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› J-Tech Digital 4K@30HZ 4-Port HDMI Switch with PIP User Manual

J-Tech Digital JTECH-4KPIP0401

J-Tech Digital 4K@30HZ 4-Port HDMI Switch with PIP User Manual

Model: JTECH-4KPIP0401

1. INTRODUCTION

The J-Tech Digital 4K@30HZ 4-Port HDMI Switch with Picture-in-Picture (PIP) allows users to connect up to four HDMI source devices to a single HDMI display. This device supports resolutions up to 4Kx2K@30HZ and includes features such as an IR wireless remote control and an auto-switch function. The PIP feature provides a live video preview of each connected device, simplifying source selection.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x J-Tech Digital 4K HDMI Switch (Model: JTECH-4KPIP0401)
- 1x IR Remote Control
- 1x 5V/1A DC Cable
- 1x 5V/1A DC Adapter
- 1x User Manual

PIP Mode (Picture in Picture)

PIP function supports 1080P/720P only

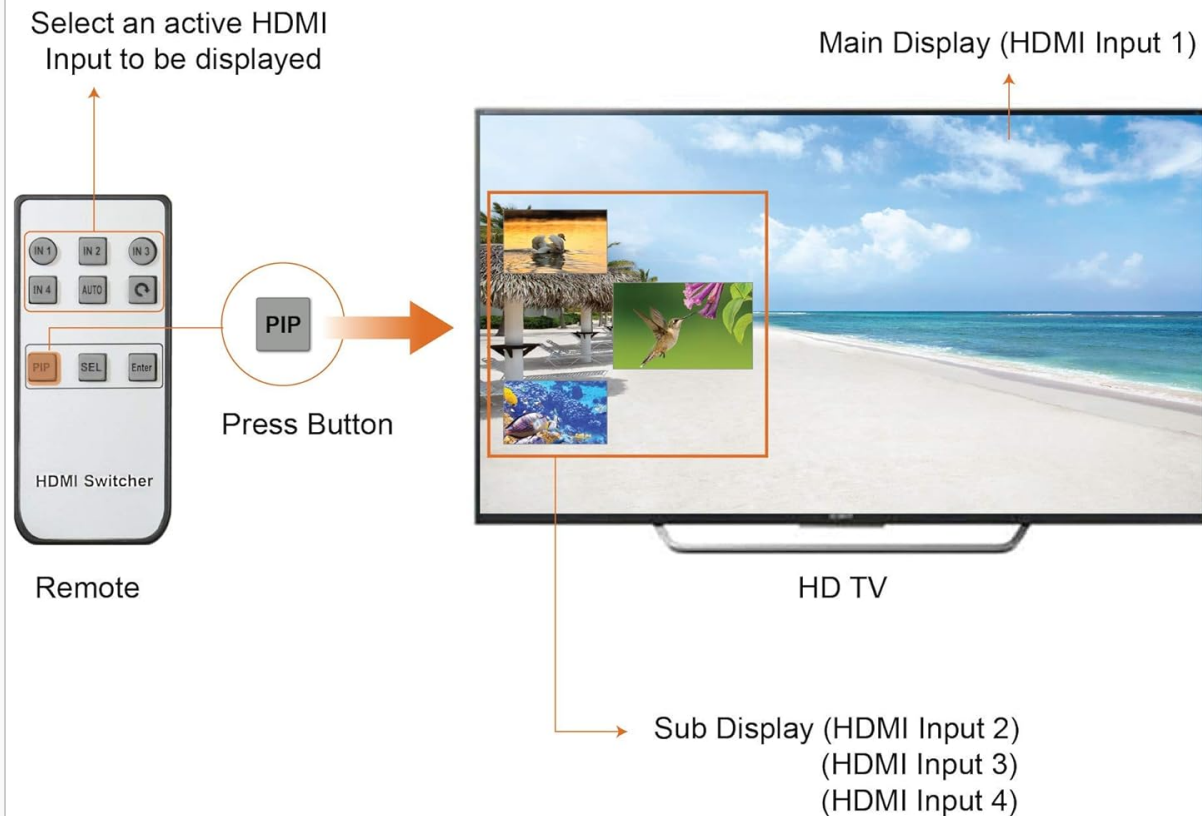


Figure 2.1: Package Contents. This image displays the main HDMI switch unit, the infrared remote control, a 5V/1A DC power cable, a 5V/1A DC power adapter, and the user manual.

