

# **DVS-7350/7300 System**

**Digital Video Switcher**

**.BZS-7010A** Operating Software

**.BZS-7020A** Operating Software

**Version 5.25**

**SOFTWARE UPGRADE**

**Installation and Operation Manual**

# **CONFIDENTIAL**

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## 1. Summary of Parts Required

### DVS-7000A

Main Kit Number	Kit Description	Notes
DS7020A15	3 Floppy Disks V5.00 User Guide V5.10 User Guide Supplement 1 V5.20 User Guide Supplement 2 This Document	This kit is the Main BZS-7020A software

### Additional Parts Available (If Required)

Part No. or Kit Number	Kit Description	Notes
BKDS7000K1	Hardware Upgrade Kit	CPU for Processor Only
BKDS7000K2	Hardware Upgrade Kit	CPU for Control Panel and Processor
BKDS-7280	ME Preview Board	Required for use of SHOW KEY function
8-759-570-10	BKDS-7001 (10,101 and Higher) with Communication IC Version SI08	Required to control VTR and P2 protocol device from a control panel
T998-600-45	VTR Control Key Overlay	To label buttons on the BKDS-7031 for VTR control

## 2. Version Upgrade Procedure

### 2-1. Pre-Installation

#### Notes on Saving Data and Settings:

- The following listed data stored in DVS-7350A is erased when V5.25 of BZS-7020 is installed. This data should be saved to disk prior to installation of new software.

SETUP DATA

WIPE SNAPSHOT DATA

KEYFRAME EFFECT DATA

CHROMA KEY MEMORY DATA

SNAPSHOT DATA

DME WIPE SNAPSHOT DATA

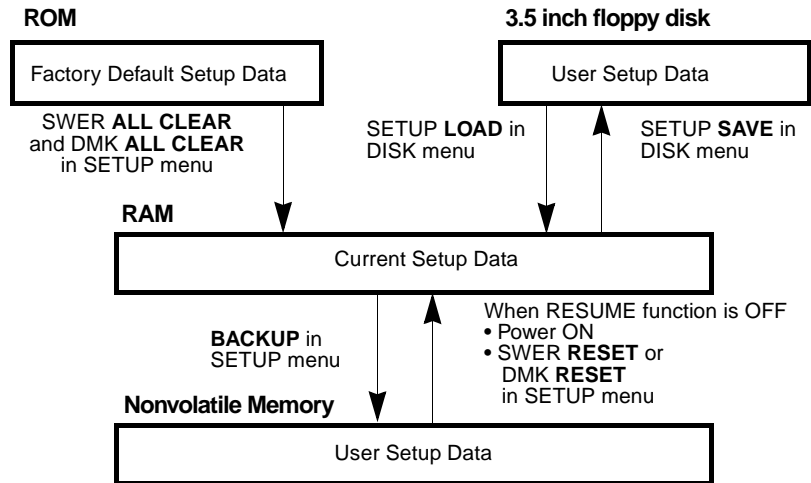
KEY MEMORY DATA

KEY SNAPSHOT DATA

- The setting of the system Signal Format and the Panel Port are not saved to disk as part of the Setup data. Please make note of these settings if they need to be reentered after the upgrade.

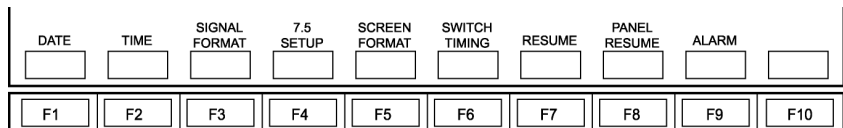
#### Notes on Saving and Recalling Data:

- For WIPE snapshots, DME WIPE snapshots, and KEY snapshots, it is only possible to save the complete set of the particular snapshot file in one operation. It is impossible to save by specifying a particular register on a particular M/E bank.
- The KEY MEMORY data can only be saved as a complete set, that is, all KEY MEMORY data for all keyers together.
- For SWITCHER data, it is not possible to carry out the save/load operation on individual sub-registers (i.e., a particular register on a particular M/E bank).
- The RESUME function must be OFF when the DVS-7000/DMK-7000 is powered on or reset in order for the User Setup data stored in nonvolatile RAM to be loaded automatically.
- SNAPSHOT data, KEY FRAME data and SETUP data from the previous version is compatible with V5.25.
- User Default data is not saved as part of setup. This data must be saved as a snapshot. Refer to section 2-1-2 below.

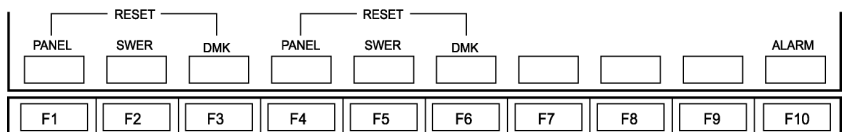


### 2-1-1. Confirm User Setup Data is in RAM

1. Press the [SETUP] button in the menu control section of the control panel to display the SETUP MENU.
2. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
3. Press SYSTEM SETUP and the SYSTEM SETUP MENU is displayed with the following function key assignments:



4. Press [F7] RESUME and [F8] PANEL RESUME and set to OFF.
5. In the SYSTEM menu, press [F6] INITIALIZE and the INITIALIZE MENU is displayed with the following function key assignments:



6. Press [F2] SWER RESET, [F3] DMK, and then press [F10] EXEC. The display is changed to display the YES / NO selection:

								YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

7. Press [F9] YES. The switcher processor is reset and the SETUP data which was saved in NONVOLATILE MEMORY is loaded in the working area of RAM.

