

SONY
DIGITAL VIDEO SWITCHER
DVS-2000C
SWITCHER CONTROL PANEL
BKDS-2010

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HP 1, 2 hp Miter Band Saws Miter Band Saws Round 8, 10 in. RD820 RD820 Column Diameter 8.29 in. Head Travel 25.20 in. Column to Spindle 33.46 in. RD1230 RD1230 Column Diameter 12 in. Head Travel 35 in. Column to Spindle 48 in. RD1600 RD1600 Column Diameter 17 in. Head Travel 50 in. Column to Spindle 63 in. RD2000 RD2000 Column Diameter 17 in. Head Travel 61 in. Column to Spindle 78 in. RD2500 RD2500 Column Diameter 22 in. Head Travel 79 in. Column to Spindle 98 in. Please complete the form below and we'll get back to you. Part Number BC00585. Revision A, October 1996. Printed in U.S.A. Copyright. All rights reserved. Neither this guide nor the software described herein, in whole or in part, may be Sony is a registered trademark of Sony Corporation. Betacam, Betacart, Jumbotron, and Umatic are registered trademarks of. Sony Corporation. FineKey, FineChroma, FlexiPad, Digital BETACAM, and Library. Management System are trademarks of Sony Corporation. ISR Interactive Status Reporting is an equipment management system Notice to Users The software described herein may also be governed by the terms of a separate end All features, functions, and specifications are subject to change without notice. Contents. Introduction Features and Benefits Making Complex Tasks Simple. 4. Basic Tools. 4. Control Panel, Screen, and FlexiPad. 4. Primary Inputs and VProc. 5. Effect Keyers and DSK. 5. FineKey Processing. 6. Enhanced Wipe Generator. 6. Assignable Outputs. 6. Snapshot and Memory Pack. 6. Superior Editor Interface. 7. Switchable System Standard. 7. Power Tools. 7. Depth Key Processing. 7. Key Modifiers. 8. Advanced Chroma Keyer FineChroma. 8. Dual Matte Generators with Color Mix Capability. 8. Frame Memories. 9. Auxiliary Buses. 9. Processed Key. 9 Basics. 12. Processor. 12. Control Panel. 12. Operation Software with Manual. 12. Input Configuration. 12 Analog Component Input Board. 13 Options and Upgrades. 13. Basic Chroma Key Board. 13. Chroma Key Upgrade Board. 13.

Basic Frame Memory Board. 13. Down Stream Keyer Board. 14. Assignable Output Board. 14. NTSC Black Burst Generator Board. 14. Enhanced Wipe Option. 14. Key Border Generator. 14. CPU Upgrade and Memory Enhancement. 15. Memory Pack. 15. Serial Tally Decoder. 15. System Cables.

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This chapter describes the DVS2000C's system components to assistTo simplify the ordering process, aChapter 3 — Installation Guide. This chapter offers information and diagrams to assist with facilityAppendix A — Feature List. This appendix provides a categorybased description of DVS2000CAppendix B — Related Resources. This appendix lists additional written and visual reference materialAppendix C — Sales and Service. This appendix provides basic information about Sony sales, service,Glossary. The glossary provides a reference list of important switching and videoA comprehensive "Index" is also provided for your reference. Features and Benefits. DVS2000C Feature OverviewThe following sections are included. The "Making Complex Tasks Simple" section discusses the overallThe "Basic Tools" section discusses important large categories of. DVS2000C features. The "Power Tools" section outlines the large feature categories thatFor a finely focused approach to each feature, refer to Appendix A, "Feature List.". This appendix provides tables and descriptions of DVS2000C features. Note that some features described in the following sections may apply only when SonyMaking Complex Tasks Simple. If an editing system is considered the "brain" of a postproduction system, then theIt needs to be compact yetSony's DVS2000C Digital Video Switcher is just such a device, and many factorsAbove all, it's the switcher's ability to make complex tasksDMELINK — the ability to run the DME3000 or DME7000 effectsThis function simplifiesProcessed Key — the ability to compose a key within the DVS2000C,This feature reduces complexSystem Integration — provides a powerful production and postproduction toolbox in conjunction with the BVE9100, BVE2000, and. DMEseries effects devices. Through status reporting and the editingFamiliarity — the DVS2000C's operating style simplifies the learningThroughout this guide, the DVS2000C's benchmark principle rings true — makingBasic Tools.

