XVS-9000

Flagship 4K/3G/HD multi-format IP-ready
video switcher

Overview

Unprecedented power and flexibility for high-end productions

In order to meet growing demands for advanced 4K, HD and High Dynamic Range (HDR) productions, Sony introduces the flagship XVS-9000 to the highly successful and established XVS production switcher family.

The XVS-9000 expands 4K production capacity, offering more inputs and outputs as well as featuring new 4K 3D DME capabilities. With the XVS-9000 come advanced IP and SDI interfaces that are compatible with the entire XVS switcher line-up. 100G IP interface boards fully support SMPTE ST 2110, and new 12G-based SDI interface boards increase flexibility even further by enabling IP/SDI hybrid operating environments. The modular-style design of the ICP-X7000 X-Panel assignable control panel allows highly flexible configuration to suit a wide range of operational needs.

IP Live switcher

The core of the new generation IP Live production system supports the SMPTE ST 2110 Professional Media Over Managed IP Networks suite of standards, enabling a mixed IP and SDI production environment.

12G-SDI based live switcher

The XVS-9000 supports 12G-SDI interfaces functioning on-board format conversion for every incoming and outgoing video signal to offer greater options for applications such as in-house studios, OB vehicles and flypacks.

Powerful 4K switcher

4K production capability similar to HD production, with 5 M/E, 80 inputs, 40 assignable outputs for 4K and format converter outputs, plus up to 10 full keyers and 10 sub-keyers, enabling simultaneous 4K and HD operation, and powerful 4K features.

4K 3D Digital Multi Effects (DME)

The newly developed 4K DME board offers up to 4 channels of floating 4K 3D DME capability for the XVS-9000. This 4K DME board can also be configured with the XVS-8000 and XVS-7000 switchers (up to 2 Ch), and the XVS-6000 switcher (1 Ch).

Evolutionary switcher controller

The XVS-9000 utilizes the ICP-X7000 X-Panel for very flexible panel configuration with a modular style design, OLED display, RGB XPT buttons and LCD button pad. The button layout is also re-designed. The X-Panel has a flexible mounting style for flat or curved mounting, or even for splitting into two positions.

Features

SMTPE ST 2110 over 100G IP interface

Sony's IP Live Production System with the XVS-9000 delivers efficient, flexible workflows to support two key industry standards — SMPTE ST 2110 Media Transport and AMWA NMOS Device Discovery — with the new 100G based IP interface boards. While conventional systems require multiple different types of cabling to carry various signal types (video, audio, reference, metadata and control data), SMPTE ST 2110 requires only a single standard network cable passing through conventional network switches.

12G-SDI interfaces
New 12G-SDI input and output boards further expand the line-up of XVS interface options. The 12G-SDI interface boards have on-board input or output format converters, and any input or output signal can be converted to an appropriate video signal.

Highly flexible and scalable configuration
The processors of the XVS-9000 can be configured to suit specific application needs in terms of operation, resolution, frame rate, number of inputs and outputs, number of M/E banks, and more.

5 M/E for large 4K production systems
5 M/E functionality allows operation with different video formats per M/E, allowing 4K and HD simultaneous operation.

80 inputs and 40 assignable outputs for 4K
Up to 80 inputs and up to 40 assignable outputs are configurable depending on the Input and Output option configuration. In addition, 4 channels of multi-viewer are also available.

Extensive video format support
4K 2SI/SQD, 3G Level-A
1080/59.94p,50p,
1080/59.94i,50i,
etc.

Optional integrated 4K DME board
Up to 4 channels of 3D DMEs, not only 3D linear effects but 3D non-linear effects, for 4K system is capable by installing the new 4K DME optional boards into the XVS-9000.

Flexible X-Panel assignable modular designs
The ICP-X7000 X-Panel offers very flexible panel configuration with a modular style design, OLED display, RGB XPT buttons and LCD button pad. The button layout is also re-designed. The X-Panel has a flexible mounting style for flat or curved mounting, or even for splitting into two positions. XPT FlexiPad allows function mapping customisation according to your operators' preferences.

Specifications

General	
Mass	Approx. 87 kg (when equipped with all installable option boards)

Remote Control Connector	
NETWORK (MVS LAN)	RJ-45, complies with 1000BASE-T standard
NETWORK (UTL LAN*)	RJ-45, complies with 1000BASE-T standard

Reference Input

Reference Input	REF IN BNC type, 75Ω with loop-through output HDTV systems: HD tri-level sync/SDTV analog black burst/SDTV analog sync SDTV systems: Analog black burst/analog sync

AC Input

AC IN A, B, C, D, E, F	3-pin AC connector

Input/Output

Maximum number of inputs	BNC (x 160) for primary inputs**
Maximum number of outputs	BNC (x 80) for outputs** BNC (x 16) for format converter outputs/Multi Viewer (4CH)**

Notes

*	For future use
**	Alternative connections for QSFP28 are available

Accessories

XVS-7000

HD video switcher with 4K and IP live production capabilities

XVS-8000

Flagship 4K/3G/HD/SD multi-format video switcher

XVS-6000

Entry-level HD video switcher with 4K and IP live production capabilities

ICP-X7000

Control panel for MVS-X Series switchers

MVS-7000X

High-end 3G / HD / SD switcher

Gallery