3. PRODUCT FEATURES

- Connects up to four HDMI source devices to one HDMI display.
- Supports video resolutions up to 4Kx2K@30HZ.
- HDCP 1.4 Compliant (does not support HDCP 2.2).
- Supports 3D video formats.
- Supports deep color (24/30/36 bit).
- Digital audio support: DTS/DTS-HD/Dolby-trueHD/Dolby-AC3/DSD.
- Picture-in-Picture (PIP) function for previewing multiple sources (supports up to 1080P).
- Seamless switching between sources.
- Auto Switch ON/OFF function: Automatically switches to the most recently connected or powered-up source when enabled.
- IR Wireless Remote Control for convenient operation.

4. PRODUCT OVERVIEW AND INTERFACE

Familiarize yourself with the physical layout and connections of the HDMI switch.



Figure 4.1: Front and Back Panel Interface. The front panel includes Power, AUTO, IR, OUT, IN1, IN2, IN3, IN4 indicators, and a Switch (SW) button. The back panel features a 5V Power Supply Port, four HDMI IN ports (HDMI IN1 to HDMI IN4), and one HDMI OUT port.

Front Panel

- **Power Indicator:** Illuminates when the device is powered on.
- **AUTO Indicator:** Illuminates when the auto-switch function is active.
- **IR Receiver:** Receives signals from the IR remote control.
- **OUT Indicator:** Illuminates when the HDMI output is active.
- **IN1-IN4 Indicators:** Illuminates to show which HDMI input is currently selected.
- **SW (Switch) Button:** Press to manually cycle through HDMI inputs.

Rear Panel

- **5V Power Supply Port:** Connect the provided 5V/1A DC power adapter.
- **HDMI IN1-IN4 Ports:** Connect your HDMI source devices (e.g., DVD player, game console, laptop).
- **HDMI OUT Port:** Connect to your HDMI display (e.g., UHD TV).

5. SETUP INSTRUCTIONS

Follow these steps to set up your J-Tech Digital HDMI Switch:

1. **Connect HDMI Sources:** Connect up to four HDMI source devices (e.g., Xbox, Laptop, Blu-ray Player, DVD Player) to the HDMI IN1, IN2, IN3, and IN4 ports on the rear panel of the switch using HDMI cables.
2. **Connect HDMI Display:** Connect your UHD TV or other HDMI display to the HDMI OUT port on the rear panel of the switch using an HDMI cable.
3. **Connect Power:** Connect the provided 5V/1A DC power adapter to the 5V Power Supply Port on the rear panel of the switch, then plug the adapter into a power outlet. The Power indicator on the front panel will illuminate.
4. **Power On Devices:** Power on all connected HDMI source devices and your HDMI display.
5. **Select Input:** The switch will automatically select an active input if the auto-switch function is enabled. Otherwise, use the SW button on the front panel or the IR remote control to select the desired input.