This section describes basic DVS2000C features used in daytoday production andControl Panel, Screen, and FlexiPad The DVS2000C's dedicated control panel is engineered for simplicity and clarity ofThe control panel also includes the DVS2000C's unique FlexiPad. From oneThe benefit is as clear as the design — operational comfort. Primary Inputs and VProc. The DVS2000C provides four standard serial digital inputs, with expansionBoth serial digital SDI and component analog inputsWhen optional analogBecause input configurations change from daytoday with a compact switcher, allAdditional adjustments are provided for blackThe bottom line is that the DVS2000C does not restrict you to one or two inputEffect Keyers and DSKA variety of creative key "types" can be selected, as follows. Luminance — a highgain key that derives the "holecutting"Chroma — a key in

which the holecutting information is derived from aLinear — a key that takes advantage of independent key signalsLinear keysClean — a key that takes advantage of “shaped” video provided byWhereas a linear key isDepth — a key that utilizes the third dimension on the video screen. Refer to the “Depth Key Processing” section for additional details. Pattern — a key that uses a wipe pattern and all active patternKeyers truly make the difference in switchers. There’s rarely a commercial orThe DVS2000C’sFineKey Processing. One superb aspect of the DVS2000C’s high quality key processing is the ability toFrom simple mattes to complex chroma keys situations, the DVS2000C’s FineKeyEnhanced Wipe Generator. With the BKDS2070 option, additional patterns including matrix wipes are added. These include Star, Heart, and the popular “Diamond Dust” wipe. The enhancedAssignable Outputs. In addition to the three standard program outputs, the DVS2000C offers an assignableCompared to compact switchers with fixed output configurations, the DVS2000C canSnapshot and Memory Pack.

As the natural byproduct of computer controlled switchers, the ability to store andProducers like their keys set up just oneAnd technical directors like to work with special setupsThe DVS2000C allows all these situations and more, with the ability to store andThe snapshotSuperior Editor Interface. The DVS2000C communicates with editing systems from most major manufacturersWith the Sony BVE9100, Sony’sAt the basic level as with most editors, crosspoints can be assigned,GPI control also provides autotransition and memory recall functions. At the advanced operational level with the BVE9100, virtuallyIt’s another aspect of Sony’s system integration that contributes to the simplicity ofSwitchable System Standard. The DVS2000C provides standard and format flexibility. You can operate on eitherPower Tools. This section outlines the features that technical directors and producers value the mostDepth Key Processing. The DVS2000C’s versatile and unique Depth Key option permits keys in the thirdFor example, when a video signal is processed by the DME and routed back to Keyer1, the Zdata controls the intersection between switcher layers. The function is soIn practice, you can fly an airplane around a globe or weave an object in and out of aOnce again, the benefits are clear — what was once accomplished with undue effort,Key Modifiers. In the early days of switchers the ability to add borders and shadows was quite anTo address this requirement, the DVS2000C provides extensive key modifiers. Each keyer has an independent pattern generator, and a separate patternEach keyer has two dual matte generators one for border fill and one forWith the optional Key Border Generator installed, Border, Drop Border.

