

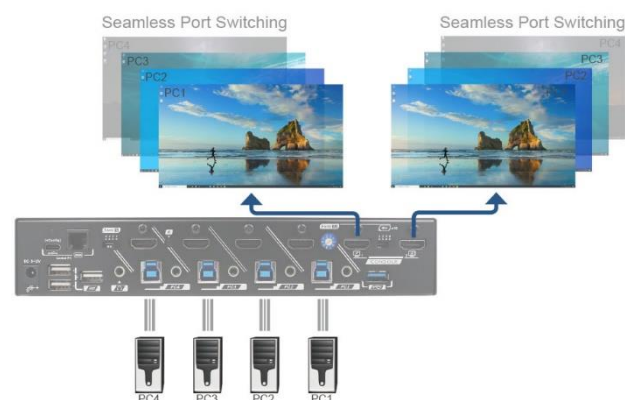
KVM Matrix Switch

4x2 HDMI 2.0 Seamless KVM Matrix Switch, Full-Frame PBP, USB 3.0, Mouse Roaming, Button/Hotkey/Serial Ctrl

Model: KMX-4KH42-U30R

PRODUCT OVERVIEW

The Dual-Monitor 4-port HDMI 2.0 KVM Matrix Switch allows you to easily control 4 HDMI computers with one set of USB keyboard and mouse and simultaneously monitor any two out of the four PC screens, enhancing productivity. Users can switch between 4 PCs using the KVM's hotkey and push buttons or remotely access the KVM via serial control function.



USB and Audio

The 4-port HDMI Matrix KVM supports not only USB HID keyboard and mouse operation but also USB 3.2 Gen 1 peripheral sharing without requiring any software or driver installation. It is compatible with Windows, Mac, Linux, and Chrome OS. A unique tracking system enables the Audio/USB device to be operated independently, which is useful if you want to listen to music or transfer file data from one particular computer while operating another PC.

Full-Frame PBP (a PBP Monitor is required)



The Switch unique Full-Frame PBP function allows video sources to be displayed on a PBP (Picture by Picture) monitor in full-screen mode, utilizing the entire monitor space. This feature enables two desktop screens to be evenly and entirely displayed on the PBP monitor without distortion or black borders, ensuring a seamless viewing experience.

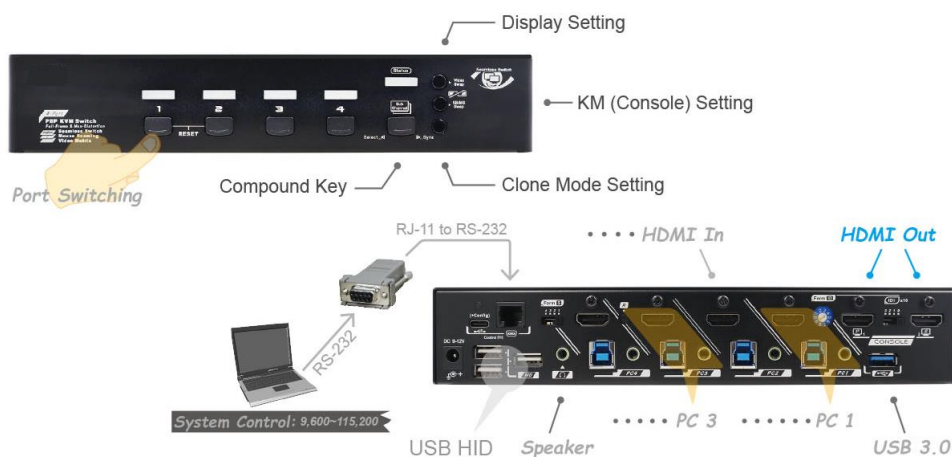
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Stable EDID Transmission

The Switch features unique EDID configuration technology that ensures unified and continuous video streaming, optimizing video output and preventing issues like video flickering or black screens when switching KVM host ports.

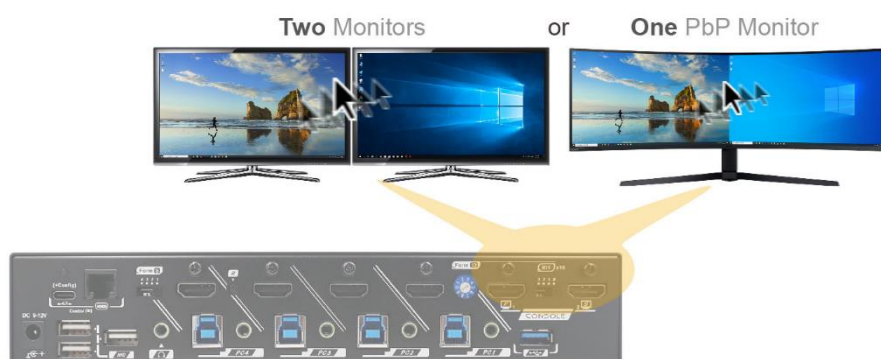
Serial Control

The Switch supports various control methods, including front-panel buttons, keyboard, mouse, or serial commands. It includes a built-in RJ-11/USB-C port (DB9 to RJ11/Virtual COM Port) for easy and convenient serial connection. The ability to switch via serial command on the HDMI KVM Matrix Switch is designed for industrial control and communication purposes, enhancing KVM switch functionality and serial device management.