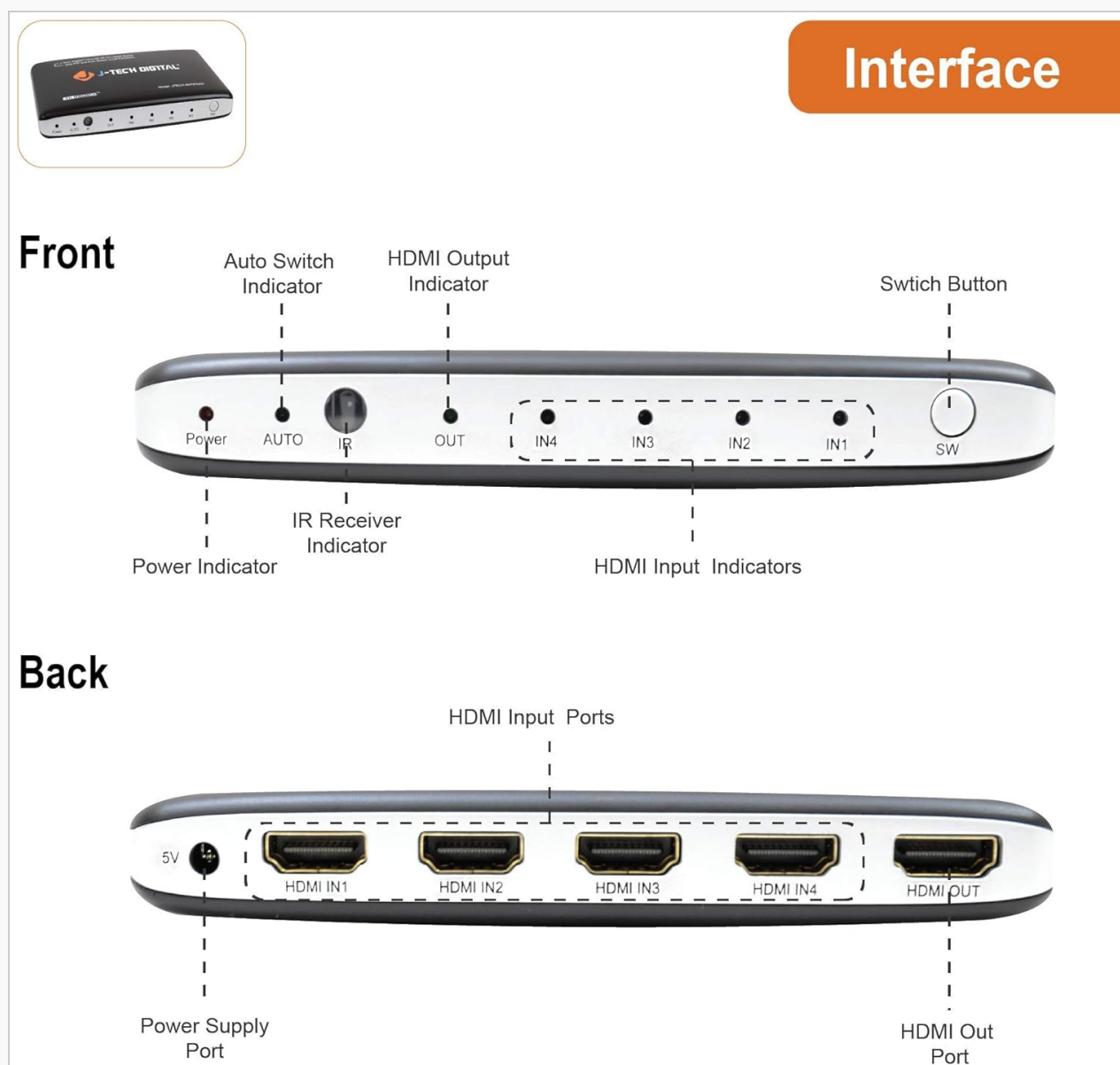


Figure 5.1: Connection Diagram. This diagram illustrates the typical setup, connecting various HDMI source devices to the switch's input ports and the switch's output port to a UHD television.

6. OPERATING INSTRUCTIONS

6.1 Input Switching

You can switch between HDMI inputs using two methods:

- **Manual Switching:** Press the **SW** button on the front panel of the switch to cycle through the connected HDMI inputs (IN1, IN2, IN3, IN4).
- **Remote Control Switching:** Use the IR remote control to directly select an input by pressing the corresponding number button (IN1, IN2, IN3, IN4).

6.2 Auto Switch Function

The auto-switch function can be enabled or disabled to suit your preferences:

- When the auto-switch function is **ON**, the device will automatically switch to the most recently connected or powered-up source. The **AUTO** indicator on the front panel will be lit.
- When the auto-switch function is **OFF**, the device will remain fixed on the currently selected source, requiring manual switching.
- To toggle the auto-switch function, press the **AUTO** button on the IR remote control.