## 2-1-2. Save User Defaults to Snapshot Register

1. In the numeric keypad section of the control panel, confirm that SNAPSHOT is lit, and that all regions of the switcher are lit (M/E1, M/E2, M/E3, P/P, DSK, USR).
2. Confirm that all Key, Wipe, Crosspoint settings are what you want for defaults (settings restored after a RESET or power ON with RESUME OFF).
3. Select LEARN and save data to an unused register.

## 2-1-3. Save User Setup Data to Floppy Disk

1. Press the [DISK] button in the DISPLAY PANEL key section to display the DISK MENU.
2. In the Numeric Keypad Section of the control panel, confirm that EFFECT or SNAPSHOT is lit, and at least one or more of the M/E1, M/E2, M/E3, P/P, DSK, or USER buttons is lit.
3. Select [3] SETUP, then press [F1] SAVE.
4. Select [F7] SETUP:
  - a. Using the numeric keypad, enter the file number (1-4) to be saved, then press ENTER.
  - b. Press [F10] to begin execution.
  - c. The display will change to display the YES / NO selection. Press [F9] YES.
5. Repeat the previous step selecting [F8] KEY MEMORY.
6. Select [4] MISC, then press [F1] SAVE.



7. Select [F7] WIPE:
  - a. Using the numeric keypad, enter the file number (1-4) to be saved, then press ENTER.
  - b. Press [F10] to begin execution.
  - c. The YES / NO selection is displayed. Press [F9] YES.
8. Repeat the previous step, selecting [F8] DME WIPE.
9. Repeat again, selecting [F9] KEY.
10. Select [2] SNAP SHOT, then press [F1] SAVE.
11. Select [F7] ALL, [F8] BLOCK, or [F9] ONE to save desired snapshot registers:
  - a. Using the numeric keypad, enter the register numbers.
  - b. Press [F10] to begin execution.
  - c. The YES / NO selection is displayed. Press [F9] YES.
12. Select [1] EFFECT, then press [F1] SAVE.
13. Select [F7] ALL, [F8] BLOCK, or [F9] ONE to save desired **effect** registers:
  - a. Using the numeric keypad, enter the register numbers.
  - b. Press [F10] to begin execution.
  - c. The YES / NO selection is displayed. Press [F9] YES.

## 2-2. BZS-7020A Operating Program Version Up

1. Press the SETUP button in the DISPLAY PANEL key section to display the SETUP MENU.
2. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
3. Press [F10] INSTALL and the INSTALL MENU is displayed with the following function key assignments:

	DVS7000 SYSTEM	BKDS 7370	BKDS 7444						EXEC
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

4. Press [F2] DVS7000 SYSTEM, then press [F10] EXEC.

5. The following message is displayed:

Insert the OPERATING PROGRAM 1

6. Insert the OPERATING PROGRAM 1 V5.25 floppy disk (DVS-7000 Switcher Processor software) in the floppy drive.

Do you want to load OPERATING PROGRAM

The above message is displayed automatically and the function key assignment is changed to display the YES / NO selection:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	

7. Press [F9] YES and the program will start. It will take about five minutes to complete.

After disk one has been loaded, the system will prompt for disk two and then disk three.

**NOTE:** For **DVS-7300A** system (3 M/E without DMK-7000), when prompted for disk three (DMK7000 software) after removing disk two, do **not** insert disk three. Simply press [F10] EXEC to complete the installation.

8. Insert the appropriate disk, and press [F10] EXECUTE to continue. When all software has been loaded, the following message is displayed automatically.

Load Complete.

**NOTE:** If you have just installed an Advanced Wipe option board, you must now load its software:

BKDS-7370 : section 2-2-1    -or-    BKDS-7444 : section 2--1

## 2-2-1. BKDS-7370 Advanced Wipe Option Software

1. After pressing "[F3] BKDS-7370" in the INSTALL MENU, press [F10] EXEC.

	DVS7000 SYSTEM	BKDS 7370	BKDS 7444						EXEC
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

The following message is displayed:

**Do you want to load the BKDS-7370 PROGRAM?**

The function key assignment will change to display the YES / NO selection:

								YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

2. Press [F9] YES.

Loading is in progress automatically, with the following message displayed when file transfer is complete:

**WKG27 BUSY**

When installation is complete, the following message is displayed:

**Done load the BKDS-7370 PROGRAM**

3. Press [F10] to EXIT.

## 2-2-2. BKDS-7444 Advanced Wipe Option Software Installation

1. After pressing "[F4] BKDS-7444" in the INSTALL MENU, press [F10] EXEC.

	DVS7000 SYSTEM	BKDS 7370	BKDS 7444						EXEC
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

The following message is displayed:

**Do you want to load the BKDS-7444 PROGRAM?**

The function key assignment is changed to display the YES / NO selection:

								YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

2. Press [F9] YES.

Loading will begin automatically, with the following message displayed when file transfer is complete:

**MY95 BUSY**

When installation is complete, the following message is displayed:

**Done load the BKDS-7444 PROGRAM**

3. Press [F10] to EXIT.

## 2-3. Confirmation of Version Installed

1. Press the SETUP button in the DISPLAY PANEL key section to display the SETUP MENU.
2. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
3. Press [F7] INFORMATION to display version numbers for programs currently installed.

