Doremi V1D Manual

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Doremi V1D Manual

Version 4.16v. For use with. V1 Disk Recorder Series. Doremi Labs, Inc.Doremis warranty obligations are limited to the terms set forth below. YEAR from the date of original retail purchase. If you discover a defect, Doremi will, at its option, repair, replace, or refund the purchase price of this product at no charge to you,To each product returned for warrantyIf your product fails during the warranty period while you are out of the country of original retail purchase, you may have it repairedDoremi software is warranted pursuant to a separate written statement packed withThis warranty does not apply if the product hasDoremi; or if any Doremi serial number has been removed or defaced.Please ensure that your V1 meets theIf in doubt, consult a qualified electrician or Doremi Labs, Inc. dealer.Il faut que le V1 soit ajuste au voltage du pays.Always disconnect the V1 from the power supply by pulling on the plug, not the cord. Allow only a Doremi Labs, Inc.Apart from voiding the warranty, unauthorized engineers might touch live internal parts and receive aDo not put, or allow anyone to put any object, especially metal objects into the V1. Use only an AC power supply. Never use a DC power supply. If water or any other liquid is spilled into or onto the V1, disconnect the power, and call your dealer. Make sure the unit is well ventilated, and away from direct sunlight. To avoid damage to internal circuitry, as well as the external finish, keep the V1 away from sources ofAvoid using aerosol insecticides, etc.Do not use denatured alcohol, thinner or similar chemicals to clean the V1. They will damage the finish. Modification of this equipment is dangerous, and can result in the functions of the V1 being impaired. Never attempt to modify the equipment in any way. In order to ensure optimum performance of your V1, select the setup location carefully, and make sureAvoid setting up the V1 in the following locationsMarking by the symbol.http://www.refinerlink.com/userfiles/91-camaro-rs-manual.xml

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Compatibility directive and to the Low Voltage directive of the European Community. Such marking isDoremi Labs, Europe, Valbonne, France.The V1 is a random access digital video disk recorder that usesTo record video on a hard drive it should be digitized which means that the analog videoEvery NTSC video frame contains 525The table below indicates the bit rate standard definition SD and high definition HD videoResolutionV1 Uncompressed. The V1U series records the video directly on the hard drive without the use of compression. V1 Compressed DCT vs MPEG2 . Doremi's V1 product line includes models that use DCT compression the V1, V1m, V1d, and. V1x2 and MPEG2 compression V1MP2. DCT Discrete Cosine Transform consists of compressing every field of video and saving theMPEG2 will yield better quality when recording on. DVDRAM drives and larger servers can be built with MPEG2 units. The CBS algorithm. The V1 uses a constant block size CBS algorithm. With traditional compression algorithms,With CBS all fields have theThis results in a more reliable disk recorder withIn addition to the video, and regardless of the compression ratio used, the V1 records 0, 2, 4, 6 orEach audio sample is coded on 2 bytes. The V1 can alsoHopefully this introduction has explained to the reader the basic technical principles of digitalAlthough the basic operationWhen a feature refers to only one productBold text is used when referring to buttons on the front panel of the machine or when referring to theThis manual was written with the latest product firmware numbers below. DCT V1, V1m, V1d, V1x2HDTV Uncompressed V1UHDFront Panel RCV2 firmwareCheck the front panel firmware in the Controller Menu. Hold the ESCAPE button and press MENU. And then scroll to Firmware. If you have a newer 4.16 firmware than shown above, check the addendum pages on the back of thisIf you have recently upgraded your firmware please

print outYou can also download the latest.

