SONY®

Production Switchers
DVS-9000 Series

Introducing the Sony DVS-9000 Series - a new line of SD production switcher systems built on the advanced technology and cutting-edge architecture of the MVS-8000 Series Multi-format production switcher.
Compared to conventional SD switchers, the DVS-9000 Series offers greater system flexibility, a range of enhanced functions and a more compact design.
The system-control structure and setup/effect data of the DVS-9000 Series switchers are compatible with the MVS-8000 Series switchers. This enables you to configure a mixed DVS-9000 Series and MVS-8000 Series setup, and also provides a smooth migration path from SD to HD operations, with minimal cost and system reconfiguration.
With the Sony DVS-9000 Series, broadcasters and post-production facilities around the world will secure the optimal combination of quality and investment.

DVS-9000SF

MKS-9012

Features

Digital component 525/625 switchable

Two compact frames available

- DVS-9000 switcher processor
  - 8RU frame provides up to 80 primary inputs, 48 outputs and 8 monitor outputs
  - 2-, 3- and 4-M/E configurations are available
- DVS-9000SF switcher processor
  - 4RU frame provides up to 34 primary inputs and 24 outputs
  - 1- and 2-M/E configurations are available
- Creative M/E functionality
  - Four full-function keyers per M/E
  - Multiple M/E program output configuration
- Independent M/E functionality
  - 4:3/16:9 modes, crosspoint assignments and BUS toggle on/off
  - Snapshots, keyframe and various setups
- RGB color-corrector option (supported in the future)
- Redundant power supply can be installed
- Low power consumption
  - Switcher processor and built-in DME consume less than 750 W

Sophisticated, high-quality DME (BKDS-9470 DME Board Set) built in

- 4 DME channels
- Video, Key and SDI External Video input per channel
  - External Video inputs to be use as a background or border/trail source
- 4 independent SDI monitor outputs for video with graphic, video without graphic or key
- High quality
  - Y/C 10-bit processing
  - High-performance pixel-based anti-alias filter
  - 8 x 8 multi-point interpolation
  - Frame base processing
- Enhanced effects patterns such as 2D, 3D and Non-linear effects
  - Digital SKETCH™, Digital SPARKLE™, Color Corrector
  - Up to 4 channels Intersect Combine
- Powerful lighting effects
  - Easy to set color, shape and texture for multiple light sources
  - Realistic lighting effects can be added to non-linear and 3D-effect patterns

Provides two 100base-TX network interfaces

- MVS-8000 Series and DVS-9000 Series control via a LAN
  - Multi-panel and multi-processor operation
- Remote maintenance
- Set up data, effect data and image file transfer

Compatible panels and peripherals with MVS-8000 Series switchers

- CCP-8000 Series Center Control Panels
- CCP-9000 Series Control Panels
  - Compact 19-inch rack width with 12 crosspoint buttons
  - 1- or 2-M/E configuration
  - Redundant power supply
- MKS-8700 Device Control Unit
  - Programmable multi-level tally and GPI input/output
  - VTR, DDR, P-Bus and Audio Mixer controls
- MKS-8080/8082 Auxiliary Bus Remote Panel
- UCP-8060 Universal Control Panel (supported in the future as Keyer Remote Panel)

Preliminary

Specifications

■ General

Power requirement	
	100 V to 240 V AC ±10% 50/60 Hz

Power consumption	
DVS-9000	8.6 to 4.2 A
DVS-9000SF	5.5 to 2.5 A
CCP-8000 Series	3.3 to 1.4 A
CCP-9000 Series	1.1 to 0.5 A
Device control unit	1.4 to 0.8 A

Operating temperature	
	5 °C to 40 °C (41 °F to 104 °F)

Storage temperature	
	-20°C to 60 °C (-4 °F to 140 °F)

Operating humidity	
	10% to 90% RH

Dimensions (W x H x D)	
DVS-9000	482 x 354 x 520 mm (19 x 14 x 20 $1/2$ inches)
DVS-9000SF	482 x 177 x 520 mm (19 x 7 x 20 $1/2$ inches)
CCP-8000 Series	
Main panel	
4M/E, 32 crosspoint buttons	1443 (with mount bracket) x 98.5 x 528 mm (56 $7/8$ x 4 x 20 $7/8$ inches)
3M/E, 24 crosspoint buttons	1291 (with mount bracket) x 98.5 x 528 mm (50 $7/8$ x 4 x 20 $7/8$ inches)
2M/E, 16 crosspoint buttons	1139 (with mount bracket) x 98.5 x 396 mm (44 $7/8$ x 4 x 15 $5/8$ inches)
Auxiliary Bus Panel	
32 crosspoint buttons	782 (with mount bracket) x 132 x 80 mm (30 $7/8$ x 5 $1/4$ x 3 $1/4$ inches)
24 crosspoint buttons	630 (with mount bracket) x 132 x 80 mm (24 $7/8$ x 5 $1/4$ x 3 $1/4$ inches)
16 crosspoint buttons	478 (with mount bracket) x 132 x 80 mm (18 $7/8$ x 5 $1/4$ x 3 $1/4$ inches)
Menu panel	424 x 220 x 46 mm (16 $3/4$ x 8 $3/4$ x 1 $13/16$ inches)
System control unit	482 x 132 x 520 mm (19 x 5 $1/4$ x 20 $1/2$ inches)
CCP-9000 Series	
Main panel	
2M/E, 12 crosspoint buttons	
1M/E, 12 crosspoint buttons	478 (with mount bracket) x 208 x 442 mm (18 $7/8$ x 8 $1/4$ x 17 $1/2$ inches)
Menu panel	424 x 220 x 46 mm (16 $3/4$ x 8 $3/4$ x 1 $13/16$ inches)
Device control unit	482 x 132 x 520 mm (19 x 5 $1/4$ x 20 $1/2$ inches)