4. Confirm that the following versions are displayed.

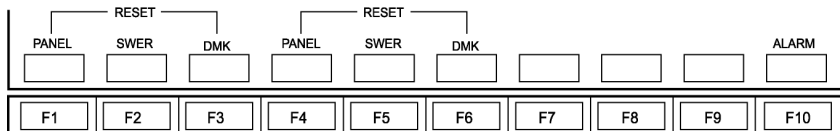
INFORMATION			
BZS-7010/7020			
PROGRAM 1	:	Version 5.25	
PROGRAM 2	:	Version 5.25	
SUB	:	Version 3.30	
FONT	:	Version 1.04	
PROGRAM 3	:	Version 5.25	
DVS-7000			
BOOT ROM	:	Version 1.00	
DMK-7000			
BOOT ROM	:	Version 1.00	
BKDS-7010			
MAIN ROM	:	Version 1.01	1997/07/10
SUB ROM	:	Version 3.21	
FONT ROM	:	Version 1.00	

5. Press the [F1] OPTION button to display the versions loaded for BKDS-7370 and BKDS-7444.

## 2-4. Initialization of RAM and NONVOLATILE MEMORY

After the software has been loaded, you must initialize the system RAM and NONVOLATILE MEMORY.

1. Press the [SETUP] button in the TOP MENU key section to display the SETUP MENU.
2. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
3. Press [F6] INITIALIZE and the INITIALIZE MENU is displayed with the following function key assignments:



4. Press [F5] SWER and [F6] DMK ALL CLEAR, then press [F10] EXEC. The display is changed to the YES / NO selection:

									YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	

5. Press [F9] YES. The system reboots.

The default values of the SETUP data in the RAM area are stored in NONVOLATILE MEMORY.

6. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
7. Press [F5] BACKUP and the BACKUP MENU is shown with the following function key assignments:

BACKUP SETUP	DEFAULT		UNLOCK	SETUP LOCK LOCK ALL	LOCK WO.XPT				EXEC
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

8. Press [F1] SETUP and [F2] DEFAULT, then press F10 (EXEC).

**Do you want to BACK UP the system?**

The above message is displayed automatically and the function key assignment is changed to display the YES / NO selection:

									YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	

9. Press [F9] YES.

All of the RAM area and NONVOLATILE MEMORY is initialized, and the factory default values of the SETUP data are stored in RAM and NONVOLATILE MEMORY from the program software.

## 2-5. Load File Data from the Floppy Disk

1. Press the [DISK] button in the DISPLAY PANEL key section to display the DISK MENU.
2. Load the SETUP, SNAPSHOT, KEY FRAME, and MISC data files from the floppy made before the version upgrade (refer to section 2-1-2).
3. For details of the LOAD operation, refer to Chapter 10 in the User's Guide.
4. In the Numeric Keypad Section of the control panel, select SNAPSHOT and all regions of the switcher (M/E1, M/E2, M/E3, P/P DSK, or USER).
5. Recall the snapshot you saved before the upgrade with the user defaults. (Refer to section 2-1-2.)
6. Press the [SETUP] button in the DISPLAY PANEL key section to display the SETUP MENU.
7. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
8. Press [F5] BACKUP and the BACKUP MENU is shown with the following function key assignments:

BACKUP				SETUP LOCK		LOCK								EXEC	
SETUP	DEFAULT		UNLOCK	LOCK ALL	LOCK WO.XPT										
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10						

9. Press [F1] SETUP and [F2] DEFAULT, then press F10 (EXEC).

Do you want to BACK UP the system?

The above message is displayed automatically and the function key assignment is changed to display the YES / NO selection:

									YES	NO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	

10. Press [F9] YES.

11. Press the [SETUP] button in the menu control section of the control panel to display the SETUP MENU.
12. Press the [1] SYSTEM button in the Item Selection Block (left side of display panel).
13. Press SYSTEM SETUP and the SYSTEM SETUP MENU is displayed with the following function key assignments:

DATE	TIME	SIGNAL FORMAT	7.5 SETUP	SCREEN FORMAT	SWITCH TIMING	RESUME	PANEL RESUME	ALARM	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10

14. Press [F7] RESUME and [F8] PANEL RESUME and set to ON.

**NOTE:** With RESUME “ON”, after power ON or RESET, the switcher will return to the state at the time of power OFF or RESET (battery backed-up RAM).

With RESUME “OFF”, the switcher will return to the state saved in BACKUP.

If it is important that the switcher always returns to a specific state, then leave RESUME “OFF”.

