SONY

Digital Video Switchers

DVS-7000 Series

(DVS-7350/7300 System)

DVS-7350/7300 System Digital Video Swi

Flexibility and operability in the largest of switcher system—that is what Sony brings to video production with the DVS-7350 and DVS-7300 System Digital Video Switcher and the DMK-7000 Digital Multi Keyer. Along with stunning picture quality, these switcher systems provide outstanding creativity for program makers in studio production control rooms, OB vans and post production suites.

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DVS-7350/7300 System Digital Video Switcher

The advanced technologies achieved by Sony's DVS Series digital switcher design team, and the wide ranging experience of Sony in the broadcast and the post production equipment market, are the synergy for the DVS-7000 Series Digital Video Switchers.

Two Alternative Versions —3M/E and 3M/E+PGM/PST Type

The DVS-7350 System or the DVS-7300 System can be configured around the DVS-7000 switcher processor. The DVS-7300 System is a three M/E switcher, while the DVS-7350 System includes an additional PGM/PST bank which has wipe, mix and DME transition capabilities. Each is designed to achieve optimum operation in its respective applications.

10 Simultaneous Keyers with Finekey™ and Advanced Wipe Pattern

Each of the three Mix/Effects systems of the DVS-7350/7300 System has two key buses and two independent key processors. With the new DMK-7000 Digital Multi-Keyer connected to the system, a total of ten simultaneous key layers are available.

In addition, a powerful key edge modifier equal to those of the DMK-7000 is available when the BKDS-7271 Fine Key/Key Border Board is installed. And when the BKDS-7370 Advanced Wipe Board is installed, various wipe patterns such as Rotary, Round Corner and Polygon, or Wipe modifier such as Spring, Spiral, Pairing and Pattern NAM can be realized.

Up to 36 Primary Inputs with Source Name Display

Up to 36 primary inputs are provided using optional input boards with a variety of input options. 14 auxiliary buses feed video and key signals to external devices such as DMEs, monitors and recording devices. When the DVS-V6464M or HDS-X3600 is connected, the number of inputs can be increased up to 60 and AUX bus can be increased up to 28.

Since live operation often requires changes to the input configuration of the system, primary inputs to the DVS-7350/7300 System can be very simply re-assigned to bus source buttons. Names can be assigned to input sources using the set-up menu and these are shown on the Source Name Display Units of the control panels. The displayed names are automatically changed when the primary inputs are re-assigned.

Switchable System —Component/Composite & 4:3/16:9

With a full range of options and its modular construction, the DVS-7350/7300 System can be configured into an appropriate customized system very cost effectively. Even the conversion between component and composite digital video operation is switchable. When configured to handle component signals, the DVS-7350/7300 System will operate on either the 525 or 625-line standard via simple menu selection. The composite configuration operates in NTSC and will accept both analog and digital sources. It is also possible to switch between a 4:3 and a 16:9 operation.

Simple and Quick Operation

One of the main goals in designing the DVS-7350/7300 System was to create a system with simple and quick operation. Each M/E is equipped with FlexiPad™ and Key Snapshot functions which allow quick learn/recall of snapshots and key settings. A large, easy to read EL display panel helps the operator to create a complex effect. A variety of sub and remote control panels is available for flexible live and production operation.

Convenient Remote Operation

Six convenient remote control panels are available as options. The BKDS-7060 Keyer Remote Control Panel provides secondary control

BKDS-2010

BKDS-7060

BKDS-7081

BKDS-7080

BKDS-8061

BKDS-8062

of functions for mix-effects keyers and down stream keyers. Any one of the three M/Es can be remotely controlled from the BKDS-2010 Sub Control Panel. Remote recall of snapshot and keyframe effects can be instantly achieved through the BKDS-8061 Memory Recall Remote Panel while the BKDS-7080, BKDS-7081 and BKDS-8062 offer an AUX bus remote control capability.

High Quality Chromakeyer

Up to three dual chromakey processors can be installed in the switcher. These chromakey options employ the new Sony FineChroma™ technology which allows full 4:4:4:4 video/key processing by using oversampling, resulting in superior chromakey effects.
The enhanced chromakey option provides various effective chromakey functions such as Shadow Control and Spot Color Modify.

VTR Control

By using the BKDS-7030 Keyframe Control Panel Unit, BKDS-7031 DME Control Panel Unit and BKDS-7001 Control Panel Expansion Board, it is possible to control up to two VTRs via the RS-422A 9-pin control. FF, Rew, Play and Cue-up are available.

Frame Memory

Two images can be store when the optional frame memory board is installed. And when the BKDS-7444 Frame Memory Expansion Board is installed, up to 36 frame memories can be stored. Twenty can be stored in DRAM, and 16 can be stored in flash memory. Those stored in the flash memory will not be erased even if the power is turned off.

Powerful Switcher Memory System

The DVS-7350/7300 System comes equipped with a sophisticated switcher memory system for effective live and production operations. The contents of the memory can be stored on a 3.5-inch floppy disk via the built-in floppy disk drive.
Up to 99 snapshot memories and four key snapshots for each M/E, with maximum of 99 keyframe registers for M/E, DSK and USER can be saved.

