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You can read the recommendations in the user guide, the technical guide or the installation guide for MOTOROLA DCX3400. You'll find the answers to all your questions on the MOTOROLA DCX3400 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MOTOROLA DCX3400**  
**User guide MOTOROLA DCX3400**  
**Operating instructions MOTOROLA DCX3400**  
**Instructions for use MOTOROLA DCX3400**  
**Instruction manual MOTOROLA DCX3400**



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**Manual abstract:**

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturers instructions. @@@@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. @@Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer. Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. . . . **IMPORTANT SAFETY CONSIDERATIONS** The DCX3400 set-top requires careful handling to avoid potential damage to its internal hard disk drive or the loss of recorded data.

Be sure to follow these requirements during transportation and installation. The plug is the main disconnect device. It shall remain readily accessible and operable. @@@@@@@Install the terminal away from heat sources such as radiators, heat registers and stoves. Installation of the terminal near consumer electronics devices, such as stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed 40° C (104° F).

Place the terminal on a flat surface not prone to vibration or impact. Do not install the terminal in an area where condensation occurs. To prevent the temporary loss of guide data and cause a temporarily non-responding terminal, do not plug the AC power cord into a switched power outlet. To avoid shock and vibration damage to the internal hard drive, do not move the terminal while it is plugged in. To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting power before moving the terminal. . . . **FCC COMPLIANCE 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 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 set-top. Connect the equipment into an outlet on a circuit different from that to which the set-top is connected. Consult the dealer or an experienced radio/TV technician for help. Caution: Changes or modifications not expressly approved by Motorola for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. ii **FCC DECLARATION OF CONFORMITY** Motorola Inc., Home & Network Mobility, 101 Tournament Drive, Horsham, PA 19044, 1-215-323-1000, declares that the DCX 3400 set-top complies with 47 CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Canada Industry Canada (IC) This Class B digital device complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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iii **SOFTWARE LICENSE IMPORTANT: PLEASE READ THIS SOFTWARE LICENSE ("LICENSE") CAREFULLY BEFORE YOU USE ANY SOFTWARE, FIRMWARE AND RELATED DOCUMENTATION ("SOFTWARE") PROVIDED WITH MOTOROLA'S DIGITAL CABLE RECEIVER OR HOME THEATER SYSTEM (EACH SHALL BE REFERRED TO IN THIS LICENSE AS A "RECEIVER"). BY USING THE RECEIVER AND/OR USING ANY OF THE SOFTWARE, YOU INDICATE YOUR ACCEPTANCE OF EACH OF THE TERMS OF THIS LICENSE. UPON ACCEPTANCE, THIS LICENSE WILL BE A LEGALLY BINDING AGREEMENT BETWEEN YOU AND MOTOROLA. THE TERMS OF THIS LICENSE APPLY TO YOU AND TO ANY SUBSEQUENT USER OF THIS SOFTWARE. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS LICENSE (I) DO NOT USE THE SOFTWARE AND (II) RETURN THE RECEIVER AND THE SOFTWARE (COLLECTIVELY, "PRODUCT"), INCLUDING ALL COMPONENTS, DOCUMENTATION AND ANY OTHER MATERIALS PROVIDED WITH THE PRODUCT, TO YOUR POINT OF PURCHASE OR SERVICE PROVIDER, AS THE CASE MAY BE, FOR A FULL REFUND.**

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.... 16 Connecting Your DCX Set-top to an HDTV -- Alternate Audio .....

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.... 17 Connecting an A/V Receiver -- Audio.