**This completes the V5.25 upgrade procedure.**

### 3. Outline of Software Changes

#### 3-1. Version 5.00

##### 3-1-1. New Hardware Option Support

- The BKDS-7271 Advanced/FineKey Border Option provides all of the features of the BKDS-7270, with the addition of soft edges (available in all modes) and FineKey sub-pixel edge processing.

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**NOTE:** For each M/E, either a BKDS-7270 or BKDS-7271 may be installed.

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- The BKDS-7420 Color Corrector Board offers primary and secondary color correction for the DVS-7350A system. This option includes a convenient software program with an interface adapter that adds the operation of the Color Corrector and Frame Memory



options onto a PC (running Windows® NT or Windows 98). The software also provides the additional features of histogram and drag-and-click color curve adjustment.

- The BKDS-7113 and BKDS-7163 are new SDI input and output options for the DVS-7000A/7200A and DMK-7000.

### 3-1-2. New Features

- Disk Operation Enhancement—It is now possible to save and load all Snapshot, Effect, and Setup data with a single function in the Disk Menu. It is also possible to save and load just the user operation settings from setup. These operations can be performed from the newly added 5(UTILITY) option in the DISK menu which supports F1(ALL SAVE), F2(ALL LOAD) and F3(OPERATION SETUP). [User Guide page 10-15]
- VTR Interface—Two VTRs can be controlled from the control panel and included in Keyframe effects. The DME5 and DME6 buttons can be configured to be VTR1 and VTR2 in SETUP → 4(PERIPH) → F9(PANEL PORT) menu [User Guide page 14-62]. The REGISTER, DISK and KEYFRAME menus have been enhanced to allow for save and recall of VTR1 and VTR2 time code data. [User Guide page 13-7]
- Initialize Panel Only—F1(PANEL) and F4(PANEL) are added to SETUP → 1(SYSTEM) → F6(INITIALIZE) menu to reset or initialize(ALL CLEAR) only panel. [User Guide page 14-17]
- Utility button Assignment of GPI Trigger—DVS GPI 1 through 8, and DMK GPI 1 through 8 Test Fire can now be assigned to the Utility buttons. This setting can be done from SETUP → 5(OPERATION) → F9(UTILITY) → F3(COMMAND). [User Guide page 14-92]
- User Define of ALL button (10 Key Pad)—The delegations selected when pushing ALL button in 10 Key Pad are now User Definable. This setting can be done from SETUP → 5(OPERATION) → F5(OPERAT MODE) → F8(PROGRAM BUTTON) → F10(DEFINE ALL) menu. [User Guide page 14-80]
- Disable of LAST X button (10 Key Pad)—LAST X button in 10 Key Pad area can be disabled by F9(KEY PAD LAST X) setting in SETUP → 5(OPERATION) → F5(OPERAT MODE) → F7(CUSTOM MODE) menu. [User Guide page 14-82]

- Expansion of EXT AUX bus (Router Interface). The number of Router Destination, which can be interfaced via BKDS-7700, is expanded to 36. [User Guide page 14-56]
- Multi Pause—Up to 8 pause points per timeline (effect) is implemented. [User Guide page 8-27]
- MASK/EDGE Process Sequence (Priority) Setting Sequence between KEYER MASK process and KEYER EDGE process can be set by F6(MASK PROC) in SETUP → 4(EFFECT) → F3(KEYER) menu. [User Guide page 14-44]
- KF Path Enhancement for Video Proc.—Interpolation between KFs for Video Proc. is available by setting the KF Path to LINEAR or S-CURVE. [User Guide page 8-24]
- Edit Enable Auto Off—Edit Enable Auto Off mode is newly added to turn off Edit Enable automatically when recalling an effect. This can be set by F2(EDIT ENABLE AT OFF) in SETUP → 5(OPERATION) → F5(OPERAT MODE) → F6(KF MODE) menu. [User Guide page 14-80]
- Auto Save Off—Auto Save Off mode is newly added to inhibit saving the effect recalled previously into the register automatically when recalling a new effect. This can be set by F1(AUTO SAVE) in SETUP → 5(OPERATION) → F5(OPERAT MODE) → F6(KF MODE) menu. [User Guide page 14-80]
- KF Capability for DMK-7000 Frame Memory (DMK-7000 Feature)—The functions of BKDS-7443 (DMK Frame Memory) are now keyframable.
- Output Assignment for Safe Title (BKDS-7163 Only)—The outputs, which Safe Title can be added, are now assignable, if BKDS-7163s are installed. Up to 4 outputs per DVS-7000A/7200A/DMK-7000 can show Safe Title at a time. The outputs, which can show Safe Title in previous version, are still able to show Safe Title even with BKDS-7161/7162.

## 3-2. Version 5.01

### 3-2-1. Problems Corrected

- On D2-525 systems, with the SYSTEM CONFIG set to for “SEPA” (switcher system without the DMK-7000), the Y/C separation of the Frame Memory has been improved. SETUP → 1(SYSTEM) → F4(SYSTEM CONFIG) → F2 (SYSTEM CONFIG) menu.

- In D2 system, when using Frame Memory in combination with BKDS-7445, Field Freeze mode did not work well. Also, Memory could not be cleared in even if executing "CLEAR".

