

Owner's Manual

MOON Evolution Series

HDS-8

Reference HDMI 1.3a Switcher



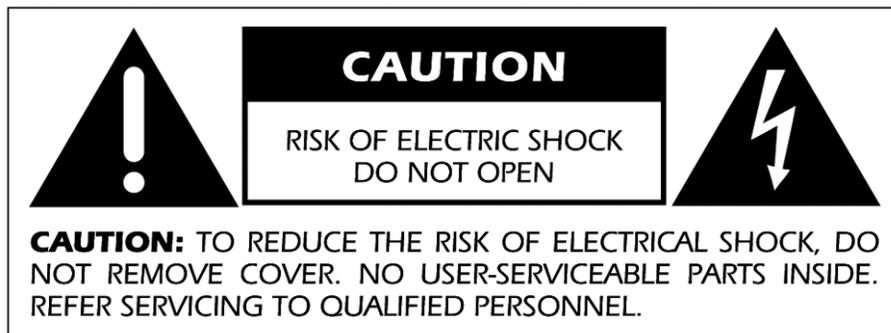
M O O N

MOON HDS-8 HDMI 1.3a Switcher

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 a dry cloth.
7. Do not block 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 another apparatus that produces 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 safety. If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments and 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 when the power cord or plug has been damaged; liquid has been spilled or objects have fallen into the apparatus; or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. No naked flame sources, such as candles, should be placed on the apparatus.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



MOON HDS-8 HDMI 1.3a Switcher

Important Safety Instructions (cont'd)



The lightning flash with the 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 operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community

Please read all instructions and precautions carefully and completely before operating your Simaudio MOON HDS-8 HDMI 1.3a Switcher.

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.
 2. The MOON HDS-8 must be terminated with a three-conductor AC mains power cord which includes a protective earthing connection. To prevent shock hazard, all three connections must **ALWAYS** be used. Connect the MOON HDS-8 only to an AC source of the proper voltage; Both the shipping box and rear panel serial number label will indicate the correct voltage. Use of any other voltage will likely damage the unit and void the warranty
 3. AC extension cords are **NOT** recommended for use with this product.
 4. **NEVER** use flammable or combustible chemicals for cleaning audio components.
 5. **NEVER** operate the MOON HDS-8 with any covers removed. There are no user-serviceable parts inside. An open unit, especially if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
 6. **NEVER** wet the inside of the MOON HDS-8 with any liquid. If a liquid substance does enter your MOON HDS-8, immediately disconnect it from the AC mains and take it to your MOON dealer for a full check-up.
 7. **NEVER** expose the MOON HDS-8 to dripping or splashing of liquids and no objects filled with liquids, such as vases, shall be placed on top.
 8. **NEVER** block air flow through ventilation slots or heatsinks.
 9. **NEVER** bypass any fuse.
 10. **NEVER** replace any fuse with a value or type other than those specified
 11. **NEVER** attempt to repair the MOON HDS-8. If a problem occurs contact your MOON dealer.
 12. **NEVER** expose the MOON HDS-8 to extremely high or low temperatures.
 13. **NEVER** operate the MOON HDS-8 in an explosive atmosphere.
 14. **ALWAYS** keep electrical equipment out of reach of children.
 15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.
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www.simaudio.com

**IMPORTANT: Please read this entire manual before using this product.
Installation and operating instructions inside.**

MOON HDS-8 HDMI 1.3a Switcher

Congratulations!

Thank you for selecting the **MOON HDS-8 HDMI 1.3a Switcher** as a part of your Home-theater system. This HDMI switcher has been designed to offer state-of-the-art high-end performance in an elegant package, while retaining all the hallmarks on which Simaudio has made its reputation. We have spared no effort to ensure that it is among the finest HDMI switchers available. We have been building high-performance audio equipment for almost 30 years, and the know-how gained through our cumulative experience is an important reason why **MOON** products are so satisfying.

The **HDS-8** is intended as a companion component for the **MOON CP-8** Reference Surround Preamplifier/Processor. Consequently, any discussions concerning remote control operations requires the WRM-2 remote control unit which is sold **ONLY** with the **MOON CP-8**.

The performance of your **HDS-8** will continue to improve during the first 150 hours of use. This is the result of a “break-in” period required for the numerous high quality electronic parts used throughout this HDMI switcher.