V1 manual from our tech support page "manual" section on the Doremi website. If you have an older firmware than shown above, then please upgrade your V1 to the latest firmware byIf you will not be upgrading then please download the manual with the same firmware version as your V1For more information about the items in bold, refer to Chapter 4 there you will find every Menu and. Option Menu command listed and explained. Note V1U and V1UHD drives are preinstalled at theThis quick start guide assumes the most common hardware setup Single video channel V1 equipped withIf you purchased your. Kingston and SCSI drive from Doremi, your V1 has been setup at the factory.If you keep watching the LCD display on the. RCV2 or VToolsPro, you will see a "Scanning" message displayed for about 30 to 60 seconds theIn about 1 minute, the "Initialize"This means that theGo to step 3.If the menu disappears andRefer to theEnsure the selected sync source is present.This should display a pattern on your monitor. PressBefore poweringup the V1 unit, please connect the SCSI termination supplied on the rearIf you don't see a SCSIAfter poweringup, if your V1 has been ordered with a drive from Doremi Labs, you will be able toSync In and validate by pressing ESCAPE. Before any transportNote Doremi highly recommends shipping drives separately. Switch the V1 OFF. Remove the SCSI termination on rear Leaving it may break the SCSI connector during transport. Setup of one or more drives on V1 DCT and MPEG2The time left in Menu 10 should reflect the total time fromThe jump from drive to drive is seamless. This procedure can also be used to record on more than two drives with consecutive SCSI IDMount menu command to mount all drives, if needed, before initializing them.Sets" to 1. For units connected to external storage, more than 3 drives can be used.

The single file system SFS is the original file system Doremi has been using in the V1 since the first V1It is based on opening 1 file for the whole disk and recording on it like a tapeThe unit would start on the disk with the highest ID number and when full will continue on the lower. SCSI ID number. The SFS creates a header on the disk that has all information about the machine setupThe multi file system MFS is the new generation file system that will allow multiple files creation onThe user can still generate clips within a file,The MFS allows for. RAID0 striping across multiple drives and allows for controllers and automation systems that are LouthOn the MFS all file names are savedWith firmware 4.16 and with the use of fast drives like the ST318452 and the ST336752, the V1U canIf the V1USCSI drives, keypad, menu controls, transport controls, LCD display and an optional LCD videoFor single channel V1ALPHANUMERIC KEYPAD This keypad is used to enter numeric data such as timeTo enter data,The BKSP BackspaceThe keypad can also beAlso used in the copy command.Press it when you want to exit the menuHold down option key and press the. MENU button.Also locates one field or frame backThis depends if you are in frame or fieldNudge the value forward. Also locates one field or frame forwardThis depends if you are in frame or fieldPressing one of these keys will engage the menu mode. PressingScroll forward and backward through the menu by pressing theSync InHouse Sync input BNC connector for the V1 synchronization reference. Use only Black Burst Sync here. Your Sync input should not exceed 1VAnalog Composite video input and output BNC connectors. Video IN isOUT is for connection to a video monitor or another video recorder. SVideo. Two separate Y and C BNCs.Optional. Three RGB or YUV selectable BNC output connectorsY Pb Pr. Analog HDTV Video. SYNC Input. Trilevel sync input.

Locks the V1 to an external sync sourceThese XLR connectors are theDigital AudioTransformer balancedAudio Expansion1 Expansion Card Slot holds one of the following. B 2 Channels analog audio. Audio Expansion2 Expansion Card Slot holds one of the following. B 2 Channels analog audioConnector 1 should beDoremi Labs, Inc.Ethernet RJ45 connector 100BaseTThe V1 time code input. If you are feeding an unbalancedYou can use an unbalanced jackThe V1 time code output is a

balanced signal. If you are feeding it to an unbalanced input, ring shouldYou cannot use an unbalanced jack tip and sleeve on the timeIf you connect time code from one V1 to another the cable should beWhen no external. SCSI devices are used, make sure the supplied terminator is connected here. When connectingAll V1 internal drives suppliedThis connector may not appear on your unit because the terminator was placed inside the unit. Confirm that the proper voltage is selected for your area on the power supply. The switch isPressing the MENU key willPressing the ESC and MENU key willIf you don't have a front panel controller, you can either useThe MENU key will call up the menus allowing the user to define the setup of the V1 unit. The up. The TOGGLE button generally sets the parameters for the selected menu. Press TOGGLE to increaseOnce menus are setup, pressing the ESC key will save the settings and quit the menu mode. All theMenus 00, 01, 02, 04, 05, 06 and 10 are saved on the active drive. So if this drive is mountedSelects the mode of control for the V1. The TOGGLE key will switch between. Local. RemoteFor front panel control of the V1. For control of the V1 by an external edit controller or workstationSelects the Time Code source of the V1 during playback. Regardless of the settingVITC track, and the time code present on the LTC input on the time code track. This menu option will allow you to choose the time code during playback. The. TOGGLE key will switch between.