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..dio L/R, Ethernet, USB, eSATA 1080p 24/30 video decode & output support 1 1 INTRODUCTION Front Panel 1 2 3 4 5 6 7 8 USB 2.0 High-Speed connector Cursor -- Menu navigation Select -- Selects menu options Power -- Turns the set-top on and off (standby) Menu -- Displays the menu Guide -- Displays the program guide Info -- Displays current channel and program information Format \* -- Change the video output format Channel -- Changes channel up or down \* Availability of certain features is dependent upon application support. 2 1 INTRODUCTION Rear Panel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Cable In -- Connects to cable signal from your service provider RF Out -- Ch 3/4 modulated audio/video (SDTV) to TV or VCR IEEE-1394 -- Audio and video device connection Video outputs / YPbPr -- Component video output (HDTV) Audio Out -- L/R audio (SDTV) Audio Out -- Variable L/R audio (SDTV) Digital Audio (Coaxial S/PDIF) -- Provides Dolby® Digital or PCM output Digital Audio (Optical S/PDIF) -- Provides Dolby® Digital or PCM output Video Out -- Composite Video (SDTV) S-Video -- Connects to S-Video (SDTV) input of TV or VCR M-Card -- Inserted M-Card HDMI -- High-Definition TV (HDTV) connector eSATA\* -- External Serial ATA disk interface USB\* 2.0 -- High-Speed peripheral device connection External IR Input -- Connects to a remote control set-top accessory cable Data test connector (service personnel only) Ethernet\* -- Network connection Power connector \* Availability of certain features is dependent upon application support. 3 2 OPERATION Turning Power On and Off Press POWER on the front panel or remote control to turn the DCX set-top on or off (standby). When using the remote control, be sure it is in cable mode by pressing CABLE before pressing POWER. When using the front panel please note that the front panel buttons are touch-sensitive, so simply touch the POWER icon to turn on the set-top. Changing Channels You can change channels in three ways: · · · Press CHANNEL + or on the front panel of the DCX set-top or the remote control to step through the channel selection.

Enter the number of the channel you wish to view using the number keys on the remote control. Select the channel in the Interactive Program Guide. Adjusting the Volume Press VOLUME + or on the remote control to adjust the volume.



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When you adjust the volume, the volume scale is displayed on the screen. Press MUTE on the remote control to toggle the sound on and off. For best audio quality when using the analog L/R (var.) volume controlled audio outputs, use the remote control to set the DCX set-top to approximately three quarters of the maximum volume level and then adjust the audio levels on external devices such as your TV or A/V receiver. When using the analog L/R (fixed) audio outputs or any of the digital audio outputs (HDMI, IEEE-1394, optical or coaxial digital audio) adjust the audio levels on your external device such as your TV or A/V receiver. You may also be able to program your remote to control the volume of your TV or A/V receiver directly (refer to the remote control instruction manual). Interactive Program Guide The Interactive Program Guide displays information about TV programs and enables you to access features such as Parental Control or Pay-Per-View.

Interactive program guides can vary with each cable service provider. Refer to the Interactive Program Guide's instruction manual for detailed instructions. 5

2 OPERATION Front Panel Format Button The Format button located on the front panel of the DCX3400 set-top allows you to quickly change the video output format used by the Component Video (YPbPr) and HDMI outputs. The DCX3400 set-top is capable of providing the following video formats on the YPbPr and HDMI video outputs: . . . High Definition 1080i (1920 x 1080 pixels) High Definition 720p (1280 x 720 pixels) Enhanced Definition 480p (720 x 480 pixels) Standard Definition 480i (720 x 480 pixels) The DCX3400 set-top is also capable of passing through High-Definition 1080p 24/30 (1920 x 1080 pixels) source content over the HDMI video output. The Format button is intended to allow you to select a video output format that is compatible with a connected display device. Some televisions may not support all four video formats listed above. The Format button provides an easy method for selecting an output format that is compatible with your television. Operation The Format button is intended to complement the User Settings Menu (see Configuring the Audio, Video, and Closed Caption Settings). It is not intended to replace the User Settings Menu. The User Settings Menu is the preferred method of optimizing the DCX set-top to operate with your specific television.

If you cannot get a video display when the DCX set-top is connected to your television via component video or standard HDMI cables, use the Format button to select a video output format that results in a viewable picture on the display screen. Once a viewable picture is available, please use the User Settings Menu to optimize the DCX3400 set-top display settings for your specific television. Video Format Indicators (Front Panel Display) The front panel display of the DCX3400 set-top is equipped with indicators to the right hand side of the display that are used to indicate the currently-selected video output format on the component video (YPbPr) and HDMI outputs. As the Format button is depressed, the front panel format indicators will change to illuminate the currently selected video output format in use by the DCX set-top. Note: There are some scenarios where the DCX set-top does not change the video output format if the Format button is depressed. In these scenarios, the DCX3400 set-top will flash the currently illuminated video format indicator on the front panel display. If this should occur, please use the User Settings Menu to make further changes to the video output settings of the DCX3400 set-top. Note: Availability of certain features is dependent upon application support. 6 2 OPERATION M-Card™ The M-Card is required to view cable television programs, previously recorded programs on the DVR, or interactive on-demand programs. The M-Card should not be removed.