### 3-3. Version 5.02

#### 3-3-1. Problems Corrected

- When editing without setting KF REG.# in BVE-9100, the recalled KF REG.# of DME/DVS wasn't saved to the EDL of BVE-9100 with the correct KF REG.#. For instance, when editing with setting KF REG.#5 in BVE-9100 manually, EDL of BVE-9100 reflected the KF REG.#5 of DVS/DME. However, after that, when recalling REG.#6 from DVS/DME and opening NEW EDIT in BVE-9100, EDL of BVE-9100 reflected KF REG.#5. Unless setting KF REG.# in BVE-9100 manually, EDL reflected KF REG.#5 all the time. When editing with setting KF REG.# automatically just after turning BVE-9100 on, EDL reflected REG.#0.
- If SWITCH TIMING, in SETUP [SYSTEM](SYSTEM SETUP), was NOT set to "ANY", the following problem would occur;
- When recalling DME Snapshots, occasionally AUX buses for the DME were not recalled correctly.
- When performing ALL CLEAR, all connected Router destination were changed to Source#2., Router Destinations also were switched automatically when a RESET was performed.
- In the previous version when a snapshot of M/E2 and M/E3 was recalled, the crosspoint of M/E2 would revert to the crosspoint selected before the snapshot was recalled, in the following case:
- XPT DISABLE attribute of M/E3 only is set to on.
- A transition on M/E2 is performed using the fader lever.
- The M/E2 crosspoint will revert to the previous state.
- The KEY2 Bus would incorrectly tally High if Key 2 was set for Chroma Key with one of the analog inputs as the chroma key source.
- When entering a value of VTR control REG. to SHOT BOX, a double figure REG no. could not be entered.
- Transition Rate of FTB cannot be set in STATUS menu.
- The specification has been changed from previous versions, so it is no longer possible to load DME effects while DME-Link is enabled

### 3-4. Version 5.03

#### 3-4-1. Problems Corrected

- Using BKDS-7271, KEY 3(EDGE) menu F3(DROP BORDER) or F4(SHADOW) is selected, after turning F6(4H DROP) OFF, F7(SOFT EDGE) isn't displayed.
- Any control from Editor, such as Snap Shot Recall, could not work after performing "SWER LEARN" in BVE-9100.
- Output board could not to be recognized at turning the power on, and noise like a sandstorm shows up on the output.

### 3-5. Version 5.11

#### 3-5-1. New Hardware Option Support

- The BKDS-7370 Advanced Wipe Generator Option provides rotary, mixed, and karaoke patterns. Edge trail, spring, spiral, slats and multiple modifiers may be added, providing thousands of creative variations. [User Guide page 4-149]

**NOTE:** For each M/E, either a BKDS-2070 or BKDS-7370 may be installed.

- The BKDS-7444 Still File Option Board provides a pool of 36 video or key images for instant recall into either of the two frame memory systems of the DVS-7350A processor. Sixteen frames are stored in non-volatile flash memory and therefore, not susceptible to power interruptions. Twenty frames are stored in volatile memory. Access is via menu function on the STILL FILE button (Next to DISK button). [User Guide page 6-18]

**NOTE:** Requires BKDS-2041 Frame Memory Board.

#### 3-5-2. New Features

- Show Key Function—The Show Key function is newly added to allow the key signal on an ME to be previewed. Holding down a keyer selection button in an ME for at least one second will automatically show the key signal for that keyer for a preset time, on the Edit Preview bus. To use, the Auto Preview 2 mode must be enabled; SETUP → 2(INPUT/OUTPUT) → F7(OUTPUT ASSIGN) → F10(AUTO PVW2). The preset time for displaying the key can be changed in SETUP → 3(EFFECT) → F3(KEYER) → F7(SHOW KEY). [User Guide page 14-41]

**NOTE:** Requires BKDS-7280 ME Preview Board.

- VTR Program Play Mode — When playing a VTR from the switcher control panel, it is possible to play the VTR at a preprogrammed speed. The speed can be set on the menu in SETUP → 4(PERIPH) → F9(PANEL PORT) → F2(VTR IF). [User Guide page 14-65]
- Flexipad Mode 3—A new Flexipad operation mode has been added. When mode 3 is selected, the SHIFT button will lock ON when pressed. This allows registers 11 through 19 to be selectable by one keystroke. This is similar in operation to Mode 2, except in Mode 3, the registers are shifted until you press the SHIFT button again to release the lock. [User Guide page 14-78]
- Snap Shot Attribute Operation—It is now possible to set the mode of the EFF DISS and AUTO TRANS button of the Flexipad. Mode 1 is the conventional operation. In Mode 2 when a register is recalled, the snapshot is recalled according to the attributes of the button which is lit. When the button is not lit, the snapshot is recalled according to the attributes saved in the register. Set on the menu as follows; SETUP → 5(OPERATION) → F5(OPERAT MODE) → F7(CUSTOMER MODE) → F10(MORE)MENU → F1(FLX PAD ATRB MODE). [User Guide page 14-80]

### 3-5-3. Problems Corrected

- When executing a keyframe effect more than once with the fader lever, the switcher might be ALL CLEARED if the effect contains a wipe pattern which has been repositioned, and the wipe position is the same on KF1 and KF2.
- When connected to the BVE-9100, when a SWER LEARN is performed, the AUX Bus setting is not recalled correctly.

