Dm 6400 User Manual

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- **sperry dm 6400 user manual, dm 6400 user manual, sperry dm 6400 user manual.**

Voltage, ohm, and amperage readings agree with my other meters and known sources so its at least accurate enough for noncritical use.Ill give it the bennefit of a new battery before I throw in the towel, but if If the diode test does not work at more than 1.5v with a new battery I will return it and buy something different. Update put a new highquality battery in the meter and the diode test function still fails fo output more than 1.5 volts and is unable to test LEDs, I like the form factor and large display, but for my uses the diode test is an important feature and as such I will be returning the meter.This company is selling junk. Battery installed Arrived non functional. Limited instruction which states no batteries installed., you have to down load and print your own from the internet. I checked battery compartment and found batteries. They were install with side contact flatten to the bottom of compartment. Repair problem and meter works sort,.Case is not flat. kind of undulating thin and thick. Pressing the fat part and some times makes the meter work and or changes setting. What is sad is the O was replace a meterDM1 made by this company decades ago it was made in America and is of excellent quality it still works, although I have lost the owner manual just weeks. Wanted a new manual which is not on the internet. This new meter DM2 is a total waste of money. Note to the CEO of this company.Put Americans back to work so that they can buy a product that is of good quaility. And make a good meter.I use it to repair large appliances and tune up AC. I determine the setting I use and it has not let me down. Has a big screen so this old blind tech can see it. This meter travels in a tool backpack and has survived the rude use it gets. I pull it out to use an average of ten times a day and every time it has given accurate readings. All of my Sperry meters have been worth mentioning.http://auto-rujo.com/images-editor/canon-mp390-manual.xml

The features listed on Sperrys web site and labeled on the device shown in the photo do not match

the actual product being shipped.It also would not switch to the ohms function and the beep feature did not work. I returned it and the Seller refunded my payment. Thank you for being a StandUp Company.This one fits the bill. Its light weight and very reliable.Thats why I got these for use. Thats why I got these for use in a school where the students are learning how to use an ammeter and always blow fuses that are a pain to change.Its really a great tool, with a lot of features comparable to more highend names, like Fluke. Seems durable feels wellmade, and functions as advertised. Price cant be beat for a fullfeatured multimeter.The problem with this tool come from the fact that the current measurement is limited to 10 amps and the 5 min.Whats not to likeIn order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. All rights reserved. This document may not, in whole or in part, be copied, photocopied, reproduced and translated, or reduced to any electronic medium or machinereadable form without prior written consent from Adtec Digital. Every effort has been made to ensure the accuracy of this manual. However, Adtec Digital makes no warranties with respect to this documentation and disclaims any implied warranties of merchantability and fitness for a particular purpose. Adtec Digital shall not be liable for any errors or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual or the examples herein. The information in this document is subject to change without notice. Trademarks DPI1200 is a trademark of Adtec Digital. RGB BNP is a trademark of RGB Networks. Moto rola CherryPicker is a trademark of ARRIS Group, Inc. Other product and company names may be trademarks or registered trademarks of their respective companies.

Technical Support plans do not include customer training programs. Programs incorporating customer training are defined in the Training Services Policy. Support Requests can also be submitted online. All inquiries will be processed in the order in which they are received and by the criteria outlined in the Call Response Order. Inquiries and inquiry responses made after 500 PM CST weekdays, Saturday, Sunday or on an Adtecrecognized holiday will be processed the next business day in the order received. Description of the Problem Please include a detailed description of the problem. Include the approximate time and day the problem occurred, the spot ID of the material being inserted and what the operator reported about the incident. It is also helpful to note any recent changes to the system. More information is always better than too little information. Your Contact Data Please include contact information so we can reach you to discuss how to fix the problem, additional troubleshooting steps that are required or to gather more complete information regarding the problem. Please include your facility name or call letters, your name, title, email address, telephone number, hours of work, and other contact persons if you are not available. Advanced Support Plans In addition to our basic Inquiry Response Policy, Adtec offers two advanced levels of priority inquiry support StandardPriority and Priority24. StandardPriority support is included with the Adtec Certified Operator ACO training. Contact Adtec Sales to upgrade your current support plan. StandardPriority Support Plan Customers can improve upon our normal call processing times and can expedite inquiry support responses through our subscription StandardPriority service plan. Telephone inquiries received by 400 PM CST on weekdays excluding Adtec holidays are guaranteed a sameday telephone response. However, inquiry responses may be made after hours until 800 PM CST.

