

SONY®

Production Switcher

DFS-800



Powerful DME Switcher with a Broad Range of Functionalities and Spectacular 3D Effects

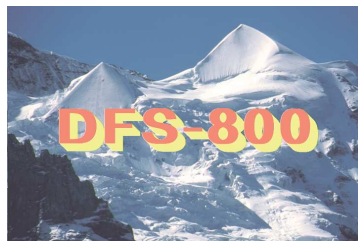
Sony introduces a new generation of DME switcher in response to the ever-important needs of SD-based live production systems. The Sony DFS-800 is a powerful DME switcher that – despite its small footprint and affordable price – provides a wide variety of switcher functionalities, exceptional system versatility, and extreme creative performance.

It is equipped with eight SD-SDI inputs and eight SD-SDI outputs as standard, however, as user requirements grow, these can be expanded to 16 by adding optional expansion boards. Other distinctive features include six keyers and a six-channel 3D DME that comes as standard.

With a wide array of stunning system functionalities and high-quality special effects, the DFS-800 will serve as a powerful, creative, yet cost-effective tool at live events and for small-scale production studios and editing suites.



* display not included



FEATURES

Powerful Mix/Effect Functionality

The DFS-800 supports a maximum of 16 inputs^{*1}, six keyers (four keyers and two DSKs), a wide range of switcher effects, and six-channel 3D DME effects. With these powerful functionalities, the DFS-800 is a perfect fit for a wide variety of production needs, even in the most demanding situations and environments.

^{*1} Eight standard inputs and eight optional inputs.

Flexible Input/Output Configurations

The DFS-800 switcher is equipped with eight SD-SDI inputs and eight SD-SDI outputs as standard. For more versatility, the number of inputs can be increased up to 16 by adding the optional BKDF-810 or BKDF-811 board (see page 4 for details.) Any of these inputs can be freely assigned to any cross points. What's more, frame synchronizers are provided for each input too.

As standard, the DFS-800 provides one PGM output (2 ports), one PVW output, one Clean output, and four AUX outputs. With the addition of the output options, another eight outputs are available.

Wide Range of Creative Effects Including 3D

Transition effects such as cut, mix, wipe, and DME wipe transition, as well as keys such as chroma-key, are all provided in the DFS-800 as standard. More than 100 wipe patterns are available, including a wide range of adjustable parameters for these effects such as position, size, rotation, borders, and transparency. Furthermore, it features stunning-quality six-channel 3D effects such as page turn, ripple, and swirl, which can be enhanced by adding lighting effects.

What's more, GUI-based controls for DME menus are available,^{*2} which greatly enhances operational convenience.

^{*2} For GUI-based operation, the DFS-800 control panel must be connected to an SVGA computer display.

Powerful Frame Memory Function

The DFS-800 allows sources from all inputs to be captured as a still image, and can store up to 100 of them on its internal memory. These images can be handled as two independent primary inputs.

Optional "Pre-combiner" Function

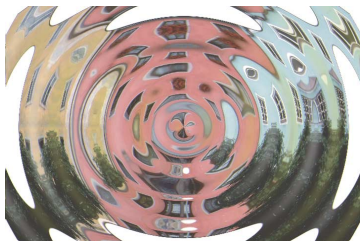
The optional BKDF-840 board provides a powerful pre-combiner function to make complex composition available on the small switcher. With the pre-combiner function, all sixteen inputs can be combined in a single image, which can be used as a re-entry input.

Compact and Intuitive Control Panel

The control panel of the DFS-800 switcher is highly compact and easy to use. It is equipped with basic PGM/PST rows, a fader lever, a joystick, and a parameter display, which provide users with straightforward and streamlined operations for maximum efficiency.

Other Features

- Four color background generators
- Eight GPI inputs and 24 parallel tally outputs
- Serial port for control from editors
- Adjustable levels of process amplifier and white clip
- USB port on the control panel for connecting USB flash memory drive and mouse
- Storage of up to 100 patterns of sequences containing 31 settable key frames
- 96-event memory can be easily recalled using direct buttons
- Main unit offers a compact 2-RU size

