# HDMI Distribution Amplifier

AVLINK™

**(HS-1512PW)**
**1 In 2 Out**

**(HS-1514PW)**
**1 In 4 Out**

**(HS-1518PW)**
**1 In 8 Out**

# USER MANUAL V1.1

# HS-1512PW/HS-1514PW /HS-1518PW



## Package Contents-

- 1x AVLINK HS-1512PW or HS-1514PW or HS-1518PW HDMI Distribution Amplifier
- 1x User Manual
- 1x Power Adapter DC 12V
- AC POWER cord (only HS-1518PW)
- 2x Screws
- 4x Foot Pads

Anything missed, please contact with your vendor.

# Introduction

Through the HDMI Distribution Amplifier, you can use one HDMI source such as DVD player to display / broadcast the identical image up to 8 projectors or HDTVs through HDMI ports.

HDMI Distribution Amplifier is ideal for:

- Test Bench Facilities
- Data Centers
- Help Desks

# Features

- Supports 3D
- HDCP2.2/HDCP1.4 Compliant
- Compliant with the specification of HDMI
- Support high-resolution display up to 4Kx2K@60Hz(YCbCr 4:2:0 8/10/12/16-bit other 8-bit )
- EDID copy from OUT 1
- Cascade able to satisfy the demanded ports

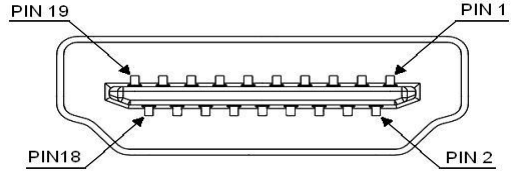
# Specifications

| Function | HS-1512PW | HS-1514PW | HS-1518PW |
|---|---|---|---|
| HDMI Input Connector (A-Type Female) | 1 | | |
| HDMI Output Connector (A-Type Female) | 2 | 4 | 8 |
| Max. Resolution | 4x2K@60Hz | | |
| Cable Distance (Device to Monitor) | 10 m (Max.) | | |
| Signal Type | Standard HDMI Signal | | |
| Power Adapter (Min.) | DC 12V/1.25A | | DC12V/5A |
| Housing | Metal | | |
| Weight | 280g | 476g | 700g |
| Dimensions (LxWxH) | 150x80x25 mm | 171x120x25 mm | 240x120x25 mm |



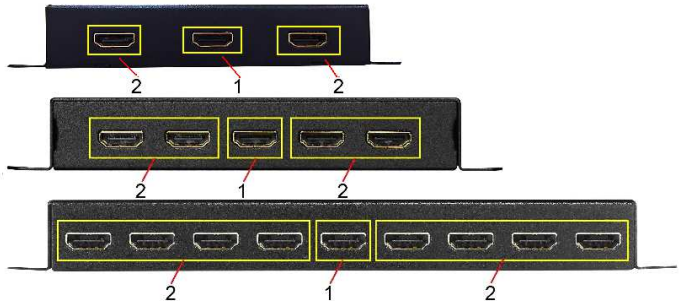
## Technical Specifications

### Input/Output Signal



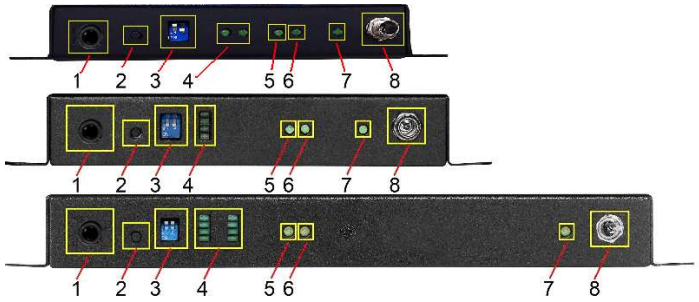

| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | TMDS Data 2+ | 11 | TMDS Clock Shield |
| 2 | TMDS Data 2 Shield | 12 | TMDS Clock - |
| 3 | TMDS Data 2- | 13 | CEC |
| 4 | TMDS Data 1+ | 14 | Reserved (N.C. on device) |
| 5 | TMDS Data 1 Shield | 15 | SCL |
| 6 | TMDS Data 1- | 16 | SDA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

### FRONT VIEW




1. “HDMI In” Port
2. “HDMI Out” Port

### REAR VIEW



1. F/W Upgrade
2. Reset
3. Mode(must reset)

| 1 | 2 | Mode |
|---|---|---|
| OFF | OFF | 1080P |
| OFF | ON | Copy Out1 |
| ON | OFF | Reserved |
| ON | ON | 4K x 2K |

4. 1~2/1~4/1~8 Out port LED
5. HDCP LED
6. HDMI In LED
7. Power LED
8. DC 12V Input

# Installation

1. Turn off the HDMI source and HDMI displays.
2. Connect the HDMI male extension cable between the HDMI source and the “HDMI In” port of Distribution Amplifier.
3. Connect the HDMI male/female extension cables between the displays and the “HDMI Out” ports of Distribution Amplifier.
4. Connect the power cord and turn on the Distribution Amplifier.
5. Turn on the HDMI source and HDMI displays.

**Note:**

- Have to set ALL displays with the same resolution.
- We suggest the user connects the display from “HDMI Out 1” first because the Distribution Amplifier will simulate the EDID from “HDMI Out 1”.
- We suggest the user connects the HDMI source to the Distribution Amplifier via1.8M cable for the better video quality.

# Operation for cascade:

1. The function to display identical image on more displays, you have to attach another Distribution Amplifier.
2. Connect the HDMI male/female extension cable between the “HDMI Out 1” port of 1st level Distribution Amplifier and the “HDMI In” port of 2nd level Distribution Amplifier.



**Note:**
Even though you are allowed to cascade more Distribution Amplifiers to satisfy demanded ports, the image might become unstable if cascade too many levels of Distribution Amplifiers.

P.S.: The example of cascading the 2/4 and 8 ports Distribution Amplifier. Better yet, you can cascade more Distribution Amplifiers to satisfy demanded ports.

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