Email and fax inquiries are limited in scope to normal business hours, excluding holidays. Priority 24 Support Plan 24 Hour In addition to our StandardSupport plan, after hours, weekend and holiday support is available with the Priority24 support plan. This plan is a subscription only service available for service inquiries 24 hours a day, 7 days a week. Calls after 500 PM will be forwarded to a Customer Services representative on call. Electrical Device Compliance Notices Safety Warnings and Cautions For your safety and the proper operation of the device This unit must be installed and

serviced by suitably qualified personnel only. Do not break the warranty seals on the device or open the lid. Only approved service technicians are permitted to service this equipment. Disconnect all power before servicing the unit. Do not expose this device to rain or other moisture. Clean only with a dry cloth. If not installed in an equipment rack, install the product securely on a stable surface. Install the product in a protected location where no on can step or trip over the supply cord, and where the supply cord will not be damaged. If a system is installed in a closed or multiunit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Consideration should be given to installing the unit in an environment compatible with the maximum recommended ambient temperature of 50 degrees Celcius 122 degrees Fahrenheit. Install the unit in a rack so that the amount of airflow required for safe operation is not compromised. Mounting of the unit in a rack should be such that no hazardous condition is achieved due to uneven mechanical loading. Use only a grounded electrical outlet when connecting the unit to a power source. Reliable earth grounding of rackmount equipment should be maintained. Particular attention should be given to supply connection other than direct connections to the branch circuit e.g.

, use of power strips. Compliance Notices FCC Note This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Warning Changes or modifications to this device not expressly approved by Adtec Digital could void the user’s authority to operate the equipment. Industry Canada This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions1 this device may not cause harmful interference, and 2 this device must accept any interference received, including interference that may cause undesired operation. Adtec Digital cannot accept responsibility for any failure to satisfy the protection requirements resulting from a user modification of the product. Chapter 1 Introduction Product Overview Designed to concurrently insert up to twelve MPEG2 or AVC programs into a digital cable or television service, the Adtec DPI 1200 Ad Server offers the absolute highest transport standards required for broadcasting.

From local storage or network attached storage, the DPI1200 imports programs to its core, processes and multiplexes them in preparation for their delivery via ASI or IP to a single or multiple ad splicers. The DPI1200 seamlessly interfaces with Adtecs adVantage TM Enterprise Management Solution allowing it to operate with the industryleading Adtec Duet TM Ad Inserter. The DPI1200 and Duet work together to provide analog and digital tier ad insertion and interoperate with ad insertion systems from CCOR and SeaChange. MPEG2 Layer 1, MPEG2 Layer 2 and AAC Audio compliant. Optional ASI Redundancy Module. DPI1200 Stream Additional Program Insertion License for one stream on the DPI. Each unit will support upto 10 additional SD or 2 HD Insertion Channels consult sales rep.Benefits Twelve Concurrent Inserts The DPI1200 delivers ads to seamless backtoback splicing on twelve unique programs. Its ability to stitch together the media and maintain broadcast transport standards is unmatched by the competition. Gigabit Ethernet Input The DPI1200 has been designed to incorporate a GIGE Ethernet interface to provide rapid media loading or connection to an industry standard Network Attached Storage NAS array. This flexible

standardsbased interface affords rapid and economical storage capacity growth and will be a future feature of this device. RAID storage The DPI1200 includes 750 GB of RAID storage. Add extra storage or share storage between multiple DPI's using industry standard Network Attached Storage NAS High Availability Output The DPI1200 provides Gigabit and three mirrored DVBASI Outputs. This is ideal for interfacing with multiple Ad Splicers concurrently without external distribution hardware. Absolute Control Controlling and configuring the DPI1200 is userfriendly. Whether using the integrated front panel keypad and LCD, onboard webbased application, SNMP or Serial Terminal, the DPI1200 responds rapidly and reliably to the desires of the operator.