Absolute Time, the time code displayed on the V1 front panelSee Section 5.1.4, "Time Code. Offset". Time. During record the time code present on the TIME CODE IN. CodeThe time code displayed on the V1A Time as If you are using A Time with or without an offset as your timeCode on the RS422 connection. A TimeSpecifies the sync reference during playback. The V1 is always locked to the. Input when recording. Auto. Sync In. Input. InternalSpecifies how the V1 will chase to time code. The TOGGLE key will switchOffNoteThe V1 syncs to the SYNC IN input. Auto and Sync In areThe V1 syncs to the VIDEO IN input. UncompHDTV ONLY. Sync to input using a VCXO for a low jitter playback. The V1 syncs to its own internal clock. Normal mode of operation when the unit is controlled by aIn this mode the V1 will chase the time code fed through the. TIME CODE INPUT jack. This mode is recommended whenChase Play.. In this mode the V1 will chase the time code fed through the. MIDI IN connector. This mode is recommended when no RS422This feature may no longer be supportedIn this mode the V1 will chase the time code received on the. RS422 connection. This mode requires a special cable and it isIn this mode the V1 will chase the Biphase input clock signal.Please refer to option menuJ3 on the main motherboard. Please refer to Section 5.2.4 forThe Chase to LTC Mode above is different than the OPTION PLAY. Command also referred to as Chase Command note the differenceMount. If you have more than one drive powered up, this command will mount the drivePress the TOGGLE key. The message "Are youSpecifies which video input of the V1 is active. The TOGGLE key will switchPressing the TOGGLE key onHolding downThis command wipes deletes all previous recordings, and writes all the new setup parameters selected in the menus on the active drive.

A disk that was neverTo initialize a disk,A message will appear on the LCD screen "Are you sure"This command wipes all previous recording and prepares the active drive forBrand new drives do not need formatting. The FormatTo format a disk,You will be prompted with the following message "AreThe format operation is a long procedure that depends on the size and speed of theOnce Format and Initialize have been executed on a drive, it is not necessaryThis option is only valid when Time Mode is set to ATime or ATime As LTC in. The TOGGLE keyThis menu selection will display how much time HHMMSSFF is still availableThe total duration is calculatedIf you call this menu during recording, it willWhen the drive is fully recorded,Hold the OPTION and the MENU key to call up the "Option menus". The up arrow key ! or down. If there are submenuPress TOGGLE to increase the parameterOnce menus are setup, pressing the ESCOPTION Menus 05 and 06 are saved on the active drive. So if this drive is mounted on another. V1 unit, all these settings will be recovered. V1 Info. If you are in Option Menu 00 and hit the down arrow key, the V1 will displayThe

TOGGLE button will switch between Version. Number, IP address, Ethernet Port Address, the amount of RAM used on that unitThe V1 will play thatThis function can also be used toAll you need toFirst make sure your source disk is the active drive when you hit play, only theSource is. Full Disk. Type the SCSI ID number of the source drive Valid range from. Type the number of drives that will act as your destinationType the SCSI ID number of the destination drive number 1If you wish to copy only a segment already defined on theIf you need to perform a full copy, then. If you wish to copy the full disk, and if previous menus 1,2,3In this case check your recording on theFor the V1U theFor the V1UHD itThis feature is used only when you are using the front panel to do the overdub. IfAssemble. Insert. TOGGLE key. TOGGLE key.

If this submenu is set to On by pressing the TOGGLE key, allThe reason for the. PLAY mode Usually required by Editors using RS422 control, inSelect On or Off by pressing the TOGGLE key. Enables orThe overdub procedure is explained further in Section 5.1.2This menu option will allow you to set the video parameters.This parameter sets the delay until the video output goes blackVideo Pattern. Use the TOGGLE button to switch between ON. PatternUse the TOGGLE button to select the output as RGB, YUV or S. Out. Video. Chroma Phase. Use the TOGGLE button to increase or decreaseYou can also enter a numberYou can also enterSets the black level to 0V for the Japanese standards and 0.75V. BlackUsed in NTSC only. PAL Switch 0 or 1. Use the TOGGLE button to set the value according to the. PAL standard used in your area A or B. Luma Brightness. Use the TOGGLE button to set. 00 is the. Luma BritLuma Contrast. Use the TOGGLE button to set. 00 is the default. Luma ContChroma Sat Chroma Saturation. Use the TOGGLE button to set. 00 is theChroma Hue. Use the TOGGLE button to set. 00 is the default. ChromaHue. Composite Brightness. Use the TOGGLE button to set. 00 is the. Comp Brit. Composite Contrast. Use the TOGGLE button to set. 00 is the. Comp Cont. Composite Saturation. Comp Sat. VTrigThis option is not saved on the drive, it is saved on the V1 flash EPROM only ifDelayThis menu option will save all the Flash EPROM settings of the V1. To write the. A message will appear on the LCD screen "Are you sure". The V1 will write the changes on the Flash EPROM.This menu option will allow you to write protect your drive. The TOGGLE key. When Play Only isThis option isSo if the drive is mountedOnly. When ON the V1 will stop on a frame and in slow motion it will play frameMotion application, the frame mode must be OFF. When the V1 is in stop freezeSo if the drive is mounted on another V1 unit, theseStep Recording.

