SONY

Highly-Regarded XVS Series Switchers, Each in an Affordable Pack

3G-capable, 4K-ready

XVS-1M/E Pack
Production Switcher System

XVS-2M/E Pack
Production Switcher System

Package Configuration

XVS-1M/E Pack

ICP-X7000 Compact Panel
1M/E 20XPT Panel with Menu Panel MKS-X7011

PWS-110SC1
Switcher Control Station

MKS-X2700
System Interface Unit

XVS-6000
Multi Format Switcher Processor

- 1M/E 20XPT Compact Panel
- 8 Keyers per M/E
- 32 Inputs, each has Format Converter and Frame Synchronizer
- 24 Outputs
- 20ch Frame Memory
- 2ch Multi Viewer
- Tally, GPIO, Device Control

XVS-2M/E Pack

ICP-X7000 Compact Panel
2M/E 20XPT Panel with Menu Panel MKS-X7011

PWS-110SC1
Switcher Control Station

MKS-X2700
System Interface Unit

XVS-6000
Multi Format Switcher Processor

- 2M/E 20XPT Compact Panel
- 4 Keyers per M/E
- 32 Inputs, each has Format Converter and Frame Synchronizer
- 24 Outputs
- 20ch Frame Memory
- 2ch Multi Viewer
- Tally, GPIO, Device Control

Key Features

The Essence of a High-End XVS Series Switcher in a Pack

The XVS-1M/E Pack and XVS-2M/E Pack (XVS Packs) are brimming with Sony's powerful feature set, long-established and ever-evolving in its MVS and XVS Series switchers. These convenient-to-purchase packs can also be used to produce 1080p (3G).

20-Channel Frame Memory and Clip Transition

These XVS Packs support 20 channels of frame memory. Using this memory feature, you can create clip transition effects – transitioning a CG image (such as a logo) and movies across the picture from one side to the other with audio, while a background transition is performed in the background

Powerful Key Resizer (2.5D DME)

A powerful resizer function is provided for every keyer. 8 x 2.5D DME effects can be utilized in the system, which is very useful for optimizing on-screen composition. For example, you can create multiple picture boxes within a single screen.

Input Format Converter and Frame Synchronizer

Format converter (FC) and frame synchronizer (FS) functions are provided for every input as standard. You can input various types of signal to the system, including different video formats or even non-locked signals. The following incoming signal formats are supported in FC: 480i, 576i, 720p, 1080i, and 1080p Level-B.

2-Channel Multi-Viewer

Each XVS Pack has two standard multi-viewer channels, enabling up to a 32-screen monitoring environment without any additional external multi-viewer systems.

Future Proofing Production Switcher (Option)

These XVS Packs also support 4K (UHD) with optional software and a video-over-IP interface with optional hardware.

Panel Modules and Useful Functions

Source Name and Color Indicator (LED)
- Source Name, Bus Name, or attached Macro Name can be displayed
- Source color can be changed by RGB parameters

Utility and ShotBox
- 24-color LCD buttons with 17 assignable buttons
- Utility/ShotBox recall, Keyframe/Macro editing, and Transition rate change

Status Display for Transition
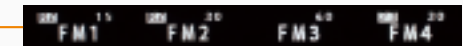- Transition-related information is displayed on the panel

