Records Several data records are generated each time an EIV or Transponder Survey is performed. Data records show the detailed test results for individual transponders and SWiM channels (if applicable). Two examples are shown.7 Managing Records AIM User's Manual Viewing Records You can view all records generated for each account number. To view records: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Records and press SELECT to go to the RECORDS MAIN screen. 3 Use c or d to highlight View Records and press SELECT to go to the VIEW RECORDS screen. 4 Use c or d to highlight the log file or survey file that contains the records you want to view and press SELECT.7 Managing Records AIM User's Manual 5 If you selected a log file, use c or d to highlight the record that you want to view and press SELECT. [hola vpl apk windows 10](#) Tip: Use PAGE UP and PAGE DN to scroll quickly through the records. The record you selected appears. (See “Understanding Records” on page 66 for more information on record types.) You can press NEXT RECORD or PREV RECORD to go to the next or previous record in the log file.7 Managing Records AIM User's Manual 6 If you selected a record from a survey file, the VIEW SURVEY INFO screen appears. You can press NEXT to view the data record for the Transponder Survey on the VIEW SURVEY DATA screen. Tip: Use PAGE UP and PAGE DN to scroll quickly through the test results. 7 Managing Records AIM User's Manual 7 If you selected a record from an EIV file, the VIEW EIV INFO screen appears. You can press NEXT to view the data records for the EIV on the VIEW SUMMARY EIV DATA screen, VIEW EIV SWiM RESULTS DATA screen (SWiM installations only) and VIEW RAW EIV DATA screen (SWiM installations only).7 Managing Records AIM User's Manual 8 To view another record, press DONE to go to the VIEW RECORDS screen and select another record. Deleting Records You can delete a single log file or survey file, or all record files for all accounts. To delete records: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Records and press SELECT to go to the RECORDS MAIN screen. 3 Use c or d to highlight Delete Records and press SELECT to go to the DELETE RECORDS screen.7 Managing Records AIM User's Manual 4 To delete a single record file, use c or d to highlight Single Record File and press SELECT. Go to Step 5. To delete all record files, use c or d to highlight All Records and press SELECT. A message appears to confirm the deletion. Go to Step 6. 5 Use c or d to highlight the log file or survey file that you want to delete and press SELECT. [electrical testing and commissioning interview questions.pdf](#) A message appears to confirm the deletion. Tip: Use PAGE UP and PAGE DN to scroll quickly through the record files.7 Managing Records AIM User's Manual Transferring Records You can transfer records from your AIM to a PC using a USB flash drive. You also can transfer records from a USB flash drive to the AIM. You can transfer a single log file or survey file, or all record files for all accounts. To transfer records: 1 Press CONFIG to go to the CONFIGURATION screen. 2 Use c or d to highlight Single Record File and press SELECT. Go to Step 7. To transfer all record files, use c or d to highlight All Records and press SELECT. Go to Step 8. 7 Use c or d to highlight the log file or survey file that you want to transfer and press SELECT.8 Tip: To view the current AIM firmware version, press CONFIG to go to the Configuration screen. Then use c or d to highlight Firmware Versions and press SELECT. Updating the Meter You can update your AIM as new features become available. [manual del lancero](#) You can update the AIM application, the AIM's database (which includes reference information used by the AIM), or both the application and database. When you update the meter firmware, you must plug the AIM into a power outlet using the AC power adapter.8 Updating the Meter AIM User's Manual 5 Insert the USB flash drive that contains the firmware upgrade in the appropriate USB connector on the meter. Wait for 15 seconds, then press OK. The firmware update process begins. [applied partial differential equations 5th edition haberman.pdf](#) A message appears when the firmware update is complete. 