Select the TOGGLE button to switch between Step RecordingThis option isWhen Step Recording is disabled, the V1 is in normal modeThis will give you the option of recording "All"Clip Menu The TOGGLE key will go to the beginning of the next or previous clip segment. This menu only shows previously defined segments. For more information onWhen a clip other than 0 is selected here, the V1 operations will be restrictedVid Optns. The video options menu features settings for VITC vertical interval time code,VITC In. VITC Out. CC Out. BIW Pos. Select off or the line number the source VITC is on 10 to 18Select off or the line number to output VITC on 10 to 18Close Caption. Set to on or off to allow close caption to passTime Code Burnin window. Position on the screen at TopLeft. TopCenter, TopRight, BottomRight, BottomCenter, BottomLeft Analog Video Outputs Only. Select off, black on white, or white on black numerals.This selection is saved on the machine after executing 04 Save.To ensure lossless audio on the digital input, it must be sampled at 48.000Khz andIf you feed digital audio at a different frequency,Use to set the SCSI Parameters. The different submenus and selections are. Clock 10MHz, 20MHz or 40MHz. Width 8bit or 16 bit. Termination ON or OFFFor the MPEG2 and DCT units with a loop SCSI cable 2 SCSI connectors in theImportant Note When the unit is in Player Only mode, all operations that writeSelect the TOGGLE button to switch between NTSC and PAL. If you want theThe unit will switch only after the drive isHD formats of your source below by pressing the TOGGLE buttonDo not use a SCSI IDA Save commandThe default SCSI ID is 7.The selectionChanging this menu will take effect onlyWhen the V1 is playing at any speed below 100%, the audio will output from onlyV1 is playing at any speed below 100%.When

this option isThis command will stripe Time Code with black video and no audio. The stripingLCD.

Example If you want to stripe time code beginning at 01000000, youCreate a one hour offset using the OPTION IN. If you are, hold the OPTION Key and press the. TOGGLE button, if not just hit the ESC key.The speed shown in percentage after the word "Under" will define the speedIf you want to play odd and evenFor Slow MotionThe number of frames defined in this option menu will set the freewheel of theWhen set to "0", the V1 will playWhen set to aThis functionIf you know thatSelect between normal and enhanced. Enhanced mode will provide the best videoSets the maximum speed in Jog mode to 100% or no limit.In EE mode, pressing StopThe use of this Option Menu is necessary to define the SCSI ID of the active diskSingle File or. Multi File. See Section for definition of Single file and Multifile systems.Disk1. Sets the SCSI ID of the active disk Single File or SCSI ID ofSets the number of disks in the RAIDSET. Use "1" for Single. File. Sets the number of RAIDSET to be defined. This parameterUncompSD ONLY If the V1U is equipped with the fast ST318452 or. ST336752 drives, it can be initialized in Single File system, which does not allowUncompHDTV ONLY The V1UHD unit can use two SCSI bus in stripingFor this unit the Menu entry is. Bus1 Use Single Bus. Stripe On Sets the TOTAL number of disks in the RAIDSET. minimum 3This parameterIf you try to initialize a unit and if the drives installed do not match theDefines the protocol used on the RS422 PORT1 and RS422 PORT2 located onEach port can be individually set to emulate. P2 Protocol Sony P2 protocol at 38400 bauds. LD Protocol Pioneer Laser Disk Protocol at 4800 or 9600 bauds.Sets the audio input level for each analog audio channel separately. Press.