Mouse Roaming

The innovative Mouse Roaming function transforms computer switching from a task of selecting PCs through complex hotkeys into an intuitive and seamless experience. With the Mouse Roaming function, users can move the cursor across the screen border to switch among computers, offering a smooth and enjoyable user experience in computer control and management.



KVM Matrix Switch

KEY FEATURES

- Allows 4 computers to share 1 set of KVM Console
- Seamless switch enables Zero-Latency Switching for optimal productivity
- Supports most popular resolutions via HDMI 2.0, up to 4K@60Hz (4:4:4), & aspect ratios of 16:9 / 21:9 / 32:9
- 4x2 Video Matrix (MbM Modes) allows free routing of 4 PCs to 2 video outputs
- Unique Full-Frame PbP (PbP Modes) ensures maximized operating area with PbP-ready monitors
- HDCP 2.2 & 1.4 compliance ensures uninterrupted video playback
- EDID Management ensures proper resolutions (Follows Output 1 Monitor)
- 3 flexible switching control methods:
 1. 1. Front Push Buttons
 2. 2. Hotkey Control
 3. 3. Mouse Roaming
- USB 3.2 Gen 1 supports most devices up to 5Gbps
- Plug-and-Play without software or driver requirements
- Serial control facilitates industrial control
- Supports Windows, Mac, Linux, and Chrome OS
- Independent switching of audio & USB 3.2 allows audio & USB 3.2 to either switch with the console or stay at a certain PC Port

PRODUCT SPECIFICATIONS

Model Number	KMX-4KH42-U30R
Computer / Server Ports (Input)	HDMI 2.0 In x 4 (Single Video x 4 PCs) USB 3.2 Gen 1 Type B x 4 3.5mm Speaker Jack In x 4
Console Ports (Output)	HDMI 2.0 Out x 2 USB 3.2 Gen 1 Type A x 1 (Rear) USB HID Type A x 3 (Rear) 3.5mm Speaker Jack Out x 1