M/E Name

Keyer Name
Key On/Off status
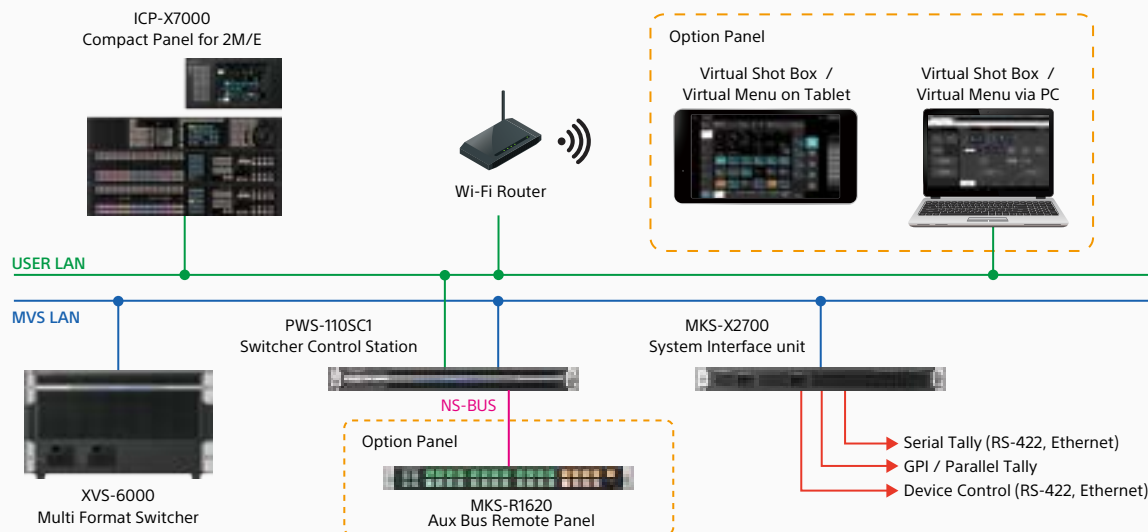Key Priority
Main/Sub assignment

XPT Pad
- XPT Pad brings easy access to panel setup changes and macro functions
- Assignable functions such as:
  - Source Name Display mode
  - Key Bus assignment
  - Macro Recall
  - Bus Protect, and more

Keyer Control

Key Source Name
Resizer On/Off status
Transition Time
Transition Type

System Diagram

System Configuration Example for XVS-2M/E Pack

ICP-X7000
Compact Panel for 2M/E

Option Panel

Virtual Shot Box /
Virtual Menu on Tablet

Virtual Shot Box /
Virtual Menu via PC

Wi-Fi Router

USER LAN

MVS LAN

PWS-110SC1
Switcher Control Station

MKS-X2700
System Interface unit

NS-BUS

Option Panel

MKS-R1620
Aux Bus Remote Panel

XVS-6000
Multi Format Switcher

Serial Tally (RS-422, Ethernet)
GPI / Parallel Tally
Device Control (RS-422, Ethernet)

Aux Bus Remote Panel Option

32 Button Remote Control Panel
MKS-R3210

16 Button Remote Control Panel
MKS-R1620

Other Typical Options

Product Name	Model Code	Max. # of Board Installable
Format Converter Board (for Output FC)	XKS-8460	1*
HD DME Board	XKS-8470	1
4K Upgrade Software	XZS-6510	1
Virtual Shot Box Base Software	BZPS-7020	1
Virtual Menu Base Software	BZPS-7030	1

* An additional XKS-S8165 SDI Output Connector Board is required.

