

## ICP-X7000

Control panel for MLS-X1 and  
XVS series switchers



### Overview

#### **Assignable modular X-Panel design for XVS Series and MLS-X1 switchers**

Sony is the pioneer of the modular style of design with the heart of operations for video switchers. Now Sony involves the new switcher control panel as ICP-X7000 Series Control Panel "X-Panel", inheriting all of the modular capability and operability from the CCP-8000 Series MVS Control Panel which has firmly established a stellar reputation since its debut in 2001.

The X-Panel offers very flexible panel configuration with a modular style design, providing a flexible mounting style for slat or curved mounting, or even for splitting into two positions. The X-Panel can be combined with the XVS Series switchers as well as the MLS-X1 switchers, with keeping its modulability and operability.

#### **Control panel selection to best suit varying needs**

The X-Panel has a variety of panel selections; 1 M/E through 4 M/E control panel rows, 20 XPT, 28 XPT or 36 XPT buttons, standard, narrow or small panel chassis, combined or separated panel row configuration, physical or virtual control surface. These types of control panel are suitable for any facilities from where control space is sufficient like main control rooms and large OB trucks, to where space is strictly limited such as the back bench in main control rooms, small OB trucks, small news production rooms, and so forth.

## **Enhanced operability**

OLED display, RGB XPT buttons, LCD button pad and re-designed button layout enable steady status recognition and accurate button push with confidence where both speed and accuracy are required in live production.

## **Single panel and multi-panel configurations increase your options**

With System Interface Unit (SIU) MKS-X2700 or MKS-X7700 as a device controller and Switcher Control Station (SCS) PWS-110SC1, you can operate the switcher as a single panel system or multi-panel system, greatly increasing your options. Required option varies depending on switcher model.

## **Virtual Shot Box and Virtual Menu for Tablet/PC operations (XVS-9000/8000/7000/6000 only)**

Virtual Shot Box and Virtual Menu which are the Web applications on the XVS Series switchers can provide you with other ways of switcher operations with Remote & Touch live user interface and extension menu interface, respectively, allowing a second operator to access to the switcher.

## **Data Manager for sharing switcher data**

Improves data management workflow and can reduce show set-up times, as well as making for data back-up and maintenance.

## **Switcher Control Panel**

- ICP-X7000 Series
- MKS-X7011 – Menu Panel
- MKS-X7017 – 36 XPT Module
- MKS-X7018 – 28 XPT Module
- MKS-X7019 – 20 XPT Module
- MKS-X7020 – Standard Transition Module
- MKS-X7021 – Simple Transition Module
- MKS-X7023 – Key Transition Module
- MKS-X7024 – FlexiPad Module

- MKS-X7026 – 10-key Pad Module
- MKS-X7031TB – Track Ball Module
- MKS-X7032 – Key Fader Module
- MKS-X7033 – Utility/Shot Box Module
- MKS-X7035 – Key Control Module
- MKS-X7040 – Blank Panel (1/3)
- MKS-X7041 – Blank Panel (1/2)
- MKS-X7042 – Blank Panel (1/6)
- MKS-X7075 – Extension Adapter
- PWS-110SC1 – Switcher Control Station

### **Aux Bus Remote Panel**

- MKS-R1620 - 16 Button Remote Control Panel
- MKS-R3210 - 32 Button Remote Control Panel

### **Device Control Unit**

- MKS-X2700 – System Interface Unit
- MKS-X7700 – System Interface Unit
- MKS-X7701 – Tally/GPI Output Board
- MKS-X7702 – Serial Interface Board

### **Virtual Shot Box Software (XVS-9000/8000/7000/6000 only)**

- BZPS-7020 - Virtual Shot Box Base Software
- BZPS-7021 - Virtual Shot Box Additional Software

### **Virtual Menu (XVS-9000/8000/7000/6000 only)**

- BZPS-7030 - Virtual Menu Base Software
- BZPS-7031 - Virtual Menu Additional Software

## Features

### **Flexible X-Panel assignable modular design**

The 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 to provide operators with steady status recognition and the confidence of

button push accuracy. And the X-Panel is highly assignable; XPT FlexiPad allows function mapping customisation according to your operators' preferences.