7 3 DIGITAL VIDEO RECORDER (DVR) The DVR The DCX3400 set-top is equipped with an internal hard drive for DVR (Digital Video Recorder) functionality, which provides the ability to record both Standard-Definition TV (SDTV) and High-Definition TV (HDTV) programs. Storage time varies based on the video format and specific channel. DVR offers the ability to control your viewing experience by pausing (time shifting) live TV and providing trick playback modes (pause, fast forward, slow forward, fast rewind, slow rewind). You may experience a slight delay when switching between time-shifted and live TV. The DCX3400-M model also includes integrated MoCATM networking which supports whole-home DVR capabilities.

This feature extends the DVR experience to DCX3200-M or other compatible non-DVR set-tops with integrated MoCA, when enabled by application software. On your non-DVR set-top you can now view your DVR recordings, playback content, and set future recordings all from another room in your home. With the DCX3400 set-top, you can: Record Programming. The total hours of recorded content will vary based on the storage capacity of your specific DCX model and type of content (digital SD or HD) being recorded. Estimated Recording Hours Model Drive Size\* Standard Digital Channels 55 to 100 80 to 150 110 to 210 HDTV Channels 14 to 21 20 to 30 30 to 45 DCX3400 160 GB 250 GB 320 GB \*These capacities are based on recording digital MPEG-2 video.

A recording of a video program that is broadcast in digital MPEG-4 format requires approximately half the disk space. Maintain a Personal Program Library. Accessed by using the Interactive Program Guide (IPG). Control Live TV. Pause, rewind, and fast-forward live TV. Simultaneously Watch Two Programs. Watch two programs and easily switch between them using the swap key on your remote control. (Dependent upon program guide support and provided remote control.) Simultaneous Watch and Record. Record one program in the background while viewing another live broadcast at the same time.

Simultaneously Record Two Shows. Record two programs from two different channels at the same time. 9 3 DIGITAL VIDEO RECORDER (DVR) Simultaneously Record Two Shows and Watch a Recorded Program. Watch a program recorded on your DVR while recording up to two other programs at the same time. You can also easily switch from viewing the pre-recorded program and either of the programs you're recording. Play Recorded Programming On Networked Set-Tops In Your Home. Using integrated MoCA networking, DCX3400-M recorded entertainment can be accessed by other compatible non-DVR set-tops with integrated MoCA, when enabled by application software. 10 4 CONNECTING YOUR DCX SET-TOP Instructions and diagrams are included for the following connections: . . . High-Definition Television (HDTV) A/V receiver -- Audio Standard-Definition TV (SDTV) Standard-Definition TV (SDTV) and VCR/DVD Recorder A/V receiver, Standard-Definition TV (SDTV), and VCR/DVD Recorder Before you move or change components on your entertainment system, review the following: · For basic cable connections, use 75-ohm coaxial cables equipped with F-type connectors.



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27 6 ON-SCREEN GRAPHICS Your DCX set-top can generate graphics that overlay the video programming or fill the entire television screen.

Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The DCX set-top overlays these graphics whenever you open a menu, enable closed captions, or scroll through a program grid. · · On-screen graphics are not available on all video output combinations. @@@@Motorola recommends using HDMI cables less than 20 meters long. @@Ensure the DCX3400 is installed properly and turned on 2. Press POWER to put the set-top in stand-by mode. With-in two (2) seconds press the MENU key on the front panel. 3. @@@@4. @@Press the key to select an option.

To exit the setting and move to another setting, press the or key. @@@@Options include 16:9, 4:3 LETTERBOX, and 4:3 PAN SCAN. By default, the 16:9 option is selected. @@@@Options include 1080i, 720p, 480p, 480i, and Native. By default, the 1080i option is selected.

The options are used as follows: · 1080i -- The DCX3400 will present programs in the High-Definition 1080i format (1920 x 1080 pixels with interlaced scanning at 30 frames per second). 720p -- The DCX3400 will present programs in the High-Definition 720p format (1280 x 720 pixels with progressive scanning at 60 frames per second). 480p -- The DCX3400 will present programs in the EnhancedDefinition 480p format (720 x 480 pixels with progressive scanning at 60 frames per second). 480i -- The DCX3400 will present programs in the StandardDefinition 480i format (720 x 480 pixels with interlaced scanning at 30 frames per second). Native -- The DCX3400 will present programs in the format that most closely matches their native format according to the compatible formats selected from the "My TV Supports The Following Formats" list (see below).