DME-linked Operation

The DVS-7350/7300 System provides linked operation between the DVS-7350/7300 System and a DME. With the addition of the BKDS-7031, the DVS-7350/7300 System then has full control of up to six Sony Digital Multi Effect systems through the switcher control panel.
The DME-LINK™ function enables DME-7000 keyframe effects to be run by the fader lever or transition button of the DVS-7350/7300 System, just like a wipe transition. Preset effects of a DME-3000 and DME-7000 can also be controlled from the switcher panel.
In Processed Key mode, processed video and key signals are fed to an external DME device and then re-entered onto the same keyer. This means that a chromakeyed picture can be processed through the DME (resized for example) and then sent back to the same keyer and composed with a background.

BVE-9100 Serial Control

Control of the switcher keyframe and DME keyframe are achieved from the Sony BVE-9100 editor. Precise Jog/Shuttle positioning of timelines are available using the editor jog dial. The status reporting interface with the BVE-9100 editor allows switcher and live key stroke data to be stored in the EDL.

Intelligent Tally and Router Control

Integrating the optional BKDS-7700 into the DVS-7350/7300 System provides a very sophisticated tally system and router interface, which are very important to live operation. The BKDS-7700 connects a DVS-7350/7300 System with a Sony DVS/BVS Series routing system to form an integrated matrix system. For example, a tally command from a downstream device (such as a line selector) is automatically sent upstream through the DVS-7350/7300 System and its pre-selector routing system to return the tally trigger to the appropriate device. Various attributes can also be added to the tally signal. Typically, this allows a tally signal to be sent to a device which is selected as the M/E 1 output of the switcher.
The BKDS-7700 also enables the DVS-7350/7300 System to remotely control Sony DVS-V and HDS-X3000 Series routing switchers. The names of sources input to a DVS-7350/7300 System via the router can be automatically shown on the display unit of the switcher control panel.

RGB Color Corrector and Video Processing for Primary Inputs

Full video processing functions for the primary input signals are supported with the DVS-7350/7300 System. Y/R-Y/B-Y based video control is available for video gain and black offset. Video control of luminance gain and hue is also provided in component switcher system.
RGB color correction* is also available. One option provides two channels, and can be applied to the signals selected on the frame memory 1 and frame memory 2 buses. This color corrector enables R/G/B and Y/U/V color space correction including primary color correction, 6-vector color correction and Luminance Processing (Lum Proc) Function.

* For component systems only. When the BKDS-7420 Color Correction Board is in use, the BKDS-7445 Frame Memory Adaptor Board cannot be installed.