Specifications

XVS-1M/E Pack, XVS-2M/E Pack

General

Power requirement	XVS-6000	100 V to 240 V ± 10 % AC 50/60 Hz
	ICP-X7000 Compact Panel / MKS-X7011 Menu Panel	42.5 V to 57 V (PoE+), 12V DC
	PWS-110SC1 / MKS-X2700	AC 100 V to 240 V, ±10% 50/60 Hz
Power consumption	XVS-6000	11 A to 4.6 A (when equipped with all installable option boards)
	ICP-X7000 Compact Panel	0.6 A (PoE+), 2.1 A DC
	MKS-X7011 Menu Panel	0.5 A (PoE+), 1.6 A DC
	PWS-110SC1	4 A to 1.5 A
	MKS-X2700	0.5 A to 0.3 A
Operating temperature	XVS-6000	5 °C to 40 °C (41 °F to 104 °F)
	ICP-X7000 Compact Panel / MKS-X7011 Menu Panel	5˚C to 40˚C (41˚F to 104˚F)
	PWS-110SC1	5˚C to 35˚C (41˚F to 95˚F)
	MKS-X2700	5˚C to 40˚C (41˚F to 104˚F)
Storage temperature	XVS-6000	-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity	XVS-6000	10 % to 90 %
Dimensions*1 (W x H x D)	XVS-6000	440 x 265.9 x 585 mm (17 3/8 × 10 1/2 × 23 inches)
	ICP-X7000 Compact Panel	2 M/E, 20-crosspoint buttons (compact type, 3 rows): 847 (with mount bracket) x 123 x 442 mm (33 3/8 x 4 7/8 x 17 1/2 inches)
		1 M/E, 20-crosspoint buttons (compact type, 2 rows): 847 (with mount bracket) x 116 x 295 mm (33 3/8 x 4 5/8 x 11 5/8 inches)
	MKS-X7011 Menu Panel	424 x 221 x 46 mm (16 3/4 x 8 3/4 x 1 13/16 inches)
	PWS-110SC1	482 x 44 x 634 mm (19 x 1 3/4 x 25 inches)
	MKS-X2700	482 x 44 x 520 mm (19 x 1 3/4 x 20 1/2 inches)
Mass	XVS-6000	Approx. 43 kg (94 lb 13 oz) (when equipped with all installable option boards)
	ICP-X7000 Compact Panel	2 M/E, 20-crosspoint buttons (compact type, 3 rows): Approx. 15 kg (33 lb 1 oz)
		1 M/E, 20-crosspoint buttons (compact type, 2 rows): Approx. 10 kg (22 lb 1 oz)
	MKS-X7011 Menu Panel	2.5 kg (5 lb 18.2 oz)
	PWS-110SC1	14 kg (30 lb 14 oz)

Reference
XVS-6000

Reference input	BNC (x2), 75 Ω with loop-through output HD tri-level sync or Analog black burst

Video Inputs/Outputs
XVS-6000

Inputs (Max) (BNC)	64 for primary inputs
Outputs (Max) (BNC)	24 for outputs, 16 for Format Converter, 8 for Multi Viewer (2 channels of Multi Viewer)
Signal format	SMPTE 424M, SMPTE 292M
Signal processing	4 : 2 : 2 digital component
Quantization	HD-SDI : 10-bit

Supported Formats

	HD	4K (Option)
XVS-6000	1080/59.94P*3, 1080/50P*3, 1080/29.97PsF, 1080/25PsF, 1080/24PsF, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94P, 720/50P	3840x2160/59.94P*1, 3840x2160/50P*1, 3840x2160/29.97PsF*2, 3840x2160/25PsF*2, 3840x2160/24PsF*2, 3840x2160/23.98PsF*2

Control
XVS-6000

NETWORK A	RJ-45 (x1), 1000BASE-T
NETWORK B	RJ-45 (x1), 1000BASE-T

ICP-X7000 Compact Panel

LAN	RJ-45 (x1), 1000BASE-T(PoE+)

MKS-X7011 Menu Panel

LAN	RJ-45 (x1), 1000BASE-T(PoE+)
Device	USB-type A (x1), USB 2.0

PWS-110SC1 (Switcher Control Station)

LAN	RJ-45 (x1), 1000BASE-T, 100BASE-TX
USB	USB-type A (x6), USB 3.0
HDMI	Type A (x1), HDMI Ver.1.4a
DisplayPort	DisplayPort (x1), Displayport Ver. 1.1a

MKS-X2700 (System Interface Unit)

MVS LAN	RJ-45 (x1), 1000BASE-T
UTIL LAN	RJ-45 (x1), 1000BASE-T
Serial tally	D-sub 9-pin (x2), RS-422A
TALLY/GPI inputs	D-sub 37-pin (x1), TTL level inputs (x34 each)
TALLY/GPI outputs	D-sub 37-pin (x2), relay contact outputs (x18 each)
REMOTE	D-sub 9-pin (x6), RS-422A, various protocols
S-BUS	BNC (x1), S-BUS protocol

*1 Excluding projections.
*2 SMPTE ST 425-1, Level A compliant.
*3 SMPTE ST 425-5, Level A, 2-sample interleave division (2SI) and square division (SQD) compliant.
*4 Square division (SQD) compliant.