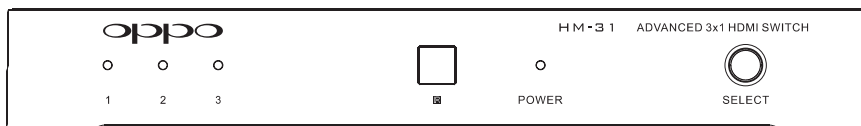


HM-31 ADVANCED 3x1 HDMI SWITCH

USER MANUAL

READ CAREFULLY
BEFORE OPERATION



Important Information



CAUTION: TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instruction in the literature accompanying the appliance.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plug, receptacle, and the point where it exits from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when



unused for long periods of time.

- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trademarks

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- All other trademarks are the properties of their respective owners.

INTRODUCTION

The OPPO HM-31 Advanced 3x1 HDMI¹ Switch enables up to three HDMI source devices (DVD player, cable box, game console, etc.) to be connected to a single HDMI input port on your HDTV or video projector. It can also be used to expand the number of HDMI input ports on a HDMI-equipped audio/video receiver. It is an easy and convenient solution to expand your home theater system.

Features

- Easy and convenient selection from up to three HDMI sources
- HDMI 1.3 specification with DDC² and HPD³ switching
- Supports 1080p, Deep Color⁴, and all HDTV resolutions
- EIA/CEA-861D, DVI 1.0, HDCP 1.1 compliant
- Long cable support with built-in equalizer
- Maintains highest video and audio quality
- Remote control
- Custom installation options – external IR input and RS-232C port

¹ HDMI: High-Definition Multimedia Interface. A standard for connecting consumer electronic devices to deliver high definition digital video, audio and data.

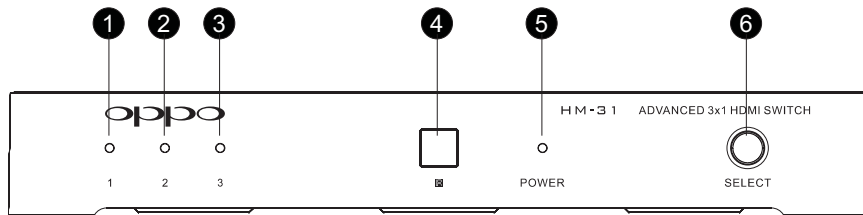
² DDC: Display Data Channel. A part of HDMI and DVI signal channel essential for proper operation.

³ HPD: Hot-Plug Detection. A part of HDMI signal channel essential for proper detection of HDMI devices.

⁴ Deep Color: Part of the HDMI 1.3 specification. Supports 12-bit per color or 36-bit per pixel, and results in richer color and smoother picture.

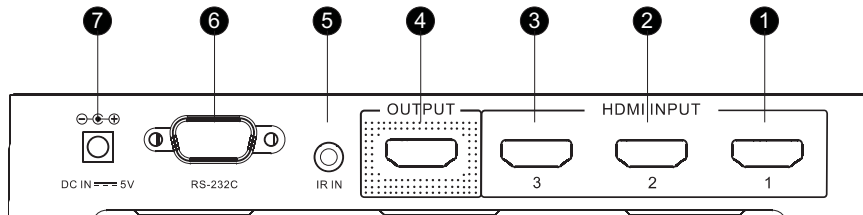
INSTALLATION

Front Panel Controls



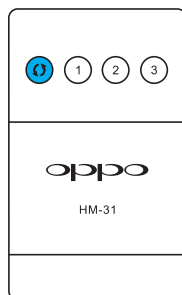
- 1. HDMI INPUT 1 Indicator
- 2. HDMI INPUT 2 Indicator
- 3. HDMI INPUT 3 Indicator
- 4. IR Remote Sensor
- 5. POWER Indicator
- 6. SELECT button

Back Panel Connectors



- 1. HDMI INPUT 1
- 2. HDMI INPUT 2
- 3. HDMI INPUT 3
- 4. HDMI OUTPUT
- 5. External IR Remote Sensor Input
- 6. RS-232C Remote Control Port
- 7. DC Power Jack

