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- HD Matrix Switchers
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- RF amplifiers
- HDMI and Component HD distribution amplifiers
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- and cables of all types.

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**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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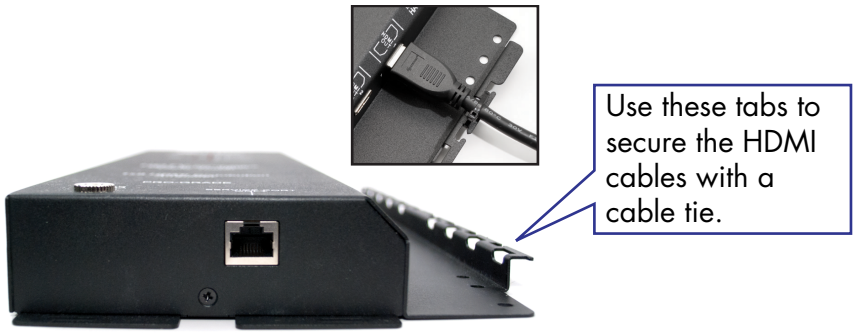
INSTRUCTION MANUAL

# HA8-4K

## Ultra High Definition HDMI Distribution Amplifier

- Silicon Image® IC's for maximum performance & compatibility
- HDMI, HDCP, and DVI compatible
- Supports video resolutions up to 4Kx2K @ 60 Hz, 4:2:0 pixel, 1080p @ 60 Hz, 12-bit or 720p/1080i @ 120Hz, 12-bit
- AVI, Audio InfoFrame, and video input resolution detection
- Hardware-based HDCP error detection and recovery minimizes firmware intervention
- Automatic output mute and unmute based on link stability, such as cable connect/detach
- Integrated EDID in non-volatile memory and DDC support for the HDMI ports using 256-byte SRAM for the HDMI ports
- Consumer Electronics Control (CEC) interfaces with HDMI-compliant CEC I/O
- Supports PCM and compressed audio formats up to 192 kHz (Dolby Digital, DTS, and AC-3)
- Supports all the mandatory and optional 3D formats up to 300 MHz
- Repeater function supports up to 127 devices
- Cascadable for retail video wall displays
- Integrated Cable retention bracket (CE labs® patented)

| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | TMDS Data 2+ | 11 | TMDS Clock Shield |
| 2 | TMDS Data 2 Shield | 12 | TMDS Clock - |
| 3 | TMDS Data 2- | 13 | CEC |
| 4 | TMDS Data 1+ | 14 | Reserved (N.C ) |
| 5 | TMDS Data 1 Shield | 15 | SCL |
| 6 | TMDS Data 1- | 16 | SDA |
| 7 | TMDS Data 0+ | 17 | DDC/CEC Ground |
| 8 | TMDS Data 0 Shield | 18 | +5 Power |
| 9 | TMDS Data 0- | 19 | Hot Plug Detect |
| 10 | TMDS Clock+ | | |




**Note**: The RJ-45 jack is for service only. This unit does not support Ethernet or ARC.

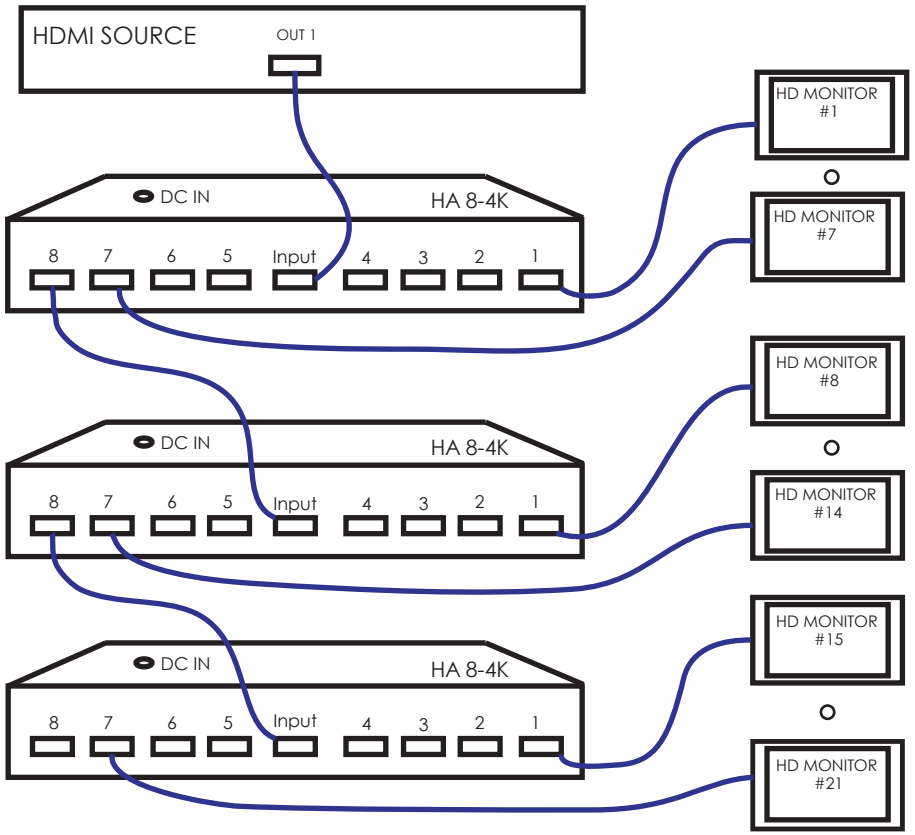
## INSTALLATION/OPERATION INSTRUCTIONS

1. Turn off the devices to be connected together.
2. Connect the HDMI cable between the source (DVD, Satellite Receiver, etc.) and the "HDMI Input" 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 a cable tie around the HDMI cable and chassis tab if desired to prevent accidental unplugging of the HDMI cables. See picture above.

NOTES: 1. All monitors connected to the distribution amplifier should be capable of the same resolution.
2. 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.
3. For optimum performance, try to use HDMI cables no longer than 5 meters in length.

## HDMI Distribution Amplifiers Cascade Configuration

HA8-4K Units may be cascaded 6 layers deep.




## SPECIFICATIONS

| | |
|---|---|
| Model | HA8-4K |
| INPUT HDMI Connector (A-Type Female) | 1 |
| OUTPUT HDMI Connector (A-Type Female) | 8 |
| Max Resolution | 4Kx2K @ 60 Hz, 4:2:0 pixel |
| Cable Distance | 6m (Max.) |
| Signal Type | HDMI V1.4 Compliant DC |
| Power Adapter (Min.) | DC 5V 4A |
| Housing | Metal |
| Weight | (3.5 lbs.) 1.6 Kg |
| Dimensions (LxWxH) | 15" x 6.8" x 1.5" |
| Deep Color (1080p) | 12 bit |
| Full 3D Support | |