Before setting up your new **MOON HDS-8**, we encourage you to please read this manual thoroughly to properly acquaint yourself with its features. We hope you enjoy using the **MOON HDS-8 HDMI 1.3a Switcher** as much as the pride we have taken in creating this fine audio/video product. We understand the power and emotion of music & film, and build our products with the goal of faithfully capturing these elusive qualities.

Unpacking

The **MOON HDS-8 HDMI 1.3a Switcher** is a large and heavy component that should be removed from its box with care. The following accessories should be included inside the box:

- ✓ *AC Power Cord*
- ✓ *HDMI Cable*
- ✓ *This owner's manual*
- ✓ *Warranty and product registration information (USA and Canada only)*

As soon as the HDMI switcher is safely removed from its box and placed down, perform a thorough physical inspection and report any damage to your dealer immediately. We suggest that you keep all of the original packaging, storing it in a safe, dry place in the event that you're required to transport the HDMI switcher. The customized packaging is specially designed to protect the **MOON HDS-8** HDMI 1.3 Switcher from potential damage that may occur during shipping.

Please write the serial number of your new Simaudio **MOON HDS-8** in the space provided below for future reference.

Serial No.: _____

MOON HDS-8 HDMI 1.3a Switcher

Introduction

Your **MOON HDS-8** HDMI Switcher incorporates many significant design features to achieve its “world class” level of performance. This is an abbreviated list of the more important features:

HDMI 1.3a

Supports **all** available interlaced and progressive scan **video resolutions**

Backward compatible with **DVI-D** input signal format

Deep Color support

Full 6.75 Gbps data transfer rate

Auto-Detect for HDMI input sources

RS-232 port for full custom external control

12 Volt trigger input & output for remote operation.

Installation & Placement

The **MOON HDS-8 HDMI 1.3a Switcher** should be placed within a distance of all components that you will be connecting to it that respects a maximum cable distance of 50 feet. HDMI cables exceeding this length may compromise both audio and video performance, as well as cause instability to the High-bandwidth Digital Content Protection (HDCP) signal.

You should never place another component directly on top of the **HDS-8** or place the **HDS-8** directly on top of another component. As well, the switcher should be placed on a solid level surface. You should avoid placing it near a heat source or inside a closed cabinet that is not well ventilated as this could compromise performance and reliability. The **HDS-8** uses a transformer in its power supply; even though it is well shielded, you should not place this HDMI switcher too close to source components sensitive to EMI, such as turntables and phono preamplifiers.

MOON HDS-8 HDMI 1.3a Switcher

Front Panel Controls



Figure 1: MOON HDS-8 Front panel

The front panel will look similar to Figure 1 (above).

The “Standby” button places the HDS-8 into or out of operation. When operational, the blue pilot LED will illuminate. The input button allows you to sequentially select from one of the five HDMI inputs. Each HDMI input has an associated red LED that will illuminate when that particular input has been selected. Finally, directly below the 3rd HDMI pilot LED is the infra-red remote sensor.

Rear Panel Connections



Figure 2: MOON HDS-8 Rear panel

The rear panel will look similar to Figure 2 (above).

There is one HDMI output labelled “HDMI OUT” and five HDMI inputs, labled ‘1’ through ‘5’’. To the right of the HDMI inputs, there is an RS-232 port for full-function bi-directional control and status intended for custom integration or automation type applications. As well, there is a 12V trigger input/output on 1/8” mini-jacks. Finally, on the far right is the “AC Power” section with a main power switch (“0”=off, “1”=on) and the IEC receptacle for the included AC power cord.