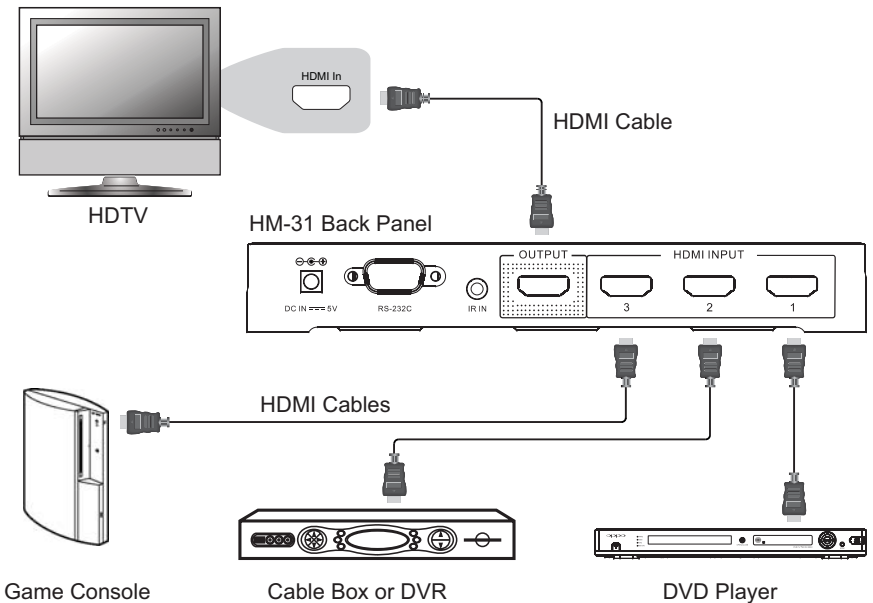
Remote Control



- | Button: | Function: |
|---------|---------------------------------------|
| | Select the next active HDMI input |
| | Directly select a specific HDMI input |

The remote control uses a CR2025 lithium battery. Should you need a replacement battery, it is usually available from your local electronics and camera stores.

Typical Connection



Please follow these simple steps to connect the HMDI Switch:

1. Take an HDMI cable and plug one end into the HDMI INPUT port on your HDTV or video projector. Plug the other end into the OUTPUT port of the HDMI Switch.
2. Take another HDMI cable and plug one end into the HDMI OUTPUT port on your DVD player. Plug the other end into the HDMI INPUT 1 port of the HDMI Switch.
3. Repeat the above step to connect your Cable Box, Digital Video Recorder (DVR) or Game Console.
4. Plug the DC +5V output plug of the power adapter into the DC IN jack of the HDMI Switch. Plug the power adapter into an AC power outlet.

Your HDMI Switch is now properly connected.

Note: The remote control uses infrared light signal and requires direct line-of-sight to the IR Remote Sensor. Please make sure that the IR Remote Sensor is not blocked. Otherwise, please use an External IR Remote Sensor connected to the HDMI Switch.

OPERATION


HDMI Input Indicators




The HM-31 has three HDMI Input Indicator lights on its front panel. When the HM-31 senses audio/video transmission on one of its HDMI INPUT ports, the corresponding HDMI Input Indicator is illuminated in Red color. When an HDMI INPUT is selected for use, the corresponding HDMI Input Indicator is illuminated in Blue color. The HDMI Input Indicator is not illuminated when there is no input signal or no HDMI cable connected.

Input Selection with the Front Panel Button

To select an HDMI input, press the SELECT button on the front panel of the HDMI switch. Each press of the button progresses to the next active HDMI INPUT. Signal from the selected HDMI INPUT is sent to the OUTPUT port and its corresponding HDMI Input Indicator is illuminated in Blue.

Input Selection with the Remote Control

The  button on the remote control has the same function as the SELECT button on the front panel.

There are also direct input selection buttons    on the remote control. Pressing each button selects the corresponding HDMI INPUT port, no matter whether the port has active input signal or not.

Automatic Input Selection

The HDMI INPUT ports 1, 2 and 3 are prioritized, with port 1 having the highest priority and port 3 the lowest. When the HM-31 HDMI Switch senses a new input signal on a port with higher priority than the currently selected port, it automatically switches to the high priority port. When input signal ceases on the currently selected port, the HM-31 HDMI Switch automatically switches to the port with next priority and active signal. This priority makes it possible to automatically select input without touching the remote control or front panel. Simply turn on the desired source device and the HM-31 HDMI Switch will automatically select the correct HDMI INPUT port.

For example, in the "Typical Connection" diagram on page 5, if you turn on the DVD player, the HDMI Switch will automatically select HDMI INPUT 1. To watch cable TV, simply turn off the DVD player and turn on the cable box. To play games, simply turn on the Game Console and turn off other devices.

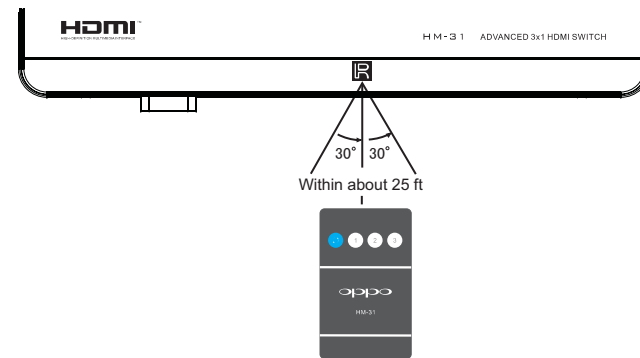
Note: Some cable box models have an active HDMI output even when they are turned off. In this case please connect the cable box to HDMI INPUT 3 so it has the lowest priority.