Soft Edge, Shadow and Drop Shadow capabilities are added to thePowerful “copy” functions allow you to transfer settings between keyersWhen the client says “show me what you can do with this key,” the technical directorAdvanced Chroma Keyer FineChroma All Chroma Keyers are not created equal. It’s a common belief that those built in toNot true with the DVS2000C! Sony’s new FineChroma technology, available with the optional BKDS2031 and. BKDS2032 boards together, provides an advanced level of chroma key processingYou get full 4444 video andAlthough the feature list is impressive, it’s the visual results that make the differenceFineChroma technology handles each situation with ease — delivering clear keyedDual Matte Generators with Color Mix Capability. Switchers stopped being just switchers in the precise definition of the word manyTo this creative end, the DVS2000C provides eight ! internal dual color matteWipe border, and Color background. Each matte generator has color mix and washRembrandt would be jealous. Frame Memories. One of the features that users like best on the DVS2000C is the Frame MemoryThe option providesFrame memories can be used for the following creative applications. Grabbing fields or frames. Layering. Creating custom masks. Storing matte and fill signals. Painting from a usersupplied graphics tablet. Repositioning live or frozen images. Storing and manipulating frozen zaxis images in conjunction with. Depth Key processing. Keying and mixing between frames, filling with video from an internalIn much the same way that an audio submixer allows you to get “creative” upstreamAuxiliary Buses. Aux buses are Aux buses. You pick up a fixed set of signals off the bus rows and shipFour auxiliary buses are available as aUsing an assignment menu, you can

placeAux buses. In fact here's the kicker, every signal that enters the switcher or isThe feature is simple and logical. You can sometimes predict the signals you'll needProcessed Key.

The DVS2000C's Processed Key function is an "effects pathway" that solves theYou can compose a key, clip and adjust it asWhether you're flying logos or simply resizing a graphic, the Processed KeyIn post, it's easy — the BVE9100 editing system sends out RS422 commands and theSony's DMELINK function runs the DME timeline, and the switcher's internalOver 30 basicDMELINK once again underscores the DVS2000C's benchmark principle —Configuration Guide. DVS2000C Configuration. To assist with configuration planning, this chapter describes the DVS2000C's systemThe following sections are included. Basics. Input Configuration. Options and Upgrades. Order Guide. Request Form. This section describes the basic components that comprise a DVS2000C system.The DVS2000C chassis houses the main electronics, communication ports, and all. Four serial digital inputs SDI and three program outputsMultiple slots are provided for options andIn the "Installation Guide" chapter, refer to the "DVS2000C Chassis" section for aThe Control Panel presents all functions, crosspoints, and adjustments in a compactThe integral. LCD screen and FlexiPad are standard. In the "Installation Guide" chapter, refer to the "DVS2000C Control Panel" sectionThe operation software is required to initiate the DVS2000C. The software alsoInput Configuration. This section describes the input boards that can be added to a DVS2000C system. The DVS2000C has 2 slots for additional input boards. In the "Request Forms"The BKDS2020A 6Channel Serial Digital Input Board provides six serial digitalThe BKDS2022 Analog Component Input Board provides two analog componentThe board also functionsThe BKDS2021A 2Channel Serial Digital Input Board provides two serial digitalThe system acceptsOptions and Upgrades. This section describes the optional boards and system upgrades that can be added to a. DVS2000C switcher.The BKDS2031 Basic Chroma Key Board offers 444 oversampling of Chroma and.

Key signals for high quality FineChroma effects, including autoadjust, color window,The system accepts one board.The BKDS2032 Chroma Key Upgrade Board adds a second sample that handlesEnhancements for shadows andThe system accepts one board. Note thatThe BKDS2041 Basic Frame Memory Board provides two full color frameThe BKDS2050 Down Stream Keyer Board adds the system's third keyer inThis option includes a key border generator, maskWith the Chroma Key Upgrade Board BKDS2032 installed, chroma keys can beThe BKDS2060 Assignable Output Board offers additional analog and digital systemEdit Preview, Clean Out, and Proc Key.The board alsoThe BKDS2062 NTSC Black Burst Generator Board provides a single color blackThe BKDS2070 Enhanced Wipe Option provides the same wipe set found in the. DVS7000 family of switchers. The option includes both Matrix and Diamond DustThe BKDS2071 Key Border Generator provides a border line option for theThe BKDS2072 CPU Upgrade and Memory Enhancement increases the amount ofThe enhancement is also required for 2Channel DME wipe control.The BZS2090A Memory Pack provides removable storage for 99 switcher panelThe BKDS6080 Serial Tally Decoder provides the necessary electronics for aThree lengths are available. RCC5G, 5 meters. RCC10G, 10 meters. RCC30G, 30 meters. RCC cables are required to connect the switcher chassis to RS422 devices. NoteThe RMM30 Rack Mount Kit allows the DVS2000C to be rackmounted in a. Order Guide — DVS2000C. Fax Cover. To. From. Date. Pages. Message. Customer Information. Company Name. Address. Phone. Fax. Contact. Title. Instructions. The Request Form on the following page includes a table of all DVS2000C system components. Use the tablePlease perform the following steps. As a prerequisite, review the information in the "Installation Guide" chapter. Complete the customer information section above. In the Request Forms section, use the two charts as follows.