## 3-6. Version 5.12

### 3-6-1. Problems Corrected

- When executing a wipe transition on a system with the BKDS-7370 Advanced Wipe installed, a slight border could be seen if width was set to zero, regardless of the On/Off setting for Border.
- Names of the following signals were not displayed on Control Panel setup menu.  
ME2 CHR KEY KEY  
ME2 KEY1 PROC VIDEO  
ME2 KEY1 PROC KEY

ME2 KEY2 PROC VIDEO

ME2 KEY2 PROC KEY

DSK1 PROC VIDEO

DSK1 PROC KEY

DSK2 PROC VIDEO

DSK2 PROC KEY

- The Transition rate of DSK1/2/3 could not be set using the TRANS RATE button of the numeric keypad section.
- Occasionally, when recalling a snapshot, XPT DISABLE did not work for External Aux buses.
- When controlling a DME from the switcher panel, in the DME SETUP → 2 → F5(AUTO KEY) menu, when the F6(SOURCE) function was pressed, the AUX Bus buttons did not light.
- When controlling a DME from the switcher panel, in the DME STATUS → 3(MATTE) menu, when the F1(GRAB MARKER) function was set ON (for Color Pick operation), the marker could not be adjusted with the track ball.

### 3-7. Version 5.20

#### 3-7-1. New Features

- The DME WIPE function has been enhanced to include 144 new preset patterns. [Supplement page 14]

When installing DME-7000 software V3.20 and higher or DME-3000 live-version software V3.10 and higher, The following DME-7000/3000 wipe patterns are available.

1500 - 1541, 1550 - 1577, 1600 - 1665, 1670 - 1678, 1700 - 1702  
[Supplement Appendix for wipe descriptions]

- Crosspoint Assign for each ME block. [Supplement page 1]  
The crosspoint assignment can now be set independently for each ME. Also, the crosspoint buttons of each ME can be assigned to another ME to extend the number of unshifted crosspoint buttons of a ME. The setting is available in menu SETUP → 5(OPERATION) → F3(XPT ASSIGN)→ F9(ME BUTTON RE-ASSIGN).
- The VTR control function from the control panel has been improved. [Supplement page 16]
  - Over-run time(VTR constant), which is time between executing and completing STOP command, can be set. Setting is available

in menu, SETUP → 4(PERIPH) → F9(PANEL PORT) → F2(VTR IF) → F7(VTR CONST).

- Trim input is available when entering time code data in the menu, REGISTER → SHIFT+1(VTR) → F4(TC).
- When setting a time code of START command to a point that is later than a time code of STOP command, PLAY command does not execute even if pushing RUN button. Therefore, STILL picture in CUE UP is available.
- Protocol for new-type pen tablet. [Supplement page 15]
- The protocol for the new Intuos series pen tablet made by WACOM, now is supported.
- On-air tally for input signal of Frame Memory picture is now supported.
- Switchable REGS MENU MODE. [Supplement page 28]

In former version, register menu indicated data existence for each register, so EFF button or SNAPSHOT button in the ten key pad had to be pushed to indicate register name. In V5.20 software, register name is indicated when opening REGISTER menu, and data existence is now indicated when pushing EFF or SNAP SHOT button in the ten key pad. The setting for this operation is available in menu SETUP → 5(OPERATION) → F5(OPERAT MODE) → F7(CUSTOM MODE) → F10(MORE) → F2(REGS MENU MODE).

- MODE1: data existence in a register is indicated when opening REGISTER menu.
- MODE2: register name is indicated when opening REGISTER menu.
- The multi button press operation of AUTO TRANS and KF RUN can be set. [Supplement page 26]

In former version, when executing an AUTO TRANS or KF RUN, the operation was paused when the button was pressed a second. Subsequent presses would continue or pause the operation until the end. In V5.20 software, this feature can be enabled or disabled in menu SETUP → 5(OPERATION) → F5(OPERAT MODE) → F7(CUSTOM MODE) → F10(MORE) → F3(KEY MIX&AT TR BUTTON) or F4(KF RUN BUTTON).

- Initialization of communication between a control panel and a switcher processor. [Supplement page 17]

A function for initialization of communication between the control panel and the switcher processor has been added. The new func-

tion is available is menu SETUP → 1(SYSTEM) → F6(INITIALIZE) → F7(SWER COM RESET).

- Bus setting for AUTO PVW2 function is now supported. [Supplement page 18]
- It is now possible to specify which Aux buses are affected by the AUTO PVW2 function. The setting is available in menu, SETUP → 2(INPUT/OUTPUT) → F9(OUTPUT ASSIGN) → F10(AUTO PVW2).
  - DSBL: AUTO PVW2 function is disabled.
  - EDPVW: AUTO PVW2 function is enabled only for the EDIT PREVIEW bus.
  - ALL: AUTO PVW2 function is enabled for all AUX buses.
- Bus setting for Show Key is now supported. [Supplement page 19]

It is now possible to specify which Aux buses are affected by the SHOW KEY function. The setting is available in menu, SETUP → 3(EFFECT) → F3(KEYER) → F7(SHOW KEY MODE).