DVS-7350 System (3 M/E PGM/PST Ty

• 14 AUX Buses

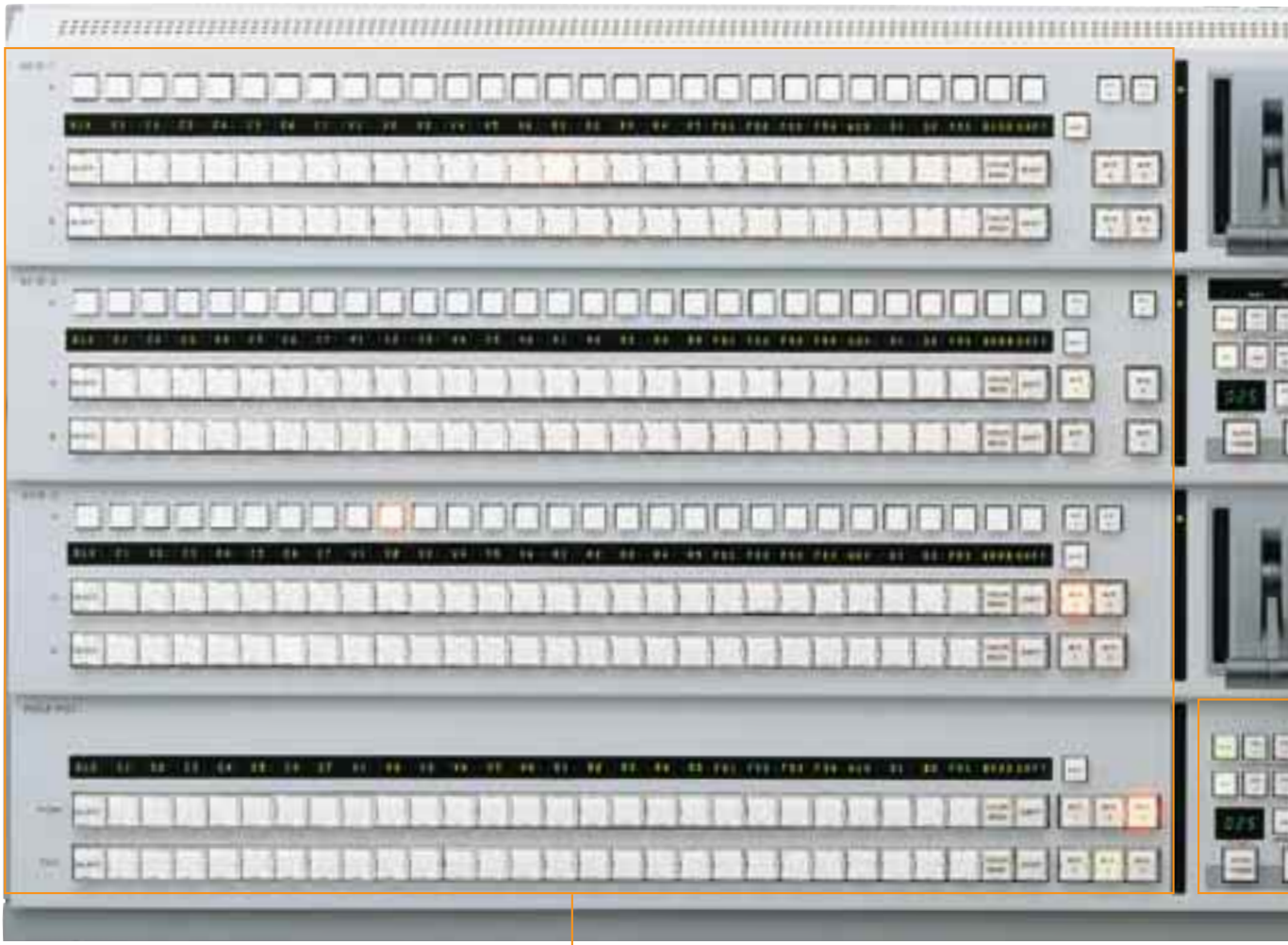

Photo shows the BKDS-7023 with Key Frame Control (BKDS-7030) and DME Control (BKDS-7031) installed.

• 3 M/E plus PGM/PST system
• Up to 36 SDI primary inputs
• Analog inputs for NTSC composite system
• Very simple re-assignment of primary inputs to source buttons
• Crosspoint assignment possible per M/E
• Source Name display capability
• Component/composite switchable
• Video processing for primary inputs
• M/E remote control using a sub-control panel
• Independent color background generator with a color mix capability for each M/E
• Two Frame Memories
• 16:9/4:3 switchable

Other Functions

• Sony DVS-V and HDS-X3000 Series Router interface
• RS-422A serial on-air tally
• Redundant power supply units for DVS-7350 System and DMK-7000
• BVE-9100 Editing System interface
• P2 time line
• Compact processor and low power consumption

ype) Panel View

- Large EL display panel
- Multi-Timeline display of switcher and DME keyframe effects

- FlexiPad
- 99 snapshot memories
- Nine wipe and DME pattern memories
- Simple recall of Snapshots, Wipe Snapshots, and DME-LINK Snapshots

- 3.5-inch floppy disk for Snapshot, Key Memory, Keyframe Memory, and Set-up data storage

- Two full-function keyers in each M/E
- Four key snapshots per keyer
- Border, Drop Border, Shadow, Drop Shadow, and Outline for key modify
- A high performance Dual Chroma Keyer in each M/E
- Superb chromakey picture by 4:4:4:4 processing
- Processed key function
- Keyer remote control using a remote panel

Optional Panels

- Key Frame control panel unit
  - 99 switcher keyframe effect memory capability
  - VTR control capability
- DME control panel unit
  - DME control capability
  - VTR control capability
- Memory recall control panel unit
  - Simple recall of snapshots and keyframe effects

- Simple store and recall of keyframe and snapshot for each M/E, PGM/PST, USER, and DME

- Super Mix™, NAM (Non-Additive Mix) and Normal Mix
- Enhanced wipe patterns such as Star, Matrix, and Diamond Dust
- Border color matte generator with Color Mix
- DME-LINK operation with DME-7000/3000 Digital Multi Effects

- Linked operation with the DMK-7000 Digital Multi Keyer
- Up to four DSKs
- Cascade, Dual Cascade, Parallel, and Independent modes
- Superb key quality and advanced edge modifier
- Independent wipe/mix key transition on each keyer
- Eight color matte generators with color mix capability
- Emergency input

DVS-7300 System (3 M/E Type) Panel Vie

- 14 AUX Buses

- FlexiPad
- 99 snapshot memories
- Nine wipe and DME pattern memories
- Simple recall of Snapshots, Wipe Snapshots, and DME-LINK Snapshots

- Large EL display panel
- Multi-Timeline display of switcher and DME keyframes effects

- 3.5-inch floppy disk for Snapshot, Key Memory, Keyframe Memory, and Set-up data storage