## **Single panel and multi-panel configurations increase your options**

With System Interface Unit (SIU) MKS-X2700 or MKS-X7700 as a device controller and Switcher Control Station (SCS) PWS-100SC1, you can operate the switcher as a single panel system or multi-panel system, greatly increasing your options.

## **More Freedom of control with the Virtual Shot Box and Virtual Menu**

The XVS Series control panel can be partly operated remotely via Ethernet using the web application called Virtual Shot Box and Virtual Menu.

With Virtual Shot Box, buttons and functions are customizable so you can assign macro, snapshot, shot box, XPT switching, and other functions as you wish, whereas the operational menus on the Menu Panel MKS-X7011 can be utilised in the Virtual Menu application by which the engineering operation can be free. These web applications can be used on any device with a web browser installed with Ethernet connection; this means that wireless operation is also supported using mobile devices. There are many possibilities using these applications. For example, you can use Virtual Shot Box with the control panel as a shot box or assist the main switcher operator from any location; in addition, the anchor or talent can use it by themselves, switching on-air images from a sports arena and more.

## **Data Manager for sharing switcher data**

Improves data management workflow and can reduce show set-up times, as well as making for data back-up and maintenance.

## Specifications

### General

	<p>ICP-X7000 Series</p> <ul style="list-style-type: none"> <li>• 42.5 V to 57 V (PoE+), 12V DC</li> </ul>
Power requirements	<p>PWS-110SC1, MKS-X7700, MKS-X2700</p> <ul style="list-style-type: none"> <li>• AC 100 V to 240 V, <math>\pm 10\%</math> 50/60 Hz</li> </ul>
	<p>ICP-X7000 Series</p> <ul style="list-style-type: none"> <li>• 0.6A (PoE+), 2.1A DC</li> </ul>
	<p>MKS-X7011 (Menu Panel)</p> <ul style="list-style-type: none"> <li>• 0.5A (PoE+), 1.6A DC</li> </ul>
	<p>MKS-X7075 (Extension Adaptor)</p> <ul style="list-style-type: none"> <li>• 0.35A (PoE+), 1.2A DC</li> </ul>
Current consumption	<p>PWS-110SC1</p> <ul style="list-style-type: none"> <li>• 4.0A to 1.5A</li> </ul>
	<p>MKS-X7700</p> <ul style="list-style-type: none"> <li>• 1.0A to 0.5A</li> </ul>
	<p>MKS-X2700</p> <ul style="list-style-type: none"> <li>• 0.5A to 0.3A</li> </ul>
Operating	<p>ICP-X7000 Series, MKS-X7700, MKS-X2700</p> <ul style="list-style-type: none"> <li>• 5°C to 40°C (41°F to 104°F)</li> </ul>

temperature

PWS-110SC1

- 5C to 35C (41F to 95F)

Dimensions (W/H/D) -  
ICP-X7000 Series  
(excluding projections)

Main Panel

- 4 M/E, 36-crosspoint buttons (standard type): 1522 (with mount bracket) x 130 x 588 mm
- 3 M/E, 28-crosspoint buttons (standard type): 1368 (with mount bracket) x 123 x 442 mm
- 2 M/E, 20-crosspoint buttons (standard type): 1214 (with mount bracket) x 116 x 295 mm
- 2 M/E, 20-crosspoint buttons (narrow type): 994 (with mount bracket) x 116 x 295 mm
- 2 M/E, 20-crosspoint buttons (small type): 847 (with mount bracket) x 123 x 442 mm
- 1 M/E, 20-crosspoint buttons (standard type): 1214 (with mount bracket) x 93.5 x 149 mm

- 1 M/E, 20-crosspoint buttons (narrow type): 994 (with mount bracket) x 93.5 x 149 mm
- 1 M/E, 20-crosspoint buttons (small type, 2 rows): 847 (with

mount bracket) x 116 x 295 mm  
 • 1 M/E, 20-crosspoint buttons  
 (small type, 1 row): 847 (with  
 mount bracket) x 93.5 x 149 mm

Dimensions (W/H/D) -  
 ICP-X7000 Series  
 (excluding projections)  
 cont'd.