In the "DVS2000C Input Configuration" chart, check off the one input configuration requiredSystem Components" chart. In the "DVS2000C System Components" chart, check off the basic and optional itemsSend the completed forms to your local Sony Sales Representative to receive a detailed DVS2000CFor submitting the completed proposal, the area at the top of this page can be used as a

convenient faxRequest Forms. This section includes two charts. DVS2000C Input Configuration chart. DVS2000C System Components chart. DVS2000C Input Configuration Chart. Check off the one input configuration required, note the quantity and format of input boards that support the desired DVS2000C Input Configuration. Input. Configuration Required Check off the basic and optional items required. Recommended items for a basic DVS2000C system are marked with an. X in the “Rec” column. Mark quantities where appropriate, exceptions, and comments in the “Notes” column. DVS2000C System Components. Description. RecNotes. BasicsRequired to initiate the DVS2000C. Input ConfigurationOptions and UpgradesSystem accepts 1. BKDS2031 is required. UserProvides 4 Aux buses. Used for offline effects storage. Select one per RS422 control deviceInstallation Guide. DVS2000C Installation. This chapter provides information and diagrams to assist with facility engineering andThe following sections are included. The “DVS2000C Control Panel” section provides detailed controlThe “DVS2000C Chassis” section provides detailed chassis diagramsThe “DVS2000C Connectors” section provides comprehensiveTwo detailed diagrams are also provided at the end of the chapter. DVS2000C System Interconnection Chart — Video. DVS2000C System Interconnection Chart — Control. DVS2000C Control Panel. This section includes four areas. Control Panel Top View. Control Panel Rear View. Control Panel External Dimensions. Control Panel Specifications. The figure below illustrates a top view of the DVS2000C Control Panel.Control Panel Rear View.

The figure below illustrates a rear view of the DVS2000C Control Panel.Rear Control Panel components are listed belowControl Panel External Dimensions. The figure below illustrates external Control Panel dimensions in millimeters. Top ViewDVS2000C External Control Panel Dimensions. The following table lists Control Panel specifications. DVS2000C Control Panel Specifications. Parameter. Specification. DimensionsWeight approximate.Processor connectorTerminal connectorAC InOperating temperature. For operation withinPower consumption. DVS2000C Chassis. Chassis Front View. Chassis Rear View. Chassis External Dimensions. Chassis Specifications. The figure below illustrates a front view of the DVS2000C chassis.Front chassis components are listed belowChassis Rear View. The figure below illustrates a rear view of the DVS2000C chassis.Rear chassis components are listed belowSerial Tally Dsub 9pin RS422A. EXT Dsub 25pin. Not active. Terminal Dsub 9pin RS232C. DME Dsub 9pin RS422A. Chassis cooling fans. Program output group; serial digital video. Edit Preview output group; serial digital video. Assignable output group; serial digital video. Primary input group; serial digital video and analog component video. Reference output; analog sync signal. Reference input group; analog black or sync. GPI Dsub 25pin. Panel Dsub 9pin RS422A. Editor A Dsub 9pin RS422A.