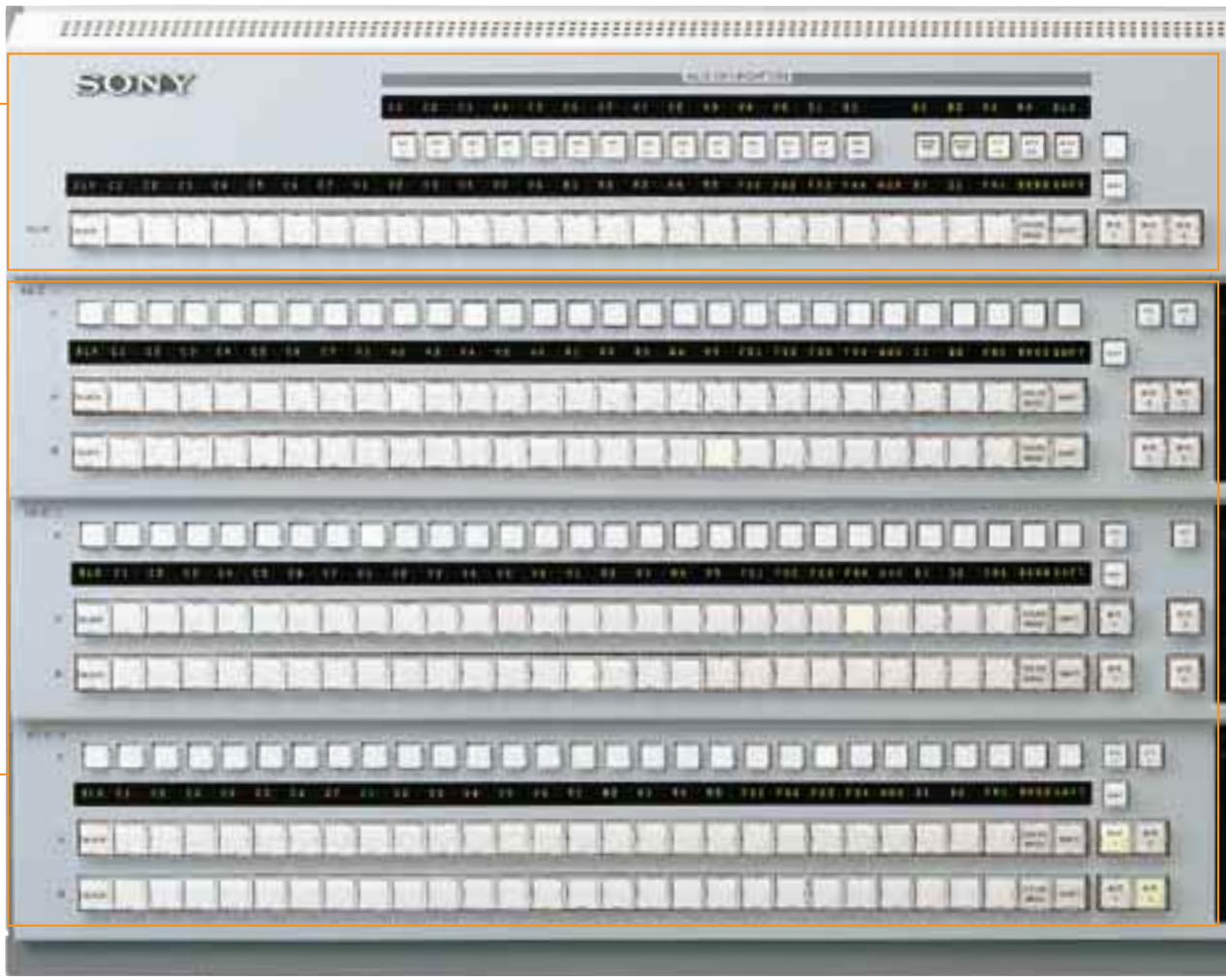

Photo shows the BKDS-7011 with Key Frame Control (BKDS-7030) and DME Control (BKDS-7031) installed.

Other Functions

- Sony DVS-V and HDS-X3000 Series Router interface
- RS-422A serial on-air tally
- Redundant power supply units for DVS-7300 System and DMK-7000
- BVE-9100 Editing System interface
- P2 time line
- Compact processor and low power consumption

- 3 M/E system
- Up to 36 SDI primary inputs
- Analog inputs for NTSC composite signals re-assignment
- Very simple re-assignment of primary inputs to source buttons
- Crosspoint assignment possible per M/E
- Source Name display capability
- Component/composite switchable
- Video processing for primary inputs
- M/E remote control using a sub-control panel
- Independent color background generator with a color mix capability for each M/E
- Two Frame Memories
- 16:9/4:3 switchable

- Two full-function keyers in each M/E
- Four key snapshots per keyer
- Border, Drop Border, Shadow, Drop Shadow, and Outline for key modify
- A high performance Dual Chroma Keyer in each M/E
- Superb chromakey picture by 4:4:4:4 processing
- Processed key function
- Keyer remote control using a remote panel

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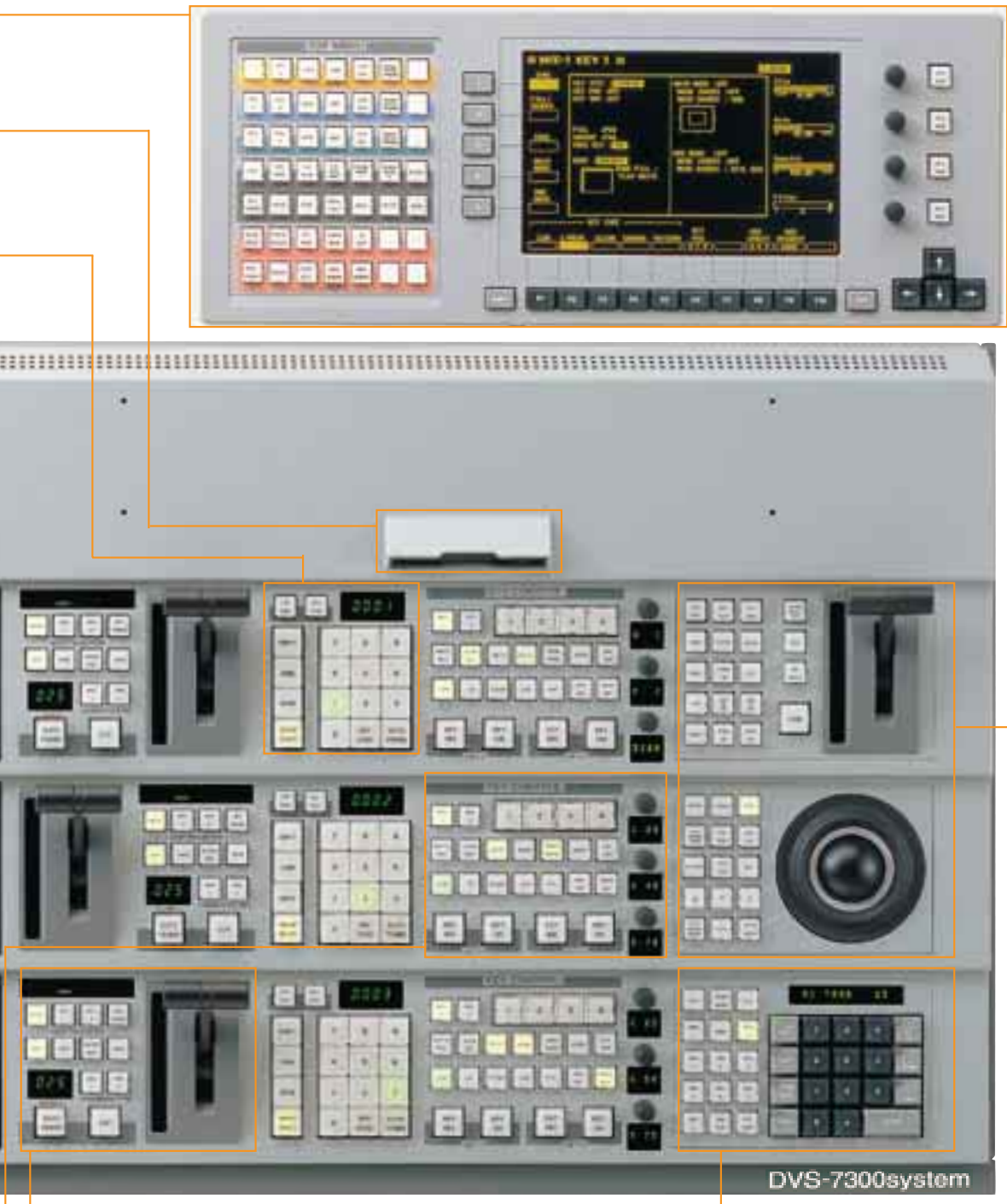