- OFF: Show Key function is disabled.
- EDPVW: Show Key function is enabled only for the EDIT PREVIEW bus.
- ALL: Show Key function is enabled for all AUX buses.

The display duration of the key signal can now be set in the menu F8(SHOW KEY DUR).

- Peripheral 2 and GPI Timeline function [Supplement page 4]  
The P2 and GPI timeline functions allows Peripheral 2 triggers for individual devices (ID 0 to 23) as well as GPIs to be inserted on the timeline and executed as effects.
- Refresh function for DMK-7000 Crosspoint data. [Supplement page 30]

If the crosspoint data of the DMK-7000 is not the same as the DVS-7000A (causing the DMK-7000 "Multi Crosspoint Assign" error message), this new function can refresh the DMK-7000's table. SETUP → 1(SYSTEM) → F4(SYSTEM CONFIG) → F10(MLT XPT ASSIGN) → F5(DMK XPT REFRESH).

- The NAM and SUPER MIX button of Transition Control section can now be reprogrammed. [Supplement page 25]

The NAM and the SUPER MIX button in transition control section of each ME block can be changed to KEY1 ON and KEY2 ON or KEY1 MIX and



KEY2 MIX button. Setting is available in menu SETUP → 5(OPERATION) → F5(OPERATE MODE) → F8(PROGRAM BUTTON).

- Switching EDIT PVW bus using DSK Control section. [Supplement page 32]

Preview Signals on the EDIT PVW bus can be switched using buttons in the DSK control section. Selectable signals are M/E1 PVW, M/E2 PVW, M/E3 PVW, PRESET and DIRECT IN only. Setting is available in menu SETUP → 5(OPERATION) → F5(OPERATE MODE) → F8(PROGRAM BUTTON). When using this function, NORM, REV, and NORM/REV functions should be accessed via the DSK WIPE menu.

- Safe title of DSK4 PVW and EDIT PVW output can be linked together. [Supplement page 29]

When using AUTO PVW2 function, ON/OFF of safe title for EDIT PVW output signal can automatically turn ON/OFF safe title for DSK4 PVW.

- NEXT TRANSITION setting selected by the NEXT TR ALL button. [Supplement page 31]

When NEXT TR ALL is assigned to the blank programmable button in the transition control section of the PGM/PST bank, you can specify the regions (BKGD, DSK1 – DSK4) selected when the button is pressed. Setting is available in menu SETUP → 5(OPERATION) → F5(OPERATE MODE) → F8(PROGRAM BUTTON) → F9(DEFINE NEXT TR ALL).

- The interpolation of DME EXT VIDEO can be set from the switcher control panel. Setting is available in menu IN/OUT → 4(INTERPOLATION) → F3(FRONT EXT)/F6(BACK EXT).
- The CROP of DME video signal is selectable ON/OFF from the switcher control panel. Setting is available in a menu DME SETUP → 2 → F9(PROC CTRL2) → F3(VIDEO CROP).

### 3-7-2. Problems Corrected

- If no region is selected in the ten-key section when a keyframe effect is recalled, the video could change in an unpredictable manner when the regions are then selected.
- In KEY FRAME → F4(RUN MODE) menu, F5(DME GPI OUTPUT#4) did not work correctly.

## 3-8. Version 5.21

### 3-8-1. Problems Corrected

- When recalling locked effect register and deleting all key frames of the effect register, the status of the effect register was incorrectly indicated as “EMPTY”.
- If a button has a different name from a primary's, the signal's status could not be changed in the following menu: Setup → 2 (INPUT / OUTPUT) → F3(SWER INPUT).
- Name of Destination 17 and higher could not be indicated in a menu: Setup → 4 (PERIPH) → F6(ROUTER IF).
- Shift + F10 (DEFAULT) could not function normally in the following menu: Setup → 5 (OPERATION) → F3(XPT ASSIGN) → F9 (M/E BUTTON RE-ASGN) → F1 (ME), F2 (ME2), F3 (ME3), F4 (PP).
- F4 (PP) could not function normally in the following menu: Setup → 5(OPERATION) → F3 (XPT ASSIGN) → F9 (M/E BUTTON RE-ASGN).
- When turning OFF Re-Entry in the following menu: Setup → 4 (PERIPH) → F5(DME IF), Shift button did not light even if pushing Shift button on AUX bus block and pushing F3(BUTTON NO.) on EL display.

## 3-9. Version 5.23

### 3-9-1. New Features

- The operation of the CUT and AUTO TRANS buttons can now be swapped. The setting is available in menu SETUP→ 5 (OPERATION) →F5 (OPERAT MODE)→F7 (CUSTOM MODE) →F10 (MORE) F5 (AUTO/CUT BUTTON).
  - Mode 1 : Operation remains unchanged. (Default setting)
  - Mode 2 : The function of the AUTO TRANS button and that of the CUT button are swapped (similar to GVG, style).
- Peripheral 2 and GPI Timeline commands. The functions of P2TL TEST FIRE, P2TL ENABLE and P2TL GPI ENABLE have been added to menu SETUP→ 5 (OPERATION)→ F9 (UTILITY)→ F3 (COMMAND). These functions can be assigned to any button in the Utility section.