MOON HDS-8 HDMI 1.3a Switcher

Connecting the HDS-8

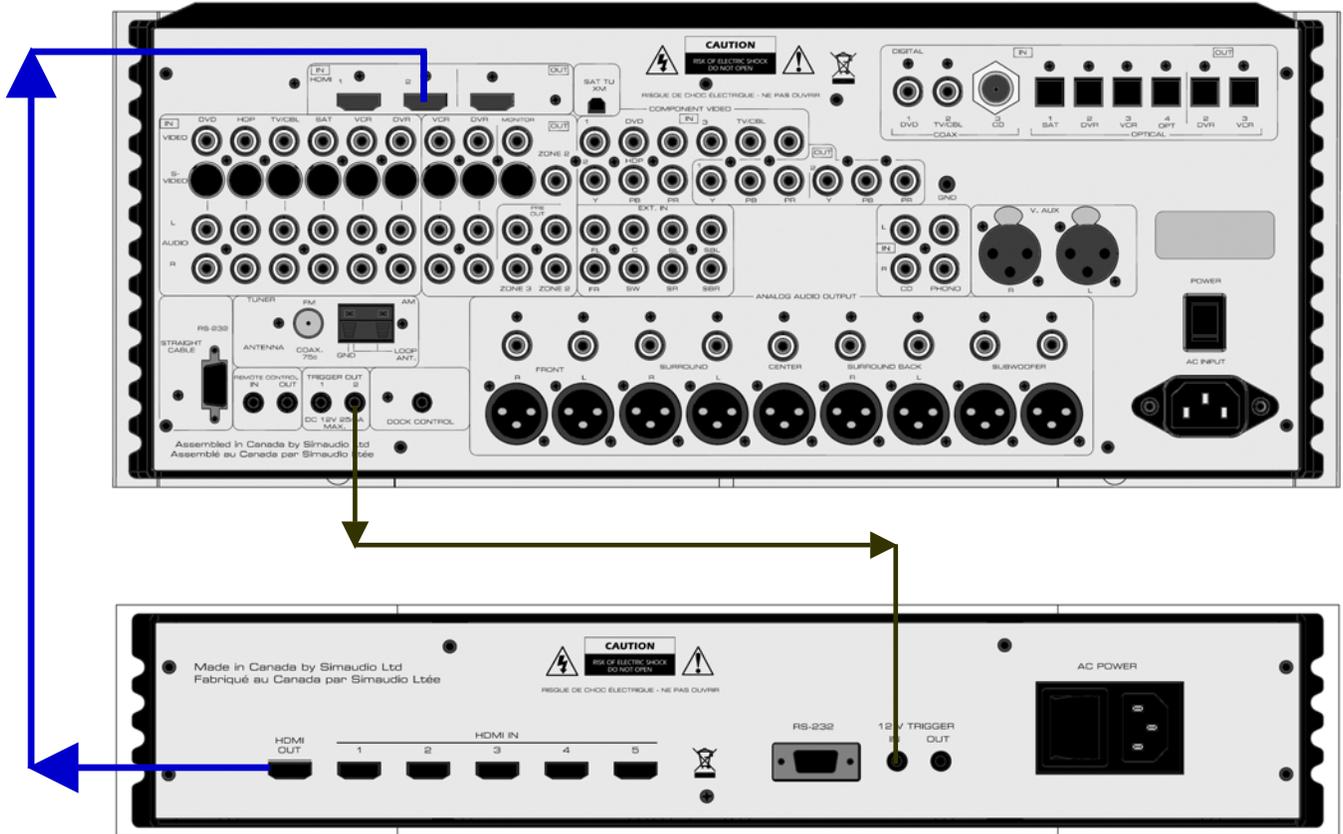


Figure 3: Connecting the MOON HDS-8 and the MOON CP-8

1. The **MOON HDS-8** is intended for use with the **MOON CP-8** Reference Surround Preamp/Processor. Consequently, this section will describe the recommended connection scenario with the **CP-8**. However, you may use your **HDS-8** with another Surround Preamp/Processor in a similar manner.
2. Connect your HDMI audio/video source components to the 'HDMI IN' connectors '1' through '5'.
3. Then connect the "HDMI OUT" on the **HDS-8** to either the 'HDMI IN 1' or 'HDMI IN 2' on the **CP-8**'s rear panel. We recommend using the **CP-8**'s HDMI input labelled 'HDMI IN 2' and connecting a DVD player to the 'HDMI IN 1' input as per factory default settings.
4. Connect the **HDS-8**'s 12V trigger input to one of the **CP-8**'s 12V trigger outputs.
5. Connect the supplied AC power cable to the IEC receptacle, located on the switcher's rear panel. Ensure that the AC wall outlet you use has a functioning ground. For the best sonic performance, it is preferable that you plug your **HDS-8** directly into a dedicated AC outlet and avoid using an extension cord.
6. In order to obtain the maximum performance from your Home-theater system, we strongly recommend that the detachable power cord not come into physical contact with any of the HDMI cables running to and from your **HDS-8**.