6.3 Picture-in-Picture (PIP) Mode

The PIP feature allows you to view a main HDMI input while simultaneously displaying smaller preview windows of other connected inputs. This function supports resolutions up to 1080P/720P.

1. Ensure multiple HDMI sources are connected and active.
2. Press the **PIP** button on the IR remote control to activate PIP mode. The main display will show the currently selected input, and smaller windows will appear for other active inputs.
3. Use the **SEL** (Select) button on the remote to cycle through the smaller sub-display windows, changing which input is shown in the preview.
4. Press the **Enter** button on the remote to switch the main display to the input currently highlighted in a sub-display window.
5. To exit PIP mode, press the **PIP** button again.



Figure 6.1: PIP Mode Operation. This image demonstrates how the Picture-in-Picture function works, showing a main video source and multiple smaller preview windows from other connected HDMI inputs on a single display.

6.4 IR Remote Control

The IR remote control provides full functionality for the HDMI switch. Ensure there is a clear line of sight between the remote and the IR receiver on the front panel of the switch.

Packing List



4K HDMI Switcher



User Manual



IR Remote



5V/1A DC Cable



5V/1A DC Adapter

Figure 6.2: IR Remote Control. This image shows the layout of the remote control, highlighting buttons for input selection, auto-switch, and PIP mode controls.

7. MAINTENANCE

To ensure optimal performance and longevity of your J-Tech Digital HDMI Switch, follow these maintenance guidelines:

- Keep the device in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Avoid placing heavy objects on top of the switch.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure all cables are securely connected to prevent signal loss or intermittent issues.
- If the device will not be used for an extended period, disconnect the power adapter.

8. TROUBLESHOOTING

If you encounter issues with your HDMI switch, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No video output	Loose HDMI cables, incorrect input selection, power issue, incompatible resolution.	<p>Check all HDMI cable connections.</p> <p>Ensure the correct input is selected on the switch and the display.</p> <p>Verify the power adapter is connected and the power indicator is on.</p> <p>Try a different HDMI cable.</p> <p>Ensure source device resolution is supported by the display.</p>
Intermittent video/audio	Poor cable quality, cable length, HDCP issues.	<p>Use high-quality HDMI cables.</p> <p>Ensure HDMI cable length is within recommended limits.</p> <p>Restart all connected devices (source, switch, display).</p>
Remote control not working	Blocked IR path, dead battery, remote out of range.	<p>Ensure a clear line of sight to the IR receiver.</p> <p>Replace the remote control battery.</p> <p>Move closer to the switch.</p>
PIP mode not working or distorted	Unsupported resolution, too few active sources.	<p>Ensure source resolutions are 1080P or 720P for optimal PIP performance.</p> <p>Verify at least two HDMI sources are active.</p>

9. SPECIFICATIONS

Feature	Detail
Model	JTECH-4KPIP0401
HDMI Version	HDMI 1.4b
HDCP Version	HDCP 1.4 (Does not support HDCP 2.2)
Supported Resolutions	Up to 4Kx2K@30HZ
Deep Color Support	24/30/36 bit
3D Support	Yes
Audio Formats	DTS/DTS-HD/Dolby-trueHD/Dolby-AC3/DSD
PIP Function	Supports up to 1080P
Input Ports	4x HDMI
Output Ports	1x HDMI
Power Supply	DC 5V/1A

Feature	Detail
Item Weight	3.5 Ounces
Dimensions (Approx.)	5.2in (13.2cm) x 3.0in (7.6cm) x 0.5in (1.27cm)



Figure 9.1: Product Dimensions. This image provides a visual representation of the HDMI switch with its approximate measurements.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

This J-Tech Digital product comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact J-Tech Digital customer support.

You can find contact information and additional resources by visiting the official J-Tech Digital website or referring to the contact details provided in your product packaging.

J-Tech Digital is dedicated to providing high-quality audio-video solutions and support. Our knowledgeable team is available to assist you.