Traffic and Billing Interface The DPI1200 provides a native Traffic and Billing interface. Chapter 2 Getting Started Front Panel The Function Buttons and Directional Keypad of the DPI1200 are used to configure and monitor the channel configurations and output of the device. Panel Diagram Front Panel LEDs As illustrated in the diagram above, LED indicators are grouped on the DPI1200 front panel in two sections. The Function indicators describe the media insertion actions being performed on the units outputs. The Operation indicators describe the physical operations of the DPI1200 unit. If that is the case, note that all of the configurations have been returned to factory defaults including Network configurations. To reapply network configurations simply press the Down arrow when in this state to navigate through the network menu. In the event that you see a similar message followed by a phone number, this indicates that the Temporary keys on the device have expired and you should contact your sales representative. Programming Function Buttons and Arrow Keys The DPI1200 Ad Server has an LCD display on the front panel. Unit Security Rules The DPI1200 is always logged in on startup. If the device has logged out due to accident, or a login duration timer being set see below, you will need to log back in. To log in from a loggedout status follow the key sequence below. This setting allows you to specify a time frame in which the unit will automatically log itself out if it receives no control inputs via the front panel or API session. Possible Values 0 Zero The unit will not autologout 19 The number of minutes until log out if no input is received. Main System Banner Menu The main banner menu is a noneditable display. It displays the current installed and applied firmware version the unit is running as well as the product name. Key Functions While in the main menu, the following navigation keys have special meaning in the operation of the DPI1200.

User must login to change values. Cue Menu The following diagram illustrates the structure and flow of the Cue Menu on the Adtec DPI1200 device. Back Panel Diagram The back panel contains the ports and connection points for the device. The program is optimized to work with the following browser versions Firefox 3.5 recommended and higher MS Internet Explorer 8.0 and higher Safari 3.0 and higher Google Chrome 5.0 and higher Note for Safari users The program is designed to use the Bonjour Zero Configuration Protocol. Select the device to point the browser to that devices IPA. Logging In Access the application by pointing your web browser to the units IP address. The application has two operating windows, the Status Window and the Main Window Status Window The Status Window is fixed on the lefthand side of the screen it will display regardless of what function is being displayed in the Main Window. The current status parameters of the units are always in view and are updated in real time. Main Window The Main Window is used to access the devices configurations and operating settings. Upgrading your device To upload new firmware versions, click on the button in the top navigation bar next to Log Out. A popup screen will allow you to browse for the firmware file by clicking Upload within the popup screen. After the new version is uploaded, Click to extract the firmware. It will then be available under Installed Versions. Once you have the version you wish to use in the Installed Versions list, you can select into it by clicking the select button. The unit will reboot and come up running in the new version. You may then drag and drop the firmware file into the hd0 folder. 3 Open a Telnet session and enter the IP address of the unit you are going to update. See earlier instructions on setting the IP via the front panel. Using a terminal window, complete the following Step Action 1 Type telnet x.x.x.x in a terminal window,

without quotes, where x.x.x.

x is the IP address of the unit. 2 Press. 3 When prompted for a username, enter adtec. 4 When prompted for a password, enter none. For the DPI1200 device, there are specific commands for the DPI Channels and the units operating system. Each has a unique way of accepting commands. If using telnet is your preferred method of communication to your device, familiarize yourself with the API commands and their respective command handlers. For more information on this, point your browser to the IPA of your unit and look through the API notes that are described for the device. How to Connect via FTP FTP connections can be made to the adtec device using any ftp client. Host Default Username adtec Default Password none Port 21 FTP is only useful for collecting logs from the device. Media Encoding Guidelines All media used for insertion should conform to SCTE guidelines for DPI insertion. The encoded material should be in a transport stream format at a constant bit rate. All audio should be encoded to match that of the insert stream. How to Use API Commands The Adtec DPI1200 device is unique in that it handles upto twelve different streaming channels for Ad Splicing. To accommodate commands for controlling each channel, you will need to specify which channel you are working with for each command you issue. Most of the operational features of the Adtec DPI1200 Ad Server can be controlled via telnet using Adtecs API commands. A reference of the API commands applicable to the DPI1200 can be found on our website or on the Help Tab of the Web UI and select the API Notes Link. Setting Time Zone and Daylight Savings This allows the user to properly configure or view the Timezone offset and Daylight Savings time changes for the DPI1200 Ad Server in an API telnet command window. Instructions on connecting to the DPI with telnet can be found in the HowTo Guides.