1080p 24/30 will be presented natively. · · · Note 1: Some televisions may only support certain video formats. Please consult the television's user manual for more information on video format compatibility. Note 2: The DCX3400 can detect when the HDMI connection is in use. If you are not using the HDMI connection on the DCX3400, the "HDMI/YPbPr Output" setting will display as "YPbPr Output" in the User Settings Menu. 31 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS Setting 4:3 Override Description The 4:3 Override setting allows you to specify the video output format of the DCX3400 when it is tuned to a Standard-Definition program or playing back a Standard- Definition program from the DVR. Options include 480i, 480p, Stretch, and Off. By default, the 480i option is selected. The options are used as follows: · · · 480i -- The DCX3400 will present Standard-Definition programs in the Standard-Definition 480i format (720 x 480 pixels). 480p -- The DCX3400 will present Standard-Definition programs in the Enhanced-Definition 480p format (720 x 480 pixels).

Stretch -- The DCX3400 will automatically stretch all StandardDefinition programs to a widescreen aspect ratio and present the video in the format designated by the HDMI/YPbPr Output setting. Note that the Stretch option is only available when the TV Type setting is 16:9. Off -- The DCX3400 will create a widescreen version of a StandardDefinition program by adding black bars to the left and the right of the picture and present the video in the format designated by the HDMI/YPbPr Output setting. · Note 1: Some televisions may only support certain video formats. Please consult your television's user manual for more information on format compatibility. Note 2: If the HDMI/YPbPr Output setting is set to either 480i or Native, the 4:3 Override feature is disabled and is no longer selectable in the menu. The 4:3 Override feature is available when the HDMI/YPbPr Output setting is 1080i, 720p, or 480p. 32 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS Setting My TV Supports The Following Formats Description The My TV Supports The Following Formats checklist allows you to configure the Native mode operation of the DCX3400. The checklist becomes accessible only when the HDMI/YPbPr Output setting is set to Native. The DCX3400 is capable of delivering all of the video formats listed in this checklist depending upon the type of video connection (HDMI or YPbPr) being used.

By default, the 1080i and 480i formats are checked in this checklist. The options are used as follows: · 1080p30 -- The DCX3400 will present programs broadcast in the High Definition 1080p30 format (1920 x 1080 pixels with progressive scanning at 30 frames per second) using the HDMI connection only.

The DCX3400 cannot convert any other broadcast format to the 1080p30 format. 1080p24 -- The DCX3400 will present programs broadcast in the High Definition 1080p24 format (1920 x 1080 pixels with progressive scanning at 24 frames per second) using the HDMI connection only. The DCX3400 cannot convert any other broadcast format to the 1080p24 format.

1080i -- The DCX3400 will present programs broadcast in the High Definition 1080i format using both the HDMI and YPbPr connections. The DCX3400 can also convert any other broadcast format to the 1080i format. 720p -- The DCX3400 will present programs broadcast in the High Definition 720p format using both the HDMI and YPbPr connections. The DCX3400 can also convert any other broadcast format to the 720p format. 480p -- The DCX3400 will present programs broadcast in the Enhanced Definition 480p format using both the HDMI and YPbPr connections.

The DCX3400 can also convert any other broadcast format to the 480p format. 480i -- The DCX3400 will present programs broadcast in the Standard Definition 480i format using both the HDMI and YPbPr connections. The DCX3400 can also convert any other broadcast format to the 480i format. · · · · 33 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS Setting Description Note 1: The DCX3400 cannot provide 1080p30 or 1080p24 video using the YPbPr output. When using the DCX3400 in Native mode, these two formats are disabled and inaccessible if there is no HDMI connection in place. Note 2: When connecting the DCX3400 to an HDMI (or DVI) TV, the TV provides the DCX3400 with its list of supported video formats. The DCX3400 will automatically place a check next to the formats in the checklist that it can verify are supported by the TV. The checklist may be modified manually after the DCX3400 performs the automatic configuration. Note 3: While this checklist provides the ability to customize the Native mode experience when using the DCX3400, it can also result in a loss of video if the checklist is modified without a clear understanding of the video formats supported by the TV. These settings should only be modified by a professional installer or someone with a good working knowledge of the video formats supported by the TV.