### 3-9-2. Problems Corrected

- In SETUP→ 5 (OPERATION)→ F10 (SHOTBOX) menu, The DME 3/4/5/6 display is changed in accordance with the setting made in SETUP→ F9(PANEL PORT)→ F4 (DEVICE1 SELECT)/F5 (DEVICE2 SELECT) menu.
- The FTB function would operate even when DSK1 to DSK4 Fade To Black is set to disable. SETUP→ 5 (OPERATION) → F6 (PANEL ENABLE) menu → F7(DSK1) to F10(DSK4) → DSBL .
- If the RUN MODE menu was assigned to a Utility button, it could not be selected with this button if the KEY FRAME→ F2 (EXPAND)/ F3 (DETAIL) is displayed. SETUP→ 5 (OPERATION)→ F9 (UTILITY)→ F1 (USER MENU)
- The duration between a PAUSE and another PAUSE was repeated when an effect was executed by the KF fader using the P2 time-line, to which PAUSE is set, as the reference channel.
- When the BKDS-7111 (analog composite input board) and the BKDS-7161 (analog composite output board) are installed, the BKDS-7370 (advanced wipe board) was not recognized correctly if it was installed causing the functions unique to the BKDS-7370 to not operate.
- When a switcher key frame effect is recalled while executing a DME WIPE on another ME, the signal that is selected by the DME WIPE was changed to the other signal.
- The KEY SNAPSHOT button did not light when the same button was pressed.
- When the optional board BKDS-7180 of the DMK-7000, has the board suffix number –11, the DME WIPE could not be executed in either PGM/PST or DSK.
- An AUTOTRANS of a DME WIPE of a DSK would sometimes stop midway through the transition.
- The register data of the P2 time line is no longer cleared even when F1 (RESET PANEL) is executed in the menu SETUP→ 1 (SYSTEM)→ F6 (INITIALIZE).

### **3-10. Version 5.24**

#### **3-10-1. Problems Corrected**

- The DVS processor could reset while repeatedly executing snap-shots, if the ISR mode is set in the DIAG Terminal Mode menu.
- Dual Chroma Key snap shot does not work correctly, if a single key is performed and then the dual chroma key is recalled.
- The serial tally information or data in the frame memory bus is off by one.
- When the panel tally information of the frame memory bus is switched at In or Live, the tally information is not correct.
- When recalling the snap shot with separate edge set to ON using the Fine Key, the edge becomes soft with the BKDS-7271 option installed.

### **3-11. Version 5.25**

#### **3-11-1. Problems Corrected**

- During DME SETUP operation, when pressing PROC CTRL 2 after choosing DME CH1 or CH2, the panel would hang.
- When a KF duration was set to 0 and the NEXT KF and PREV KF buttons were pressed rapidly and repeatedly, the switchers were all cleared.
- There was an abnormal alarm display of Redundant Power Supply when the redundant power supply was installed. The algorithm that detects a momentary load change has been corrected so that the display is made only when a continuous abnormality occurs.
- When issuing E-File protocol from Accom Axial® editor, the DVS processor would hang while issuing the transition duration data.
- The Wipe Position could not be controlled with EL menu. When ORTHG button was selected in DME CTRL, the Y parameter of Wipe Position did not work in a downward direction.
- There was a bad display when copying between DME register channels from switcher panel. After making a channel copy, the status display of No.99 was the same as that of No.98.

- DME was not controlled from switcher panel, at power start-up because delegation of the DME occurred in a system consisting of several DMEs.
- In DISK menu, when EFFECT register for the DME was called with SHOT BOX function and the RUN button was pressed, EFFECT did not execute.

#### 4. Related Documentation

Bulletin	Model	Description	Date
202001303	DVS-7000 DVS-7000A	Fader Malfunction if Lever is Moved Too Quickly	10/29/2001
202001092	DVS-7000	Flicker on Monitor During Chroma Key Adjustment	03/05/2001
201999270	DVS-7000	Manual Corrections, Electrical Parts List	12/06/1999
201999243	DVS-7000	New Manual Supplements	11/15/1999
201999159	DVS-7000A	New Manual Supplements	10/04/1999
201999060	DVS-7000	New Manual Supplements	04/19/1999
201999049	DVS-7000	System Does Not Start Up	04/05/1999
201998294	DVS-7000	New Manual Supplements	12/21/1998
201998072	DVS-7000	New Manual Supplements	04/13/1998
201996202	DVS-7000	Hue Shift In ME PGM Output Video	10/21/1996
201996198	DVS-7000	Manual Correction-Location of Main Parts	10/21/1996
201996168	DVS-7000	Black Signal Noise-D1 525/625 Mode	08/26/1996
201996111	DVS-7000	Manual Correction-Connectors	05/06/1996
201996065	DVS-7000	Manual Corrections-Installation, Operation and Maintenance Manuals (1st Edition)	03/11/1996



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