MOUNTING OPTIONS

Wall Mounting

The HM-31 HDMI Switch can be wall-mounted. To vertically mount the HM-31 HDMI Switch, please drill two holes on the wall using the included wall-mount template as guidance. Install appropriate anchors if necessary. Screw in two flat head screws into the holes or anchors, and leave approximately 1/16 inch space between the screw head and the wall surface. Hang the HM-31 HDMI Switch on the screws using the key holes on the bottom of the HDMI Switch. Due to the variation of possible mounting surfaces, mounting hardware is not included.

There is an additional IR Remote Sensor on the top of the HM-31 HDMI Switch to facilitate wall-mount operation. Please make sure that it is not blocked to ensure reliable remote control.



Hidden Placement

If you would like to place the HM-31 HDMI Switch at a hidden location, please purchase an External IR Remote Sensor (OPPO part number IR-ES1) and plug it into the IR IN port on the back panel of the HDMI Switch. Place the sensor head at a location where there is direct line-of-sight to ensure reliable operation. The External IR Remote Sensor is available from your dealer or directly from OPPO Digital, Inc.

Custom Installation

If your home theater system has an integrated control system, please ask your custom installer to contact OPPO for the RS-232C control protocol. The HM-31 HDMI Switch has an RS-232C control port and can be integrated into most custom home theater control systems.

REFERENCES

Specifications

Designs and specifications are subject to change without notice.

Standard Compliance	HDMI 1.3, EIA/CEA-861D, DVI 1.0, HDCP 1.1
HDMI Output Port	1
HDMI Input Ports	3
Signal Range	Up to 1080p@60Hz or 720p/1080i@120Hz with 12-bit color depth
Remote Control	Built-in IR Sensors: 2 External IR Sensor: optional RS-232C: optional
Power Supply	5V DC
Power Consumption	3 Watts (max)
Power Adapter	Input: ~ 100V – 240V, 50/60Hz AC Output: 5V DC, 800mA max Safety: UL Listed
Operating Temperature	5°C - 35°C 41°F - 95°F
Operating Humidity	15% - 75% No condensation
Dimension	7-3/8" x 4-1/2" x 1-1/16", 187mm x 116mm x 27mm
Weight	9oz or 0.25kg

OPPO Digital, Inc. Limited One Year Warranty

Your OPPO product has been manufactured to precise standards, and with rigid quality control through every process of manufacturing. It is warranted by OPPO DIGITAL, INC. against defective workmanship or materials for one (1) full year from the original date of purchase. This warranty applies only to OPPO brand products imported or manufactured by OPPO Digital, Inc. and sold to the original consumer purchaser in the U.S.A. or Canada by either OPPO Digital, Inc. or an OPPO authorized reseller. This warranty does not apply to OPPO brand products imported and sold by unauthorized dealers, distributors, or other sellers. This warranty does not apply to products purchased or shipped outside of the U.S.A. and Canada. OPPO Digital, Inc. may at its sole discretion, refuse to honor the warranty of any such unauthorized product that may be presented for service.

Warranty service can only be performed by OPPO Digital, Inc. or an OPPO authorized service center. The original dated bill of sale must be presented upon request as proof of purchase.

OPPO Digital, Inc. will, at its option and at no charge as stipulated herein, repair or replace product which is returned either in person or postpaid and insured to an OPPO service center, with new or reconditioned parts or products.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers noncommercial use of this product, and shall not apply to the following, including, but not limited to: applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; batteries and cable accessories; accidents, abuse, neglect, fire, water, lightning or other acts of nature; incorrect electrical line voltage, fluctuations and surges; failure to follow operating or maintenance instructions. OPPO Digital, Inc. does not warrant uninterrupted or error-free operation of the product. This limited warranty shall not extend to anyone other than the original purchaser of the product. It is nontransferable and states your exclusive remedy.

THE FOREGOING WARRANTY IS THE ONLY WARRANTY WITH RESPECT TO THE PRODUCT AND OPPO DIGITAL, INC. MAKES NO OTHER WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCT INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL OPPO DIGITAL, INC. OR ITS AUTHORIZED RESELLERS BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF SUCH DAMAGES RESULT FROM NEGLIGENCE OR OTHER FAULT.

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TO REGISTER YOUR PURCHASE FOR WARRANTY, please visit the following Web site:

<http://www.oppodigital.com/registration.asp>

TO OBTAIN WARRANTY SERVICE, please follow these instructions:

- Contact OPPO customer service via email at service@oppodigital.com or by phone at (650) 961-1118 with details of the defect claimed, product model, serial number, date and place of the original purchase.
- If it is determined that your product needs service, a Return Merchandise Authorization (RMA) number will be issued to you along with return instructions and address of an OPPO service center.
- Pack the product securely, preferably in the original packaging, with your assigned RMA number marked clearly on the outside of the package. Send the package postpaid and insured to the OPPO service center to obtain warranty service.

Thank you for choosing OPPO. Your satisfaction is our highest priority.

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