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Note 4: When using the DCX3400 in Native mode, at least one of the following formats (1080i, 720p, 480p, 480i) MUST be checked even if one or both of the 1080p formats has been checked. The DCX3400 cannot be configured to provide video only in the 1080p30 and/or 1080p24 formats. The DCX3400 also does not support the 1080p60 video format. Note 5: The DCX3400 will provide 480i format video on the YPbPr output whenever 1080p30 or 1080p24 format video is being provided on the HDMI output. Video Sharpness The Video Sharpness setting allows you to adjust the picture sharpness when viewing a standard definition (SD) program on the DCX3400. The Video Sharpness setting affects all of the video outputs. By default, the sharpness level of 3 is selected. The DCX3400 supports five distinct levels of video picture sharpness. A value of 1 corresponds to a "softer" picture while a value of 5 corresponds to a "sharper" picture. The best sharpness setting depends upon the video connection being used, the display quality of the TV, and the viewer's personal preference. Additional HDMI Settings The Additional HDMI Settings option is available whenever an HDMI connection is in place. Selecting this option will present a new menu screen with settings specific to the HDMI connection. These settings are discussed in more detail on the following pages. The Closed Caption setting turns closed captions off or on. When this option is set to Disabled, the DCX3400 does not render (draws) closed captions on any video output. When this option is set to Enabled, the DCX3400 renders (draws) closed captions on all video outputs. By default, the Disabled option is selected. The Additional Closed Caption Settings option is available whenever the Closed Caption setting is set to Enabled. Selecting this option will present a new menu screen with settings specific to closed captions. These settings are discussed in more detail on the following pages. To reset all User Settings to their default values, move the cursor to this option and press the key. Closed Caption Additional Closed Caption Settings Restore All Defaults 35 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS An example of the User Settings menu when configured for Native mode operation. 35 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS To configure the DCX3400 settings on the Additional HDMI Settings menu screen: 1. With an HDMI connection in place, power off the DCX3400 and then immediately press the MENU key on the front panel. 2. This will display the main User Settings menu. 3. Move the cursor next to the "Additional HDMI Settings" option and press the key. An example of the Additional HDMI Settings menu. 36 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS The Additional HDMI Settings menu options are: Setting HDMI/DVI Mode Description The HDMI/DVI mode settings allow you to optimize the HDMI output to work with both DVI-equipped televisions and HDMI equipped televisions.

By default, this option is set to HDMI. The options are used as follows: · · Color Space HDMI designates that an HDMI television is connected to the DCX3400 DVI designates that a DVI television is connected to the DCX3400 (via an HDMI-to-DVI adapter) The Color Space setting allows you to adjust the color space used by the DCX3400 to generate the video signals on the HDMI output. By default, this option is set to YCC 4:4:4. The options are used as follows: · · YCC 4:4:4 designates that the DCX3400 will generate video signals within the YCC color space. RGB designates that the DCX3400 will generate video signals within the RGB color space. Note 1: Adjusting these settings could result in a loss of video. Only a professional installer or someone with a good working knowledge of the color spaces supported by the TV should change this setting. Audio Output The Audio Output setting allows you to specify the digital audio format delivered over the HDMI connection by the DCX3400. Options include Auto, L-PCM, and Pass Through. By default, the Auto option is selected.

The options are used as follows: · Auto designates that the DCX3400 will provide the digital audio format specified by the connected device (TV or home theater receiver) when that device was first connected to the DCX3400. L-PCM designates that the DCX3400 will provide all audio in the Linear Pulse Code Modulation digital audio format. The L-PCM format is widely supported by most HDMI televisions and home theater receivers. Pass Through designates that the DCX3400 will provide the same digital audio format on the HDMI output as is provided with the program being viewed at that time. For example, if the program has a Dolby Digital soundtrack, the DCX3400 will pass the Dolby Digital audio to the HDMI output. This option is most useful when connecting the DCX3400 to a home theater receiver that has HDMI switching capability. · · Note 1: Adjusting these settings could result in a loss of audio. Only a professional installer or someone with a good working knowledge of the digital audio formats supported by the TV and/or home theater receiver should change this setting Return To Main Page Restore Automatic Settings Selecting this option will return you to the main User Settings menu screen. Selecting this option will restore all of the settings on this screen (HDMI/DVI Mode, Color Space, and Audio Output) to their default value. Use this option if audio and/or video has been lost after adjusting these settings from their default values.