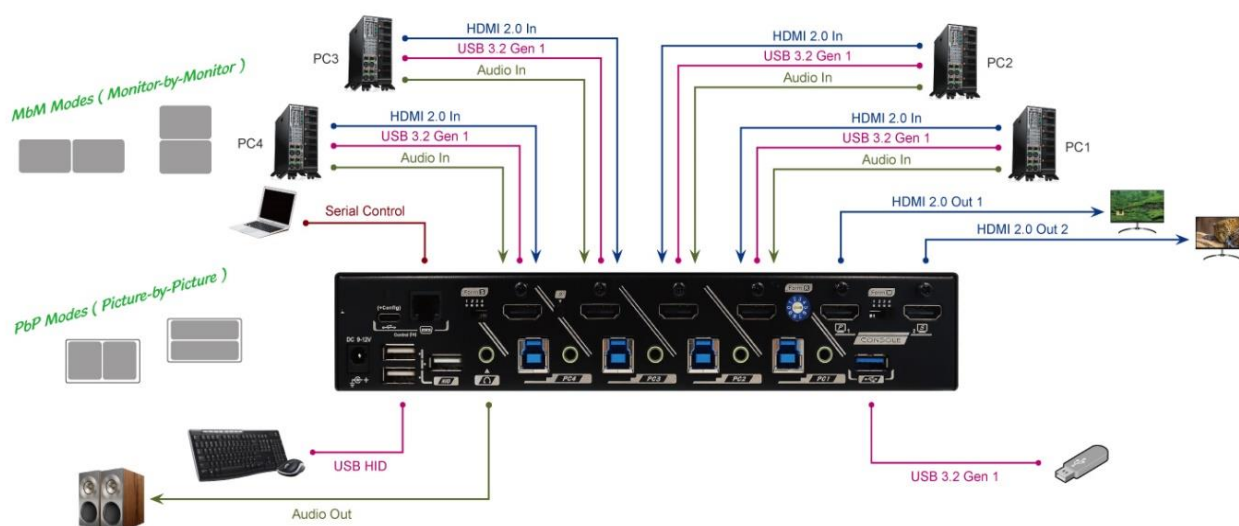
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Model Number	KMX-4KH42-U30R
Video Resolution (Max)	3840 x 2160@60Hz (4:4:4) (16:9) 2560 x 1440@60Hz (4:4:4) (16:9) 1920 x 1080@60Hz (4:4:4) (16:9) 3840 x 1600@60Hz (4:4:4) (21:9) 3440 x 1440@60Hz (4:4:4) (21:9) 2560 x 1080@60Hz (4:4:4) (21:9) 3840 x 1080@60Hz (4:4:4) (32:9)
Serial Control	RJ-11 x 1 (19200bps, 8-Selections: 9600 ~ 115200bps) USB-C x 1
Push Buttons	Port Selection x 4 Status Function x 1 Video Swap x 1 Console Swap x 1 Sync x 1
Control Methods	Mouse Roaming / Push Button / Hotkey / Serial
LED Indicator (Power / Status)	Red x 4 (Console Video) Blue x 4 (Sub Video) Green x 4 (PC Ready)
Video Matrix Modes (Layouts)	<p>MbM Mode (Monitor-by-Monitor) < H-MbM = Horizontal 2 Monitors Mode > < V-MbM = Vertical 2 Monitors Mode ></p> <p>PbP Mode (with Built-In PbP Enabled Monitor) < H-PbP = Horizontal Mode with Monitor Built-In PbP Function > < V-PbP = Vertical Mode with Monitor Built-In PbP Function ></p>
Video Mode Resolution	3840 x 2160@60Hz (MbM Mode) / (V-MbM, H-MbM) (16:9) 2560 x 1440@60Hz (MbM Mode) / (V-MbM, H-MbM) (16:9) 1920 x 1080@60Hz (MbM Mode) / (V-MbM, H-MbM) (16:9) 3840 x 1600@60Hz (MbM Mode) / (V-MbM, H-MbM) (21:9) 3440 x 1440@60Hz (MbM Mode) / (V-MbM, H-MbM) (21:9) 2560 x 1080@60Hz (MbM Mode) / (V-MbM, H-MbM) (21:9) 3840 x 2160@60Hz (PbP Mode) / (V-PbP) (16:9) (Dual 3840 x 1080) 2560 x 1440@60Hz (PbP Mode) / (V-PbP) (16:9) (Dual 2560 x 720) 1920 x 1080@60Hz (PbP Mode) / (V-PbP) (16:9) (Dual 1920 x 540) 3840 x 2160@60Hz (PbP Mode) / (H-PbP) (16:9) (Dual 1920 x 2160) 2560 x 1440@60Hz (PbP Mode) / (H-PbP) (16:9) (Dual 1280 x 1440) 1920 x 1080@60Hz (PbP Mode) / (H-PbP) (16:9) (Dual 960 x 1080)

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	<p>5120 x 2160@60Hz (PbP Mode) / (H-PbP) (21:9) (Dual 2560 x 2160) 3840 x 1600@60Hz (PbP Mode) / (H-PbP) (21:9) (Dual 1920 x 1600) 3440 x 1440@60Hz (PbP Mode) / (H-PbP) (21:9) (Dual 1720 x 1440) 2560 x 1080@60Hz (PbP Mode) / (H-PbP) (21:9) (Dual 1280 x 1080)</p> <p>7680 x 2160@60Hz (PbP Mode) / (H-PbP) (32:9) (Dual 3840 x 2160) 5120 x 1440@60Hz (PbP Mode) / (H-PbP) (32:9) (Dual 2560 x 1440) 3840 x 1080@60Hz (PbP Mode) / (H-PbP) (32:9) (Dual 1920 x 1080)</p>
PBP Function Mode	Support 16:9, 21:9, 32:9 Displays
HDCP Compliance	HDCP 2.2 & 1.4
HDCP Engine	Yes
Power Supply	12V/3A DC Power Adapter
Operation Environment	0 ~ 40°C, Humidity < 80%
Storage Temperature	-20 ~ 60°C
Enclosure	Metal
H x W x D (mm)	44 x 240 x 160
Weight (g)	940

CONNECTION DIAGRAM



KVM Matrix Switch

PACKAGE CONTENTS

- 1 × KMX-4KH42-U30R KVM Matrix Switch
- 1 × 12V/3A DC Power Adapter
- 1 × User Manual
- 1 × Foot Pad Set

WARRANTY

- 1-Year Limited Warranty
- Advance Replacement Warranty is available and optional

ORDERING INFORMATION

Part Number	Descriptions
KMX-4KH42-U30R	4x2 4K60 HDMI KVM Matrix Switch with Seamless Switching, Scaler, Full-Frame PBP Function, USB 3.0, Mouse Roaming, Button/Hotkey/Serial Control

CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

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- **Email:** sales.apac@dsgio.com

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