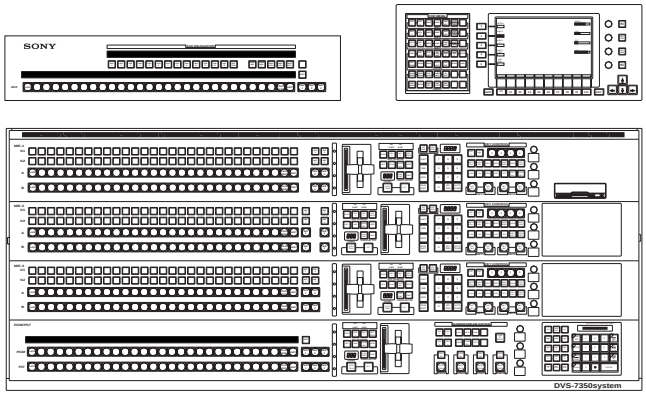
- Simple store and recall of keyframe and snapshot for each M/E, DSK, USER, and DME

- Super Mix, NAM (Non-Additive Mix), and Normal Mix
- Enhanced wipe patterns such as Star, Matrix, and Diamond Dust
- Border color matte generator with Color Mix
- DME-LINK operation with DME-7000/3000 Digital Multi Effects

Optional Panels

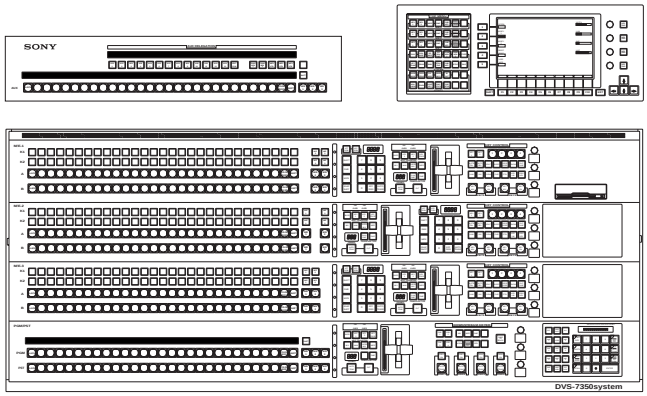
- Key Frame control panel unit
  - 99 switcher keyframe effect memory capability
  - VTR control capability
- DME control panel unit
  - DME control capability
  - VTR control capability
- DSK control panel unit
  - Linked operation with the DMK-7000 Digital Multi Keyer
  - Up to four DSKs
  - Cascade, Dual Cascade, Parallel, and Independent modes
  - Superb key quality and advanced edge modifier
  - Independent wipe/mix key transition on each keyer
  - Eight color matte generators with color mix capability
  - Emergency input
- Memory recall control panel unit
  - Simple recall of snapshots and keyframe effects