Mass	
DVS-9000	Approx. 43 kg (94 lb 13 oz)
DVS-9000SF	Approx. 25 kg (55 lb 8 oz)
CCP-8000 Series	
Main panel (4M/E, 32 crosspoint buttons)	30 kg (66 lb 2 oz)
Auxiliary Bus Panel (32 crosspoint buttons)	3.7 kg (8 lb 2 oz)
Menu panel	2.2 kg (4 lb 13 oz)
System control unit	12 kg (26 lb 7 oz)
Device control unit	18 kg (39 lb 10 oz) (Fully loaded)
CCP-9000 Series	
Main panel	
2M/E, 12 crosspoint buttons	12.5 kg (27 lb 9 oz)
1M/E, 12 crosspoint buttons	11.5 kg (25 lb 6 oz)
Menu panel	2.2 kg (4 lb 13 oz)

■ Video inputs

Primary inputs (Switcher processor)	
BNC type connector x 1 each	DVS-9000: Max.80 DVS-9000SF: Max.34
Serial digital video signal, SMPTE259M-C, 0.8 Vp-p ±10%, 270 Mb/s, 75 Ω	
Input return loss	15 dB
Cable length	200 m (with Belden8281, 5C-2V or equivalent coaxial cable)

External inputs (Built-in DME)		
BNC type connector x 1 each,		Max. 4
Serial digital video signal, SMPTE259M-C, 0.8 Vp-p ±10%, 270 Mb/s, 75 Ω		
Input return loss	15 dB	
Cable length	200 m (with Belden8281, 5C-2V or equivalent coaxial cable)	

Reference inputs	
BNC type x 2, loop-through, analog black burst or sync	

■ Video outputs

OUT 1 to 48 (DVS-9000), OUT 1 to 24 (DVS-9000SF)	
OUT 1 to 4, 13 to 16, 25 to 28, 37 to 40	BNC type connectors x 2 each
OUT 5 to 12, 17 to 24, 29 to 36, 41 to 48	BNC type connector x 1 each
Serial digital video signal, SMPTE259M-C, 0.8 Vp-p ±10%, 270 Mb/s, 75 Ω	

OUT 49 to 56 (DVS-9000 monitor out)	
BNC type connectors x 2 each	
Serial digital video signal, SMPTE259M-C, 0.8 Vp-p ±10%, 270 Mb/s, 75 Ω	

MONITOR OUT 1 to 4 (Built-in DME MONITOR OUTPUT)	
BNC type connector x 1 each	
Serial digital video signal, SMPTE259M-C, 0.8 Vp-p ±10%, 270 Mb/s, 75 Ω	

Reference output	
BNC type x 1, analog sync signal	

■ Control

Switcher processor	
Control LAN	RJ-45, 100Base-TX
Data LAN	RJ-45, 100Base-TX
REMOTE 1 to 4	D-SUB 9-pin, RS-422A
TERMINAL	D-SUB 9-pin, RS-232C
GPI	D-SUB 25-pin, female relay contact outputs x 4, open collector outputs x 4
EXTENSION	BNC type connector x 1

Built-in DME	
Control LAN	RJ-45, 100Base-TX
Data LAN	RJ-45, 100Base-TX
REMOTE	D-SUB 9-pin, RS-422A
GPI	D-SUB 25-pin, female relay contact outputs x 4, open collector outputs x 4

CCP-8000 Series (System control unit)	
Control LAN	RJ-45, 100Base-TX
Data LAN	RJ-45, 100Base-TX
Peripheral LAN	RJ-45, 100Base-TX
GPI	D-sub 25-pin, TTL level inputs x 8, relay contact outputs x 4, open collector outputs x 4
REMOTE	BNC type connector x 1, S-BUS
LTC	D-sub 9-pin
Device	USB type A

CCP-9000 Series	
Control LAN	RJ-45, 100Base-TX
Data LAN	RJ-45, 100Base-TX
Peripheral LAN	RJ-45, 100Base-TX
GPI	D-sub 25-pin, TTL level inputs x 8, relay contact outputs x 4, open collector outputs x 4
REMOTE	BNC type connector x 1, S-BUS
Device	USB type A

Device Control Unit	
Peripheral LAN	RJ-45, 100Base-TX
Serial tally 1	D-sub 9-pin, RS-422A
Serial tally 2	D-sub 9-pin, RS-422A
TALLY/GPI *	D-sub 37-pin, relay contact outputs 18-ch up to 15 ports in steps of 3 ports in a frame
REMOTE *	D-sub 9-pin, RS-422A, various protocols, up to 30 ports in steps of 6 ports in a frame

*TALLY/GPI and REMOTE ports are alternatively installed.
 Mixed configuration of TALLY/GPI and REMOTE ports are possible.

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