The start field is when Daylight Saving Time goes into effect and the end field is when the change is made back to standard time. The day d must be between 0 Sunday and 6. The week w must be between 1 and 5; week 1 is the first week in which day d occurs, and week 5 specifies the last d day in the month. The month m should be between 1 and 12. The time fields specify when, in the local time currently in effect, the change to the other time occurs. An example, here is how you would specify the Eastern time zone in the United States, including the appropriate Daylight Saving Time and its dates of applicability. The normal offset from UTC is 5 hours; since this is west of the prime meridian, the sign is negative. However, due to software, firmware and hardware changes, there may be some degree of difference between what is represented here and what is displayed on your equipment. Splicer Setup and Configuration The DPI1200 Ad Server works in conjunction with a various network splicers for seamless commercial insertion. Appropriate licenses will need to be purchased from your Terayon sales representative or reseller. To check the DM to make sure it has the needed ad insertion license keys, you will need to log into the web interface and select Accounts from the top menu bar. This page will have a section with the heading Product Licenses. If you do not see a line item called Ad Insertion, MPEG2 Ad Insertion or MPEG4 AVC Ad Insertion or the existing license has already expired, you will need to contact Motorola or your distributor for licensing service. Because each license key is linked to a specific Data Flash, you will need to look up the serial number for the Data Flash in your DM CherryPicker. Illustration below Time Sync Per SCTE30 protocol, Time synchronization is required due to the passing of time between the Server and the Splicer.

By having the machines synchronized, time can be passed between the two machines without concern for normal network delays keeping the splicing very accurate. One possible method is to use Network Time Protocol NTP to keep the Server and the Splicer in synchronization. A network common host system NTP server could be used since this will also typically exist in a cable headend that has a network infrastructure. The DPI1200 can be used as an NTP server if an NTP network is not available. Please refer to the NTP Menu options under the System Menu description in Chapter 3 and additional time configurations later in this chapter. To configure the DM CherryPicker to time

sync from the DPI1200, select Configure from the DM Network CherryPicker Desktop menu bar. Select the Controller from the configuration tree. The controller information displays on the right side of the screen along with the NTP Configuration options. illustrated figure below Note NTP sync may take up to 30 minutes to be effective Configuring the splicer for ad grooming Note Terayon does not support ad insertion on loopback input modules. source DM Network CherryPicker 4.0 User Guide 2004 Physical Connections ASI Connection of the DPI1200 Ad Server will need to occur on one of the four inputs of a DVBASI Input Module on the back of the CherryPicker using a coaxial cable with BNC connectors. If the connection is recognized, the corresponding LED with the same number will light up Green. 4 port DVBASI Input Module IP Connection of the DPI1200 will need to be on the same IP Ingest Network as any other IP Input Stream going to the DM6400. A standard GigE Ethernet Cable will be used. Note Please note all physical connections and their labels. This information is needed to configure the DPI properly to work with the attached splicer. Appropriate licenses will need to be purchased from your RGB sales representative or reseller.