6 Press OK to turn off and restart the meter. After the meter turns on and the HOME screen appears, you can remove the USB flash drive from the meter's USB connector.A Glossary azimuth The angular distance (side to side) from true north along the horizon of an ODU to a selected satellite. BBC B-band Converter A Ka-band RF converter that allows viewing of high definition channels with some IRDs. carrier-to-noise ratio (Es/No) A measure of the received carrier strength relative to the strength of the received noise, which is an indication of the quality of the signal (in dB).A Glossary AIM User's Manual multiswitch Device that splits up the satellite feed without compromising quality to support multiple IRDs. ODU Out-Door Unit Term used to collectively refer to the satellite equipment, including the satellite dish, that is placed outside a building, orbital slots The location of geostationary satellites around the globe. signal power A measure of the strength of the radio frequency signal being received from a selected satellite transponder.B Index Numerics 95° PORT CONNECTION screen, 35 A ACCOUNT NUMBER screen, 31 AIM buttons, 5, 8 Cable Test Load, 7, 20, 59 carrying case, 7, 20 display, 8 display settings, 25 entering Standby mode, 11 F connectors, 5, 20 features, 1, 5 power adapters, 7, 13, 20 power-saving features, 12, 28 restarting, 11 turning off, 11 turning on, 10 USB flash drive, 7, 20, 75, 77 volume, 24 aligning an ODU, 37 automatic timer settings, changing, 28 azimuth adjustment coarse, 40 fine, 43 B backlight, 28 BACKLIGHT TIMEAIM User's Manual charging the meter's battery, 13 checking the current firmware version, 77 COARSE AZ & EL ADJ screen, 40 COMPANY screen, 23 CONFIGURATION screen, 22, 24, 25, 26, 28, 69, 73, 75, 77 CONTRAST screen, 25 D DATE FORMAT screen, 27 DATE screen, 27 DELETE RECORDS screen, 73 deleting records, 73 display changing the brightness setting, 25 changing the contrast setting, 25 overview, 8 E EIV performing, 45, 47 viewing results, 46, 49, 69 EIV AT ODU DETAILS screen, 46 EIV AT ODU RESULTS screen,AIM User's Manual J jobs entering notes, 33 entering the account number, 31 entering the ODU type, 34 entering the switch type, 34 entering the zip code, 36 L log file, 66 M MEASUREMENT LOCATION screen, 47 MODIFY JOB SETUP screen, 31 N NAME screen, 23 navigation, 9 NOTES screen, 33 O ODU TYPE screen, 34 ODUs aligning, 37 coarse azimuth adjustment, 40 coarse elevation adjustment, 40 fine azimuth adjustment, 43 fine elevation adjustment, 41 installing, 37 orbital slots, 38 performing EIV, 45, 47 preAIM User's Manual S safety instructions, 18 SAT TUNE RESULTS screen, 56 SAT TUNE screen, 53 Satellite Tune test performing, 53 viewing results, 56 saving power, 12, 28 SELECT CONFIGURATION screen, 47 SELECT ODU screen, 39, 48 setting the reference value, 41, 43 setting up jobs, 30 meter, 21 SETTINGS screen, 22, 24, 25, 26, 29 settings, changing, 21 setup information, 30 SHUT DOWN AIM screen, 11 SHUTDOWN TIMER screen, 29 softkeys, 8 spare parts, 20 Standby mode, 11, 28 STANDBY TIMER screen, 29 starting a JobAIM User's Manual V VERIFY AZ & EL ADJ screen, 41 VIEW EIV INFO screen, 72 VIEW EIV SWiM RESULTS DATA screen, 72 VIEW RAW EIV DATA screen, 72 VIEW RECORDS screen, 69 VIEW SUMMARY EIV DATA screen, 71 VIEW SURVEY INFO screen, 71 viewing Cable Resistance test results, 60 EIV results, 46, 49, 69 In-line test results, 52 records, 69 Satellite Tune test results, 56 SWiM LF Power test results, 58 Transponder Survey results, 64, 69 VOLUME screen, 24 volume setting, changing, 24 Z ZIPPage 2AIM User's ManualGetting Technical Support 17Safety Instructions 18Technical Specifications 19Spare Parts List 20Setting Up the Meter 21Entering Registration Information 22Changing Volume Setting 24Changing the Display Contrast or Brightness 25Changing Time and Date Settings 26Changing Automatic Timer Settings 28Setting Up a Job 30Starting a Job 31Modifying the Setup for a Job 33Notes 33ODU Type 34Switch Type 35Zip Code 36