DVS-7350 System Main Control Panels



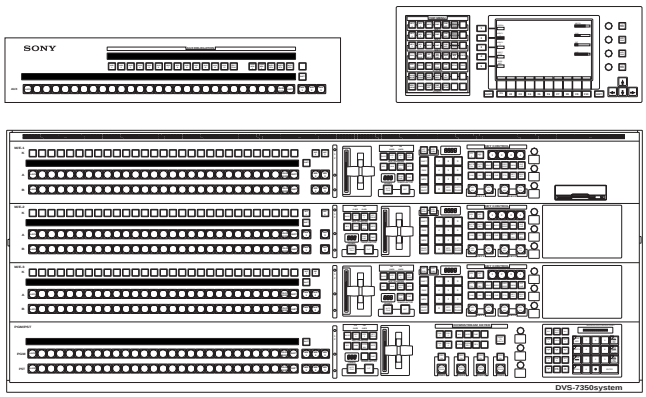
BKDS-7021 Panel

•3 M/E plus PGM/PST
•Double key rows on M/Es
•FlexiPad in-line type



BKDS-7022 Panel

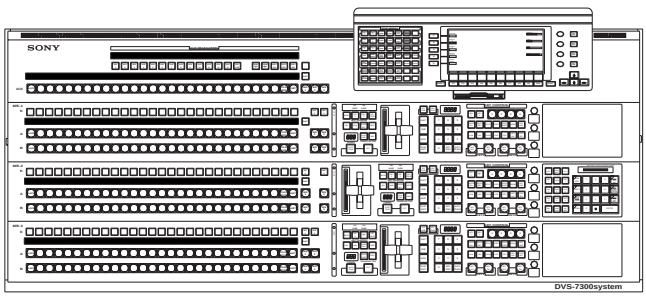
•3 M/E plus PGM/PST
•Double key rows on M/Es
•FlexiPad offset type



BKDS-7023 Panel

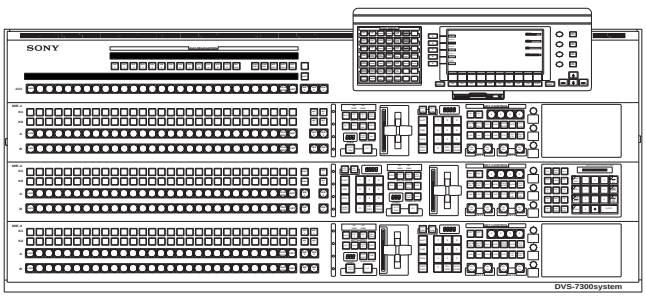
•3 M/E plus PGM/PST
•Source Name display on each M/E
•FlexiPad in-line type

DVS-7300 System Main Control Panels



BKDS-7011 Panel

•3 M/E
•Source Name display on each M/E
•FlexiPad in-line type



BKDS-7012 Panel

•3 M/E
•Double key rows on M/Es
•FlexiPad offset type

DMK-7000 Digital Multi Keyer

Also introduced with the DVS-7350/7300 System is a convenient digital multi-channel downstream keyer, the DMK-7000. This keyer provides the DVS-7350 System with a PGM/PST bank and up to four DSKs that are fully controllable from the DVS-7350 System Control Panel.

Stand-alone DSK Unit

The DMK-7000 is a newly designed, stand-alone digital multi-DSK unit which offers a major creative enhancement to overall system operation. It provides Sony DVS Series digital switchers with support for up to four additional down stream keyers.

Powerful Combination with DVS-7350/7300 System

When used with the DVS-7350/7300 System, all of the DMK-7000 functions can be efficiently controlled from the switcher control panel. Up to 10 keyed images can be layered simultaneously with this combination.

DVS-7350/7300 System & DMK-7000 Combination

Configuration	Type	Number of DSKs	Total Keyers	Appropriate Control Panel
DVS-7300 System	3 M/E	0	6	BKDS-7011/7012
DVS-7300 System + DMK-7000	3 M/E	1 to 4	7 to 10	BKDS-7011/7012
DVS-7350 System + DMK-7000	3 M/E + PGM/PST	1 to 4	7 to 10	BKDS-7021/7022/7023

Four Operation Modes

The DMK-7000 can operate in four modes – Cascade, Dual Cascade, Parallel and Independent. Cascade mode puts all layers one after another on the same background while Dual Cascade mode allows two layers on each of two different backgrounds. Parallel mode provides four separate outputs per DSK, each of which have their respective layers on the same background. In Independent mode, the DSKs can be used as four, completely independent keyers.

Frame Memory Option

Each of the four DSKs can be equipped with frame memory, supporting a wide range of storage and manipulation applications for video and associated key signals.

System Configurations

DVS-7350/7300 System

PROCESSOR

DVS-7000A	Digital Video Switcher
BKDS-7103	12 Input Serial Digital Board
BKDS-7110*[1]	Blank Input Adaptor Board
BKDS-7111*[1]	Analog Composite Input Board for NTSC composite signals
BKDS-7113*[1]	Serial Digital Input Board
BKDS-7133	Chromakey Analog Component Input Board
BKDS-7161	Analog Composite Output Board for NTSC composite signals
BKDS-7163	Serial Digital Output Board
BKDS-7370	Advanced Wipe Board
BKDS-7420	Color Correction Board
BKDS-2031	Chromakey Board
BKDS-2032	Chromakey Upgrade Board (requires BKDS-2031)
BKDS-7270	Key Border Board
BKDS-7271	FineKey/Key Boarder Board
BKDS-7280	ME PVW Board
BKDS-2070	Enhanced Wipe Generator Board
BKDS-2041	Frame Memory Board
BKDS-7444	Frame Memory Expasion Board
BKDS-7445	Frame Memory Adaptor Board
BKDS-7690	Redundant Power Supply Unit (for DVS-7000A)

CONTROL PANEL

BKDS-7011	Type-3D Switcher Control Panel
BKDS-7012	Type-3D Switcher Control Panel
BKDS-7021	Type-4D Switcher Control Panel
BKDS-7022	Type-4D Switcher Control Panel
BKDS-7023	Type-4D Switcher Control Panel
BKDS-7001	Control Port Expansion Board
BKDS-7030	Key Frame Control Panel Unit
BKDS-7031	DME Control Panel Unit
BKDS-7032	DSK Control Panel Unit (for BKDS-7011/7012)
BKDS-7033	Memory Recall Control Panel Unit
BKDS-7075	Control Panel Remote Adaptor
BKDS-7090	Redundant Power Supply Unit (for BKDS-7011/7012/7021/7022/7023)