TOGGLE to increase the level, press OPTION and TOGGLE to decrease theIs used to enable or disable the GPIO for units that have the GPIO option boardA future software release will allow the user to specify the functions of the 3 GPIsCommand as listedThe pin number is determined by theAllows the user to change the IP address of the V1. To enter a new IP address,To jump from one block to the other hit the BKSP. If youWhen you are done entering the new IP address you need to hit ENTER, thenThis menu option allows you to quickly set the V1 to begin recording at the endThus preventing youSelect between "Record at. Current Position" and "Record at End of File"The front panel controls of the V1 are called the "RCV2 controller". The RCV2 controller communicatesThe controller has several unique functions. To call up the Controller MenuUse the arrow keys toThe TOGGLE button changes the parameters for the selected menu. Press TOGGLE to increase the parameter and hold OPTION and TOGGLE to decrease the parameter. To disable the RCV2 and prevent accidental operation, hold the OPTION button then press ESCAPE. Press again to unlock the RCV2. When the RCV2 is in "disable mode" the letters "DIS" will beThe RCV2's functions are described belowDisplays the firmware version number for the V1 motherboard.Use the TOGGLE button to switch the front panel LCD monitorFor V1UHD only. Switches the composite output on the rearDefault is "on".When ON, the burn in window will be enabled on the confidence. LCD monitor it needs to also be enabled in the Option MenuDefualt is "on".Dualchannel V1 configured for single drive operation or V1MP2 only. This is used for broadcast delay to define the time delay betweenEnsure that the V1 is not recording. Select the player channel 2 and enter the delay time desired andThe transport controls on the player channel 2 will be disabledTo stop the delayDefault is "off".Used in conjunction with Slomo Mode See below.

When a timeDualchannel V1 configured for single drive operation or V1MP2 only. Used for sports slow motion replay applications. When ON, the. RCV2 operates like a slow motion controller.Select Channel 2 and press the Record button to go in EE mode. When you see an event worth marking press SAVE, this willEvery time you hit SAVE, the clip number will increment andRECALL. You can do this while in EE mode. When you press SloMo, the unit will start playing from that pointTo stop and go back in EE, press STOP followed by the RECORDDefault is "off".Dualchannel V1 only or control of two single channel V1Used to synchronize the recordingDefault is "off".Dualchannel V1 only or control of two single channel V1In this mode the RCV2 will insure that all clips are created

with theDefine the IN and OUT on Channel 1, then define the IN only on. The RCV2 willThis is useful for monitoring the inputThe V1 will beginWait until the V1 LCDSince insert mode requires fast disk drives, itFor the V1U, you need at least 2Users who want to use this feature with other drivesFor the DCT and MPEG2 V1s those drives can do all bit rates. To use this featureThe V1 will record the insert. ThenThis function will allow you to offset your time code track starting at any location frame on the disk. NTSC users should first select their time code frame rate from the Drop Frame menu option Drop or. Non Drop. To enter your Time Code Offset locate to any position on the drive, manually enter the newTime Code offset will be permanently saved on the drive. This Time Code Offset function is useful to transform an Absolute Time track into a Time Code track;To execute a Chase command, you should hold down the OPTION key and press PLAY. Both theBegin playing the source machine. The V1 will begin playing as soon as it sees time code that is within the range defined for the active driveNote that during OPTION PLAY, the V1 LCDBoth the sourceBegin playing the source machine.

The V1This mode requires a special cable described in section 9.4. To put the V1 into the Chase to RS422 or Serial Time Code mode, change the menu 03 to Chase to. Serial TC. Both the source machine and the V1 should be synchronized to the same source of House. Sync and the time code should be fed from the source machine into the RS422 port of the V1. BeginThe V1 will begin playing as soon as it sees a time code within theTo put the V1 into the Chase to Biphase mode, 3 steps are required. All 9 jumpers on J34 should be set to the. Units are shipped as PORT2 set to SERIAL PORT by default.Biphase signal should be fed from the source machine into the second RS422 port of the V1. Locate theBiphase signal, so a stop on the incoming Biphase will also stop the V1. Note that during this chase play,A segment also called clip is a valid recording on the active drive defined by a time in and a time out. Up to 2047 segments can be defined on the V1. To define a segment, press IN where you want the inYou may enter these values ontheflyPress SAVE and enter a numberIf you want to define the segment thatTo recall anyCAUTION NOTE The V1 will not save any segment number above 2047 and will also not saveWhen you start entering a clip segment number, the V1 will locate to that clip after a certain delay. IfIn order to implement this list, each segment requires the definition of. To define the next segment. Note that yourIf the current segment is equal to the next segmentDefine a previous segment only when you want to insert a segment into an existing play list.Examples. To play the following list of segments 4, 3, 8, 1, 4 the 4 at the end will cause the V1 to loop. Once all these segments have been defined with the IN, OUT and SAVE. Press RCL 004Press RCL 005Next SegNote 1 The segment definition and playback feature allows the user to define more than one playTo play list A, the user can recall any segment from that list 1, 2,Note 2 A list can be modified during playback.