Auxiliary Bus Panel

- 36-crosspoint buttons: 863 (with  
 mount bracket) x 94.6 x 146 mm
- 28-crosspoint buttons: 708 (with  
 mount bracket) x 94.6 x 146 mm
- 20-crosspoint buttons: 554 (with  
 mount bracket) x 94.6 x 146 mm

Menu Panel

- 424 x 221 x 46 mm

Extension Adaptor

- 262 (with mount bracket) x 146 x  
 93 mm

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Dimensions (W/H/D) -  
 PWS-110SC1  
 (excluding projections)

482 x 44 x 634 mm

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Dimensions (W/H/D) -  
 MKS-X7700 (excluding  
 projections)

482 x 176 x 486 mm

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Dimensions (W/H/D) -  
 MKS-X2700 (excluding

482 x 44 x 520 mm

projections)

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Mass - ICP-X7000 Series	Main Panel
	• 4 M/E, 36-crosspoint buttons (standard type): 39 kg
	• 3 M/E, 28-crosspoint buttons (standard type): 30 kg
	• 2 M/E, 20-crosspoint buttons (standard type): 22 kg
	• 2 M/E, 20-crosspoint buttons (narrow type): 12 kg
	• 2 M/E, 20-crosspoint buttons (small type): 15 kg
	• 1 M/E, 20-crosspoint buttons (standard type): 12 kg
	• 1 M/E, 20-crosspoint buttons (narrow type): 6 kg
	• 1 M/E, 20-crosspoint buttons (small type, 2 rows): 10 kg
	• 1 M/E, 20-crosspoint buttons (small type, 1 row): 5 kg

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Mass - ICP-X7000 Series cont'd.	Auxiliary Bus Panel
	• 36-crosspoint buttons: 4.4 kg
	• 28-crosspoint buttons: 3.8 kg
	• 20-crosspoint buttons: 3.2 kg

Menu Panel

- 2.5 kg



	Extension Adaptor
	• 2 kg
Mass - PWS-110SC1	14 kg
Mass - MKS-X7700	15 kg (fully loaded)
Mass - MKS-X2700	8 kg

## Remote Control Connector

ICP-X7000 Series	LAN: RJ-45 (x1), 1000BASE-T(PoE+)
PWS-110SC1	<ul style="list-style-type: none"> <li>• LAN: RJ-45 (x1), 1000BASE-T, 100BASE-TX</li> <li>• USB: USB-type A (x6), USB 3.0</li> <li>• HDMI: Type A (x1), HDMI Ver.1.4a</li> <li>• DisplayPort: DisplayPort (x1), Displayport Ver. 1.1a</li> </ul>
	<ul style="list-style-type: none"> <li>• MVS LAN: RJ-45 (x1), 1000BASE-T</li> <li>• UTIL LAN: RJ-45 (x1), 1000BASE-T</li> <li>• Serial Tally: D-sub 9-pin (x2), RS-422A</li> <li>• TALLY/GPI Input: D-sub 37-pin (x2), TTL level inputs (x34 each)</li> <li>• REMOTE: D-sub 9-pin (x4) , RS-422A, various protocols</li> <li>• S-BUS: BNC (x1), S-BUS protocol</li> </ul>

MKS-X7700

Optional

- TALLY/GPI Outputs\* (MKS-X7701 Tally/GPI Output Board): D-sub 37-pin (x3), relay contact outputs 18 ch, up to 324 ch in step of 54 ch in a frame
- REMOTE\* (MKS-X7702 Serial Interface Board): D-sub 9-pin (x6), RS-422A, various protocols, up to 36 ports in steps of 6 ports in a frame

MKS-X2700

- 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 Input: D-sub 37-pin (x1), TTL level inputs (x34 each)
- TALLY/GPI Output: 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

## Note

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Mixed configuration of optional boards is available for six slots.

## Related products



### **XVS-8000**

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



### **XVS-7000**

Mid-range 4K/3G/HD video switcher for IP and SDI



### **XVS-6000**

Entry-level 4K/3G/HD video switcher for IP and SDI



### **XVS-9000**

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



### **MVS-7000X**

High-end 3G / HD / SD switcher



### **XVS-1M/E Pack**

3G-capable, 4K-ready, IP-ready XVS Series switchers in an affordable pack



### **XVS-2M/E Pack**

3G-capable, 4K-ready, IP-ready XVS Series Switchers in an affordable pack



### **PWS-110NM1**

IP Live System Manager Station



### **MLS-X1**

Scalable and Reconfigurable Live Production Processor/Switcher

## Gallery

