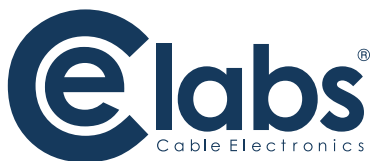


INSTRUCTION MANUAL



HA82-3

HDMI™ Dual Input Distribution Amplifier



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Safety and Notice

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 product heat.
9. Do not defeat the 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 plugs, convenience receptacles, and the point where the exit from the apparatus.
11. Only use the 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.



Figure 17 DU- Portable cart warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

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INSTALLATION

1. Turn off the devices to be connected together.
2. Connect the HDMI cable between the source (DVD, Satellite Receiver, etc.) and the "HDMI In" port of the Distribution Amplifier.
3. Connect the HDMI cables from the outputs of the distribution amplifier to the inputs of the monitors.
4. Power up the Distribution Amplifier and the Monitor connected to HDMI output number one on the amplifier. Leave the other monitors off for now.
5. Turn on power to the source device. The monitor connected to output number one should have picture and sound within about 5 seconds.
6. Turn on power to the remaining monitors.
7. Install cable ties on the Cable Retention Brackets if desired to prevent accidental unplugging of the HDMI cables.

NOTES:

- All monitors connected to the distribution amplifier should be capable of the same resolution.
- Always connect the first monitor to output number one on the Distribution Amplifier first. This is necessary for the Electronic ID to be read properly by the source.
- For optimum performance, try to use HDMI cables no longer than 5 meters in length.

Features

- Dual HDMI inputs selectable from control port
- Integrated HCRS (HDMI Cable Retention System). Prevents accidental disconnects and service calls.
- Panellink digital technology
- HDMI V1.3 Compatible
- Supports HD resolutions 480i, 480p, 720p, 1080i & 1080p
- Cascadable for very large display wall systems
- Heavy duty metal housing. Commercial duty rated
- Can be ordered with a GPIO or RS-232 Control Port

Specifications

Inputs:	2
Outputs:	8
Max Video Resolution:	1080P/Deep Color
Power:	5VDC, 4A
Housing:	Commercial Gade with Cable Retention Bracket
3D Compatible:	Yes
Weight:	3.7 lbs.
Dimensions:	15" x 6.8" x 1.5"
Mount Dimensions:	14.55" x 3.2"
LEDs:	2x IN • 2x OUT • Power

CONTROL PORTS

The HA82-3 can be ordered with a GPIO or RS-232 Control Port.

GPIO

The **GPIO** version defaults to Input #2 when no cable is attached (internal pull-up resistor to 3.3V). When the SIGNAL line is sent logic 0 or shorted to ground with a switch, the HA82-3 input is switched to Input #1. It will remain there until the low signal is removed. It does not latch.

Connector: 3.5mm female

Pin out: Tip- No Connection • Ring- Control Signal • Sleeve- Ground

RS-232

Connector: 3.5mm female

Pin out: Tip- TXD (OUT) • Ring- RXD (IN) • Sleeve- Ground

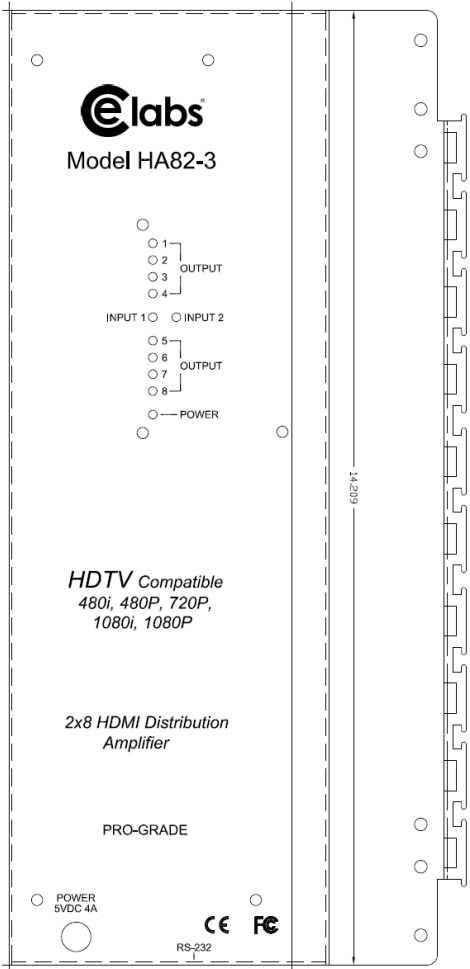
Protocol: 9600, 8, n, 1

Switch Video	Command Code					Description
All Outputs:	20	01	00	00	DB	All Outputs disconnect
	20	01	00	01	85	All Outputs select Input 1
	20	01	00	02	67	All Outputs select Input 2

Switching Inputs

Depending upon your application, connect the RS-232 cable or GPIO cable to the control device.

If a toggle switch is used, it should be wired for CLOSED selects input ONE & OPEN selects input TWO.



WARRANTY

CE labs® warrants the HA82-3, HDMI™ Dual Input Distribution Amplifier, to be free from defects in the material and workmanship for 1 year from the date of purchase from CE labs® or an authorized dealer. Should this product fail to be in good working order within the 1 year warranty period, CE labs®, at their option, will repair or replace the unit, provided that the unit has not been subjected to accidental damage, disaster, static discharge and power surge, abuse or any unauthorized modifications. This warranty is offered by CE labs® for its BUYER with direct transaction only. **This warranty is void if the warranty seal on the metal housing is broken.**

A unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a Return Authorization Number (RMA #).

This warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty, or suitability, or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside USA are responsible for shipping charges to and from CE labs® **Cables** and **power adapters** are limited to a **30 day warranty** and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, CE labs® assumes no responsibility for any inaccuracies that may be contained in this manual. CE labs® will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the HA82-3 features and specifications is subject to change without further notice.

CE labs
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Garland, TX 75041
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(800) 767-6189
Fax: (469) 429-9205

INSTALLER NOTES

Purchasing Date:

S/N:

CE labs can support many areas of your audio and video distribution needs.

We manufacture:

- Digital Signage software and Media Players
- HD Matrix Switchers
- RF amplifiers
- HDMI and Component HD distribution amplifiers
- CAT 5 Signal Extenders
- VGA Extenders and Splitters
- and cables of all types.

See our full product line at www.celabs.net

WARRANTY

Cable Electronics, Inc. warrants this product to be free from defects in material and workmanship, under normal use and service, for a period of one year from the purchase by the original purchaser. If this product is defective or malfunctions, Cable Electronics will replace or repair this unit (at their option) within a reasonable time. No expressed or implied warranty is made for any defects caused by immersion or exposure to liquids, abuse, neglect, improper operation of unit, excess wear and tear and defects resulting from unauthorized disassembly and or modification.



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