37 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS To configure the DCX3400 settings on the Additional Closed Caption Settings menu screen: 1. Power off the DCX3400 and then immediately press the MENU key on the front panel. This will display the main User Settings menu. 2. Move the cursor next to the "Closed Caption" option and adjust this setting to "Enabled. " 3. The option to enter the Additional Closed Caption Settings menu is now available. An example of the Additional Closed Caption Settings menu. 38 7 CONFIGURING THE AUDIO, VIDEO, AND CLOSED CAPTION SETTINGS The Additional Closed Caption Settings menu options are: Setting Service Selection Description Sets the service used by the DCX3400 to render (draw) the closed captions: Analog: CC1, CC2, CC3, CC4, T1, T2, T3, or T4. The default is CC1.

Digital: PRIMARY LANGUAGE, SECONDARY LANGUAGE, 3, 4, 5, or 6. The default is PRIMARY LANGUAGE. Font Size Font Style Sets the font size for closed captions. Defaults to AUTO. Options are AUTO, STANDARD, LARGE, or SMALL. Sets the font style for closed captions. Defaults to AUTO. Options are AUTO, MONO SERIF, PROPORTION SERIF, MONO NO SERIF, PROPORTION NO SERIF, CASUAL, CURSIVE, or SMALL. Sets the font color. Defaults to AUTO.

Options are AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN. Sets the opacity. Defaults to AUTO. Options are AUTO, TRANSPARENT, TRANSLUCENT, SOLID, or FLASHING.



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Sets the edge appearance.

Defaults to AUTO. Options are AUTO NONE, RAISED, DEPRESSED, UNIFORM, LEFT SHADOWED, or RIGHT SHADOWED. Sets the edge color. Default to AUTO. Options are AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN.

Sets the background color for closed captions. Defaults to AUTO. Options are AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN. Sets the background opacity for closed captions. Defaults to AUTO. Options are AUTO, TRANSPARENT, TRANSLUCENT, SOLID, or FLASHING. Sets the default settings for closed captions (AUTO) or the settings you have configured (USER). Defaults to AUTO. Options are AUTO or USER. Selecting this option will return you to the main User Settings menu screen.

To reset all of the Additional Closed Caption settings to their default values, select this option and press the key. Font Color Font Opacity Font Edge Type Font Edge Color Background Color Background Opacity Settings Return To Main Page Restore Closed Caption Defaults 39 8 TROUBLESHOOTING Before calling your service provider, review this troubleshooting guide. This information is to help you quickly solve a problem. If your problem still exists, contact your service provider. Problem The DCX set-top will not power on Possible Solution The DCX set-top may have received a software update and may not power on while the new software is being installed. Try again in a few minutes. · Verify that the AC power cord of the external power supply is connected to the DCX set-top and an AC outlet. Unplug the DCX set-top from the AC outlet, plug it back in, and then press the POWER button. If the DCX set-top is connected to a switched outlet on another unit, verify that that unit is powered on. Unplug the power cord from the DCX set-top's AC outlet, plug it back in, and then press the POWER button.

It is recommended to use an unswitched outlet, if possible. Press the POWER button on the DCX set-top front panel instead of the remote control. The batteries in the remote control may be depleted. · · The remote control does not work Verify that the remote control is in "Cable" mode. Verify that there are no obstructions between the remote control and the DCX set-top.

Aim the remote control directly at the DCX set-top front panel, not the TV or VCR. The angle between the remote control and the DCX set-top may be too large. Stand in front of the DCX set-top and not too far to either side. · · · Press and release operation keys one at a time, firmly and deliberately. Try changing channels using the buttons on the DCX set-top front panel.