This is useful to allow jumps from one list to theNote 3 A segment can also be used as a marker. Locate to the point you want to put a marker on, hit. Note 4 The Segment definition uses the ATime as a reference, this means that even if you set a. Time Code Offset, your segments will not change, they will only display the new time code whenWhen you RECALL a segment or a play list, the LCD will display the segment number playing backOUT point in mnsec.To play video and audio in reverse at normal speed, hold the OPTION key and press REW. You mayUse the DD1500 as if it is standalone, the V1 will chase to it at any speed.The Fairlight software will control the V1 properly.If you are using a Lynx 1, connect the time code out of the V1 to the time code in of the Lynx. Connect the transport serial cable between the Lynx and the V1. In the Transport menu, select the machine as DVR10. Set the Preroll to zero. If you are using a Microlynx or a Lynx 2, select Serial TC. The Lynx will control the V1 and lock it to the systemThe Sonic software will control the V1.Establishing Machinecontrol from Protools on the MacintoshYou can also connect it to the serial port on your D24 or MIXIn doing so, check that your MacintoshIf it's grayedout, try reinstalling your MachineControl software.If you're not using a Digidesign device toTransportPlease be sure to deselect the serial port used by Protools for V1Protools will now be able to control the V1. The way it works is as followedIf

problems persist, please consult the "Protools and V1 control" FAQ'sYou may set this as a default. Lock Criterion. You may set this as a default. If you press Audicys Machine Control button, the V1 will follow every move you make on the Audicy. IfYou may switch freelyThis connection scheme is used to connect the V1 to StudioFrame, Audiofile, Audiovision, PostPro. Dyaxis II, Protools 4.0 etc.Connect the time code out of the V1 to the time code in of the DAW.

Connect the serial cable between the V1 RS422 port 1 and the DAW. From the Dyaxis II software choose the following two optionsThis connection scheme is used to connect the V1 to StudioFrame, Audiofile, Audiovision, PostPro. Dyaxis II, Protools 4.0 etc.Run the DAW software which will control the V1.On the Screensound, go into the page Setup Serial and select Motion Off. The V1 will be controlled byThe V1 can be used with virtually all systems that have the ability to control video machinesDesktop Remote Controllers. See note 12.4 about the V1 RS422 protocol identification. This list is not absolute, contact Doremi Labs if your product is not listed aboveThese notes are written specifically for the RM450 Edit Controller, but most of the settings andPlayer CTL and 9pin. Preroll 5The best precision is when Synchro is ON. Recorder CTL and 9pin. When you use a V1 on the player or on the recorder the setting of the RM450 should be in CTL modeThe V1 will not work properly if the switchThe DIP switches. Left side All OFF. Right Side All OFF except bit number 2 which sets the edit time to 4. Do not use the default setting,This will allow the Edit to happen only on frames and the IN and OUT points will be accurate. Other settings on the V1. Sync Source Sync INOur RecommendationsRM450, Left side DIP Switches All OFF. RM450, Right Side DIP Switches All OFF except bit number 2 which sets the edit time to 4 frames. V1, Emulation BVW75The V1 is factory set to SCSI ID 7. The internal SCSI cable on the V1 is 68pin. To be able to mount 50pin devices you need toIf you have a SCSI connector on the back of your unit, you must place the provided terminator it. If you connect an external SCSI box to it, the external box must be properly terminated. If you don't have a SCSI connector on the back it means that the unit was shipped to you with anTo avoid conflicts, Dont use this ID 7 for any drive to be installed.

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