MOON HDS-8 HDMI 1.3a Switcher

Operating the HDS-8

Turning on your MOON HDS-8 for the first time:

Prior to turning the **HDS-8** on for the first time, make sure that all cables are properly connected to avoid any problems. To power up your **HDS-8**, flick the main rocker switch labeled "MAIN POWER", located on the rear panel, to the '1' (on) position.

When the HDS-8 12V trigger input is connected to the CP-8:

Place the **MOON CP-8** into operational mode by pressing the button labelled "Standby" on its front panel. The **HDS-8** will automatically become operational at the same time as a result of the 12V trigger connection. The blue LED on the front panel will illuminate indicating that the **HDS-8** is ready for use. Pressing the **MOON CP-8's** "Standby" button again will place it into "Standby" mode and will effectively place the **HDS-8** back into "Standby" mode at the same time.

Note: The **HDS-8's** "Standby" button will be defeated and will not affect operation when the 12V trigger input is in use.

When the 12V trigger input not connected:

Press the button labeled "Standby" located on the front panel of the **HDS-8**. The blue LED on the front panel will illuminate indicating that the **HDS-8** is powered up and ready for use.

Input Selection:

Press the button labelled "Input" located on the front panel of the **HDS-8** to sequentially scroll through the five (5) available HDMI inputs to select a source component that is connected to the **HDS-8**. When a source is found, the corresponding red LED on the front panel will illuminate, indicating an active connection. In the event that the connected source component is powered off, the RED led will not illuminate. ONLY those inputs that have a powered up source connected to them can be scrolled; for example, if you have made connections to HDMI inputs 1, 3 and 5 then you can only scroll through these three (3) inputs – HDMI inputs 2 and 4 will automatically be skipped.

Auto-Detect Mode:

By default, the **HDS-8** operates in "Auto-Detect" mode whereby the following will scenarios occur:

When only one (1) HDMI source is connected to the **HDS-8**, it will automatically be selected when the **HDS-8** becomes operational, provided that the source component is powered up.

When more than one (1) HDMI source is connected to the **HDS-8**, the last source that was used will automatically be selected

To disable the "Auto-Detect" mode, press and hold the 'Input" button for two (2) seconds; the blue LED will briefly flash. To re-enable the "Auto-Detect" mode, the **HDS-8** must be placed briefly into "Standby" mode; Whenever the **HDS-8** is placed into "Standby" mode, "Auto-Detect" will be activated the next time it becomes operational

MOON HDS-8 HDMI 1.3a Switcher

Remote Control Operation

You can scroll through the **HDS-8's** HDMI inputs using the WRM-2 remote control that is supplied with the **MOON CP-8**. This is the only available function for the **HDS-8** via the remote control. Press the button labelled "Input" to sequentially scroll through the five (5) available HDMI inputs.

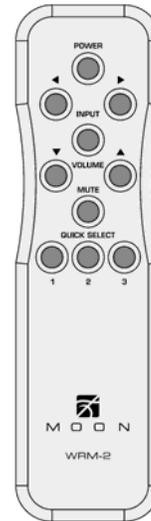


Figure 4: WRM-2 Remote Control

Specifications

HDMI Inputs	5
HDMI Outputs	1
Supported Video Resolutions	480i, 480p, 720i, 720p, 1080i & 1080p
Power Consumption @ idle	5 Watts
AC Power Requirements	120V / 60Hz or 240V / 50Hz
Weight.....	22 lbs / 10 Kgs
Dimensions (W x H x D, inches)	17.4 x 4.1 x 15.8

12 Volt Trigger:	Logic	Direct (0V off, 12V on)
	Connector	1/8" mini-jack
	Input Impedance	1kΩ
	Current Consumption.....	12mA

NOTE: In the event that you require the RS-232 codes for your **MOON HDS-8**, please contact Simaudio Ltd. directly by either email (service@simaudio.com) or toll-free telephone (877-980-2400).



Fuse Replacement: 120V - 0.2A Short Fast blow (5 x 20mm size).
 230V - 0.1A Short Fast blow (5 x 20mm size).