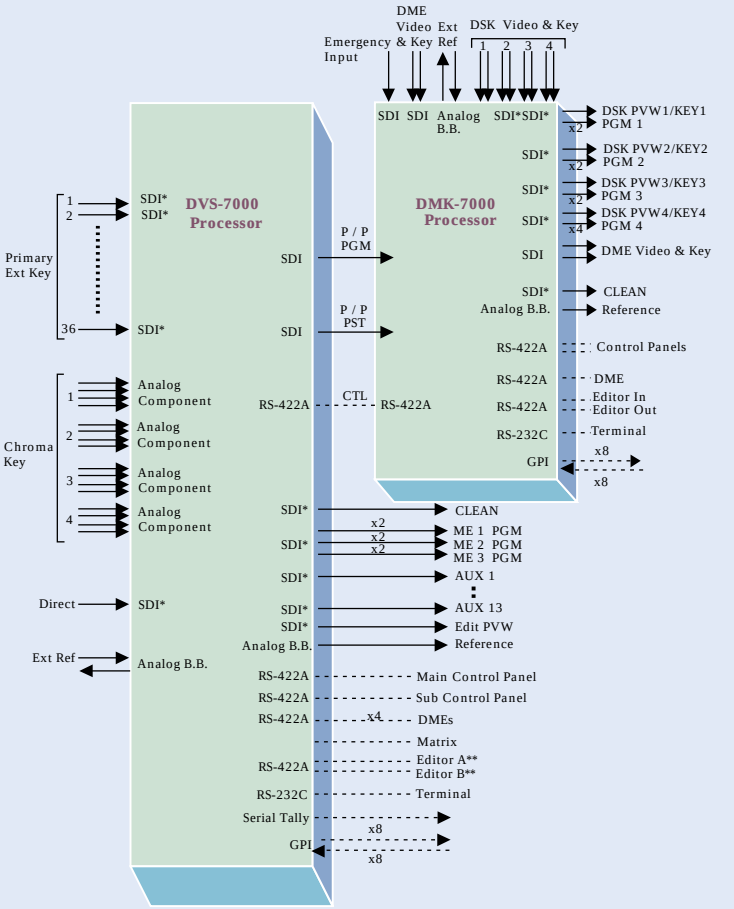
PERIPHERALS

BKDS-2010	Switcher Control Panel
BKDS-7060	Keyer Remote Control Panel
BKDS-7080	AUX Bus Remote Panel
BKDS-7081	AUX Bus Remote Panel
BKDS-7700	Tally Interface Unit (with router interface and advanced functions)
BKDS-8060	Remote Panel Interface Unit
BKDS-8061	Memory Recall Remote Panel (requires BKDS-8060)
BKDS-8062	AUX Bus Remote Panel (requires BKDS-8060)
BKDS-6080	Tally Interface Unit (basic functions)

SOFTWARE

BZS-7020A*[2]	Operation Software with Manual (English)
BZS-7021A*[3]	Operation Software with Manual (English)
BZS-7220	Operation Software with Manual (for BKDS-2010)
BZS-7360	Operation Software with Manual (for BKDS-7060)
BZS-7720	Operation Software with Manual (for BKDS-7700)
BZDM-3720	Operation Software with Manual (for DME-3000)
BZDM-7720	Operation Software with Manual (for DME-7000)

Input/Output Configurations
(DVS-7000A + DMK-7000 System)



* Analog composite input/output are also available as options for the Composite Switcher.
**These connectors also provide connection channels for a 5th and 6th DME unit.

DVS-7000A Rear Panel

DMK-7000 Rear Panel

DMK-7000

PROCESSOR

DMK-7000	Digital Multi Keyer Processor
BKDS-7300	Linear Keyer Board
BKDS-7111	Analog Composite Input Board for NTSC composite system
BKDS-7113	Serial Digital Input Board
BKDS-7161	Analog Composite Output Board for NTSC composite system
BKDS-7163	Serial Digital Output Board
BKDS-7180	DME Interface Board
BKDS-7320	Luminance Keyer/Border Board
BKDS-7430	Color Vector Keyer Board
BKDS-7443	Frame Memory Board
BKDS-7691	Redundant Power Supply Unit

CONTROL PANEL

BKDS-7060	Keyer Remote Control Panel

SOFTWARE

BZS-7320[*4]	Operation Software with Manual for Stand-alone DMK System (English)
BZS-7360[*4]	Operation Software with Manual for BKDS-7060 Keyer Remote Control Panel (English)

[*1] The BKDS-7111/7113 are daughter boards of the BKDS-7110. Customized input configuration is available with combinations of these boards.

[*2] BZS-7020A operation software must be installed to initiate DVS-7350/7300 System/DMK-7000 operation.

[*3] BZS-7021A operation software must be installed to initiate DVS-7350/7300 System/DMK-7000 operation and expand the number of primary inputs and AUX buses (when DVS-V6464M or HDS-X3600 is connected).

[*4] BZS-7320/7360 operation software must be installed to initiate DMK-7000 stand-alone operation.