To configure the RGB BNP to time sync from the DPI1200, select the Configuration Tab from the BNP Element Manager window, and select the Global subtab. Illustrated below Set the NTP Address 1 to that of the NTP Server or the connected DPI1200 Ad Server. Note You must have the NTP Server or DPI up and running prior to booting the BNP. Configuring the splicer for ad grooming Physical Connections ASI Connection of the DPI1200 Ad Server will need to occur on one of the six ports available using a coaxial cable with BNC connectors. The number of ASI ports in your BNP chassis depends on the number of ASI cards that are installed. Up to three ASI cards can be installed, each with six ports. See illustrated example below The coax cable will connect to one of the available ASI port connections on an available card. If the connection is good, the corresponding LED with the same number will light up Green next to the port with the corresponding port number. IP Connection of the DPI1200 will need to be on the same IP Ingest Network as any other IP Input Stream going to the RGB BNP or attached directly to the IP Input Card Typically Labeled E using an SFP Optical Module Adapter. This is set from the Element Manager by selecting the Configuration Tab then ASI or GigE Ports subtab. Following illustration Grooming your ads into the channel Once you have properly configured your splicer with all of the channels you are wanting to output and the DPI has been configured with the proper IP and channel information matching that of the splicer, the image icon associated with your program contained in your output transport stream will change. The new icon will have an arrow pointing toward the program name. illustration below RGB Networks is a registered trademark of RGB Networks Inc. The action to achieve a function similar to playspot is to trigger an event manually. The content being played is according to the preprogrammed CCMS schedule.

Each record is terminated by a carriage return and line feed. Each record will all be at least 77 bytes in length. The fields of each record are determined by its byte position. Each field is separated by a space character. All times are formatted in military time.Manual CCMS Schedule Creation The simplest way of creating a CCMS schedule is by using Notepad. Hexadecimal. DD Represents day of month of intended airing. Range 0131. Example 25. CC Numeric identifier or Channel ID. Range 0199. HHH Numeric identifier or Headend ID. Each line of LOI refers to one event for DPI1200 0925 2 September 25th the date of the event which has to match the first three characters of the schedule file name. This necessitates the next two settings. 0800 4 800 am is the earliest possible time when the 815 am event will be occurred. It is to prepare the DPI1200 to open up a time window for receiving any possible trigger to start this line of event. For this event, the time window will be opened from 800 am till 900 am. By default CNVP is set to NOVAR, last 8 characters are used alpha numeric field. The first three characters are reserved and always show zeroes. Any file names shorter than 8 characters have to be filled up with zeroes prefix to fill this field by 11 characters. If CNVP is set to RAW, then all 11 characters in alphanumeric format will be used but then, the mpeg files should not contain any extension 0000 13 Status code such as 0001 means aired successfully

will be generated automatically to the 92502088.VER file. More status code information can be found in Appendix E of the adManage Manual. It can be downloaded from the Support Section of our web page at www.adtedigital.com Configure each channels scheduling identifier, load schedules and media. The channelheadend scheduling identifier is used to map this channel to one in your traffic system. It should be in the form CCHHH, where CC is the channel identifier from 0099 and HHH is the headend identifier from 000999.

The name of the schedule should be in the format MDDCCHHH.SCH, where m is a single letter representing the month 19, A, B, C, dd is the day of the month 0031, and CCHHH is the scheduling identifier. CCMS Verification Status Codes Status Code Definition Possible Cause 0001 Aired Successfully 0002 Generic Failed to Air The scheduled event was not run by the DPI. All events are marked with a 0002 at the beginning of the broadcast day. The actual played length will be updated in the VER file for partial verifications. 0013 Failed, Timeout The break was closed before spot could be aired. Problem with media to be inserted. Timing issues with stream to be spliced 0020 Failed, No Ad Copy in Inserter The DPI did not have the scheduled ad copy to play. Causes include Material not copied into adManage MasterVideoLibrary2. The material is not in the inserter because of a communication error. The material is on the headend PURGE list see Content Management Purge. 0023 Failed, No Cue in Window No cue was received in the scheduled window. See the chapter on Cue Methods for more information Triggering Explained DTMF Tone Triggers DTMF tone board is an option for DPI1200. The Integrated Satellite Receiver Decoder IRD typically has a DTMF port which provides audio cue tones. Alternately, some networks use the secondary audio SAP channel to provide the cue tones. To configure Netset, please refer to NETSET MENU. There are a total of 12 GPI General Purpose Input connectors, each corresponding to its channel number, for instance, GPI 01 is the connector is for channel 01. To configure GPI port, refer to the CUE MENU section. There is one General Purpose Output GPO connector. To configure GPO port, refer to the CUE MENU section. SCTE35 Triggers A trigger embedded into the original network signal passed directly to the Splicer. It is detected and triggered by the Splicer to the DPI.