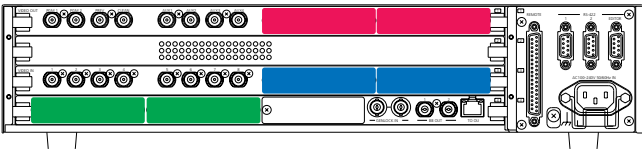


SPECIFICATIONS

DFS800	
General	
Power Requirement	AC 100 V to 240 V ±10%, 50/60 Hz
Power Consumption	Switcher Processor: 100 W (max. 160 W) Control Panel: 50 W
Operating Temperature	5 to 40° C (41 to 104° F)
Operating Humidity	30 to 90 % (no condensation)
Dimensions (W x H x D)	Switcher Processor: 430 x 88 x 425 mm (17 x 3 1/2 x 16 3/4 inches), Control Panel: 430 x 155.8 x 221 mm (17 x 6 1/4 x 8 3/4 inches)
Mass	Switcher Processor: Approx. 15 kg (33 lb 1 oz) Control Panel: Approx. 5 kg (11 lb)
Television Standard	525 / 60 (NTSC), 625 / 50 (PAL) (Selectable at menu)
Signal Processing	4:2:2 digital component, 10-bit
Input Signals	
Video Inputs	8 standard inputs, optionally expandable 16 inputs Digital component: 270 Mbps, 75 Ω, BNC
Video Inputs (option)	See the board configuration Digital component: 270 Mbps, 75 Ω, BNC Analog component: Y: 1.0 Vp-p, B-Y/R-Y: 0.7 Vp-p, BNC Analog composite: 1.0 Vp-p, 75 Ω, BNC
Reference Input	Analog black burst: 0.429 Vp-p (NTSC) / 0.45 Vp-p (PAL), 75 Ω or Loopthrough, BNC
Output Signals	
Video Output	8 standard output (PGM x 2, PREV, Clean, AUX x 4), optional expandable 16 outputs Digital component: 270 Mbps, 75 Ω, BNC

Video Output (option)	See the board configuration Digital component: 270 Mbps, 75 Ω, BNC Analog component: Y: 1.0 Vp-p, B-Y / R-Y: 0.7 Vp-p, BNC Analog composite: 1.0 Vp-p, 75 Ω, BNC RGB+SYNC: R/G/B: 0.7 Vp-p, 75 Ω, BNC
Reference Output	Analog black burst: 0.429 Vp-p (NTSC) / 0.45 Vp-p (PAL), 75 Ω or Loopthrough, BNC
Quantization	Y: 10-bit, C: 10-bit, Key: 10-bit
I/O Delay	1H (When FS, edge/shadow and DME not applied to output) Max. 4 frames
Control Signals	
Switcher Processor	Control Panel: Ethernet 10 / 100BASE-T, RJ-45 x 1 Editor: D-sub 9 pin (female) x 1 GPI IN/TALLY: 37-pin D-sub (female) x 1 (8 inputs / 24 outputs)
Control Panel	Switcher: Ethernet, 10/100BASE-TX, RJ-45 x 1 VGA: D-sub 15-pin (female) x 1 USB: USB1.1 or 2.0, "A" type (female) x 1
Supplied Accessories	
Switcher Processor	Control Panel connection cable, Rack mount brackets
Control Panel	Operation manual
Optional Accessories	
BKDF-810	4 Digital Video Input Board
BKDF-811	2 Analog Video Input Board
BKDF-840	16 Input DME Board (Pre-combiner)
BKDF-860	4 Digital Video Output Board
BKDF-861	2 Analog Video Output Board

REAR PANEL



- : Accepts up to two BKDF-810 or BKDF-811 boards in any combination.
- : Accepts up to two BKDF-811 boards.
- : Accepts up to two BKDF-860 or BKDF-861 boards in any combination.

* Total number of inputs (including standard eight SDI inputs) is 16.

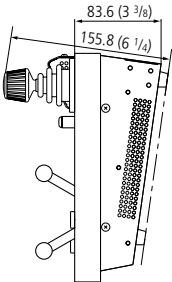
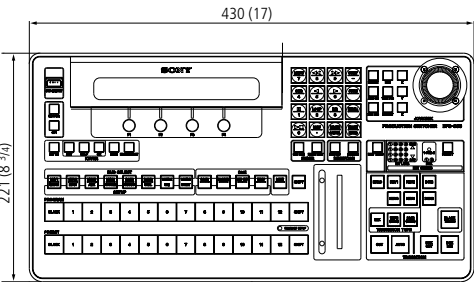
Input Expansion Boards

BKDF-810: One BKDF-810 board provides four SD-SDI inputs.
BKDF-811: One BKDF-811 board provides two analog inputs (either composite x2, or composite x1 and component x1.)

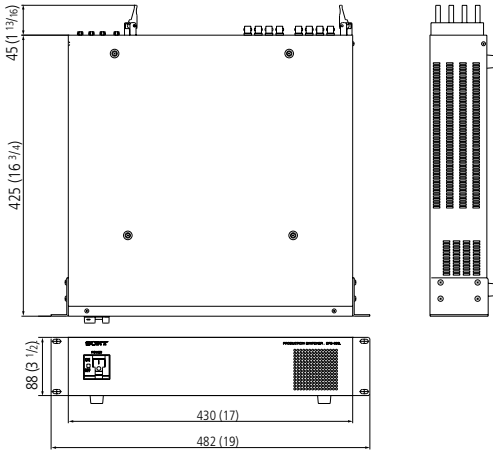
Output Expansion Boards

BKDF-860: One BKDF-860 board provides four SD-SDI outputs.
BKDF-861: One BKDF-861 board provides two analog outputs (either composite x2, or composite x1 and component x1.)

DIMENSIONS



Unit: mm (inches)



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