Specifications

DVS-7350/7300 System Digital Video Switcher

	Component System	Composite System
Video Inputs		
Primary	serial component digital (option), 36 ch	serial composite digital (option) or analog composite (option), 36 ch
Chromakey	analog RGB/sync or Y/R-Y/B-Y/sync (option), 4 ch	analog RGB/sync or Y/R-Y/B-Y/sync (option), 4 ch
External ref.	analog black burst or sync, loop-through	analog black burst or sync, loop-through
Direct	serial component digital (option)	serial composite digital (option) or analog composite (option)
Video Outputs		
Program	serial component digital (option), 4 ch	serial composite digital (option) or analog composite (option), 4 ch
M/E program	serial component digital (option), 2 ch per M/E	serial composite digital (option) or analog composite (option), 2 ch per M/E
Preset	serial component digital (option)	serial composite digital (option) or analog composite (option)
Clean	serial component digital (option)	serial composite digital (option) or analog composite (option)
Auxiliary bus	serial component digital (option), 13 ch	serial composite digital (option) or analog composite (option), 13 ch
Edit preview	serial component digital (option)	serial composite digital (option) or analog composite (option)
Reference	analog black burst or sync	analog black burst or sync
System Interface		
Panel 1	D-sub 9-pin, RS-422A	
Serial tally	D-sub 9-pin, RS-422A	
DME	D-sub 9-pin, RS-422A, 4 ch	
DSK	D-sub 9-pin, RS-422A	
Matrix	D-sub 9-pin	
Editor A/Remote 1	D-sub 9-pin, RS-422A	
Editor B/Remote 2	D-sub 9-pin, RS-422A	
Panel 2/Remote 3	D-sub 9-pin, RS-422A	
Terminal	D-sub 9-pin, RS-232C	
GPI	D-sub 25-pin, TTL inputs 8 ch/relay contact outputs 4ch/open collector outputs 4 ch	
General		
Power requirements	AC 100 to 240 V ±10 %, 50/60 Hz	
Power consumption	DVS-7000 : 7 to 3.5 A BKDS-7011/7012/7021/7022/7023 : 1.0 A max.	
Dimensions	Processor: 424 (W) x 443 (H) x 450 (D) mm (16 3/4 x 17 1/2 x 17 3/4 inches) Control Panel: Main Panel 1290 (W) x 142 (H) x 532 (D) mm (50 7/8 x 5 5/8 x 21 inches) AUX Bus Panel* 680 (W) x 90 (H) x 132 (D) mm (26 7/8 x 3 5/8 x 5 1/4 inches) EL Display Panel 499 (W) x 197 (H) x 45 (D) mm (19 3/4 x 1 3/4 x 7 7/8 inches)	
Mass	Processor: 56 kg (123 lb 7 oz) BKDS-7011/7012: 36 kg (79 lb 5 oz) BKDS-7021/7022/7023: 40 kg (88 lb 2 oz)	
Supplied accessories		
	Rack mounting angles (pre-installed) (1 set) 75 Ω terminator (1) Operation manual (1) Installation manual (1) Maintenance manual, Part 1 (1)	

* Only for BKDS-7021/7022/7023 series panels

DMK-7000 Digital Multi Keyer

	Component System	Composite System
Video Inputs		
Program/Background 1	serial component digital (option)	serial composite digital (option) or analog composite (option)
Preset/Background 2	serial component digital (option)	serial composite digital (option) or analog composite (option)
Emergency/Background 3	serial component digital (option)	serial composite digital (option) or analog composite (option)
Background 4	serial component digital (option)	serial composite digital (option) or analog composite (option)
DME video	serial component digital (option)	serial composite digital (option) or analog composite (option)
DME key	serial component digital (option)	serial composite digital (option) or analog composite (option)
DSK video	serial component digital (option), 4 ch	serial composite digital (option) or analog composite (option), 4 ch
DSK key	serial component digital (option), 4 ch	serial composite digital (option) or analog composite (option), 4 ch
Reference	analog black burst or sync, loop-through	analog black burst or sync, loop-through
Video Outputs		
Program	serial component digital (option), 2 ch for DSK1 to 3, 4ch for DSK 4	serial composite digital (option) or analog composite (option), 2 ch for DSK1 to 3, 4ch for DSK 4
DSK preview/key	serial component digital (option), 4 ch	serial composite digital (option) or analog composite (option), 4 ch
DME video	serial component digital (option)	serial composite digital (option) or analog composite (option)
DME key	serial component digital (option)	serial composite digital (option) or analog composite (option)
Clean	serial component digital (option)	serial composite digital (option) or analog composite (option)
Reference	analog black burst or sync	analog black burst or sync
System Interface		
Panel A	D-sub 9-pin, RS-422A	
Panel B	D-sub 9-pin, RS-422A	
DME	D-sub 9-pin, RS-422A	
Editor in	D-sub 9-pin, RS-422A	
Editor out	D-sub 9-pin, RS-422A	
Switcher	D-sub 9-pin, RS-422A	
Terminal	D-sub 9-pin, RS-232C	
Tally/GPI	D-sub 25-pin, TTL inputs 8 ch/relay contact outputs 4ch/open collector outputs 4 ch	
General		
Power requirements	AC 100 to 240 V ±10 %, 50/60 Hz	
Power consumption	3.5 to 2.0 A max.	
Dimensions	424 (W) x 221 (H) x 475 (D) mm (16 3/4 x 8 3/4 x 18 3/4 inches)	
Mass	32 kg (70 lb 9 oz)	
Supplied accessories		
	Rack mounting angles (pre-installed) (1 set) 75Ω terminator (1) Operation manual (1) Installation manual (1) Maintenance manual, Part 1 (1)	

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