Check the batteries in the remote control. Install new batteries if needed. There is no audio when viewing cable channels Verify that the mute button on the DCX set-top or the remote control has not been pressed. Press mute on the remote control to restore sound. · · If the DCX set-top audio output is connected to the TV, verify that the mute button on the TV has not been pressed. If the DCX set-top audio output is connected to a home theater receiver, verify that the receiver is set to the appropriate input source and the mute button on the receiver has not been pressed. Verify that you have the correct cables for the audio connections. Verify that the audio cables are firmly connected between the DCX set-top and the audio playback device (TV, receiver, DVD player, etc.). · · 41 8 TROUBLESHOOTING Problem There is no audio from the center and/or surround speakers of a home theater receiver connected to the DCX set-top Possible Solution Not all programs feature full Dolby Digital® [5].

]or Dolby Digital® Plus [7.1] surround sound. In some cases, the programs may only contain left and right stereo audio. · · Verify that the S/PDIF cable (coaxial or optical) is firmly connected to the DCX set-top and the home theater receiver. Verify that the home theater receiver is set to a surround sound audio mode (Dolby Pro Logic®, Dolby Pro Logic II®, Dolby Pro Logic IIx®). Verify that the receiver is properly configured to work with all connected speakers. · There is no video on the TV screen Verify that the TV is powered on and set to the appropriate input source for the DCX set-top. Verify that the DCX set-top is powered on and tuned to an authorized cable channel. @@@@ Wait one second and then power on the devices. · Not all HDTVs can display every output format (1080i, 720p, 480p, or 480i) available on the DCX set-top.

To select a different format: 1. 2. 3. 4. No graphics or program guides appear on the TV screen No closed captions display Ensure that your DCX set-top is plugged into a power outlet and is turned off.

Press the MENU key on the front panel. Your settings are displayed on the DCX set-top front panel display. Press the and keys to display the HDMI/YPbPr OUTPUT setting. Press the key to cycle through the available output formats until a picture displays on the TV. If you use the IEEE-1394 connection, on-screen graphics, including closed captions and program guides, are not displayed by the DCX set-top.

Onscreen graphics and captions may still be overlaid by your TV, if enabled. Alternatively, use HDMI or component video instead. @@ Verify that closed captions are enabled on the TV. @@ Turn on the 4:3 OVERRIDE feature in the User Settings menu. @@@@ These programs are broadcast in 16:9 HD formats even though the video is not 16:9. There are black bars above and below the picture All 4:3 HDTVs display HD programs in letterbox format (black bars above and below the picture) because of the shape of the display screen. · Turn on the 4:3 OVERRIDE feature in the User Settings menu. This enables most standard screen TVs to display a full screen picture when the DCX set-top is tuned to a 4:3 program. Set the TV TYPE to 4:3 Pan-Scan. This enables the DCX set-top to remove the black bars above and below the picture when possible.

· Some SD programs are broadcast in the letterbox format with black bars above and below the picture. Some widescreen TVs offer a zoom feature that may be able to remove the black bars (see your TV manual for information about zooming 4:3 video). There are black bars on all four sides of the picture This may occur on a 4:3 TV if the 4:3 OVERRIDE setting is OFF. To set 4:3 SD programming to fill the screen, depending on the capabilities of the TV, set 4:3 OVERRIDE to 480i or 480p. This may occur on a 16:9 TV if the active video for an SD broadcast is in letterbox format. To confirm, wait for a commercial or look for a graphic, such as a network logo. If the commercial fills the screen from top to bottom, or the graphic appears below the active video, the program is being letterboxed by the broadcaster. You can minimize this by activating the zoom feature on the TV. A broadcaster may include black bars on either side of a wide screen broadcast. This is called a "hybrid" aspect ratio and results in a black border surrounding the video on a 4:3 TV.



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*Because this is part of the broadcast, the DCX set-top cannot correct the video. You may be able to minimize the border using the zoom feature on the TV. Colors do not appear correctly The DCX set-top is making a humming noise. Be sure to match up each signal to the same YPbPr connection on the TV, otherwise the colors will not appear correctly on your TV. The DCX set-top includes an integrated hard drive and a fan for cooling. During normal operation, the DCX set-top emits a low humming noise, similar to a personal computer. The noise varies in volume occasionally when the speed of the internal fan adjusts to changes in the temperature around the DCX set-top. Please note the hard drive will stay on even when the DCX set-top is turned off (standby). 43 Motorola, Inc. 101 Tournament Drive Horsham, PA 19044 U.S.A. <http://www.motorola.com> 547049-001-b 07/08 .*



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