



## HDSpider™ Cat.5 Cascadable HDMI Sender



HVE-9003

H/W Version: 2

### What is HDMI?

The High-Definition Multimedia Interface (HDMI) is a revolutionary technology that allows viewers to experience the highest quality digital images available. It is able to deliver top-quality video as well as audio over a single cable.

This growing technology is great for displays in many different situations: movie theatres, concert halls, public transportation, malls, shops, airports, schools, etc.

### Is HDMI 1.3 backward compatible with prior releases of the HDMI and DVI spec.?

HDMI 1.3 supports the demands of future high definition display devices, such as higher resolutions, high frame rates and Deep Color. Fully backward compatible with all prior releases of the HDMI spec, as well as DVI compliant devices.

### What Products or applications will take advantage of new HDMI 1.3 capabilities?

New high-definition DVD formats (HD-DVD and Blu-

Ray) and game machines (PS3 and X-Box) will make use of capabilities added in HDMI 1.3. Digital television will be able to present images that are closer to real life than previously has been possible.

### Introducing the HDSpider™ Series from LevelOne

The HDSpider™ Series is a collection of HDMI Cat.5 senders and receivers, offering a full range of HDMI extender solutions. Choose from our 7 different HDSpider extenders to build a flexible network to send your high-quality HDMI signals to greater distances, and at a reduced cost.

### What does a Cat.5 receiver do?

This compact and simple to use device is deployed on the receiving end, where the HD monitor is located. Using Cat.5 cable to send the HDMI signal is the best way to reach extended distances and HVE-9000 also has a built-in equalization knob to help you fine tune your HD network.

To see this device in action, please see the diagram below.



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1. Power LED
2. Input Video Indicator
3. Rotary Switch
4. RJ-45 Input Port
5. 3.5mm Audio Socket
6. HDMI Output Port
7. RJ-45 Output Port
8. Power Jack

### Key Features

- Works with Cat.5, Cat.5e, Cat.6 Ethernet cable
- Transmission Distance of up to 60m for 1080i or 40m for 1080p
- Minimize the cable skew using 8-level adjustable equalization knob
- Provides Higher speed - 6.75Gbps
- HDMI deep color enables display with more natural and vivid colors
- HDMI 1.3c compliance(Full 3D support)

### Works Well With



**HVE-9001**  
HDSpider™ Cat.5 HDMI Sender



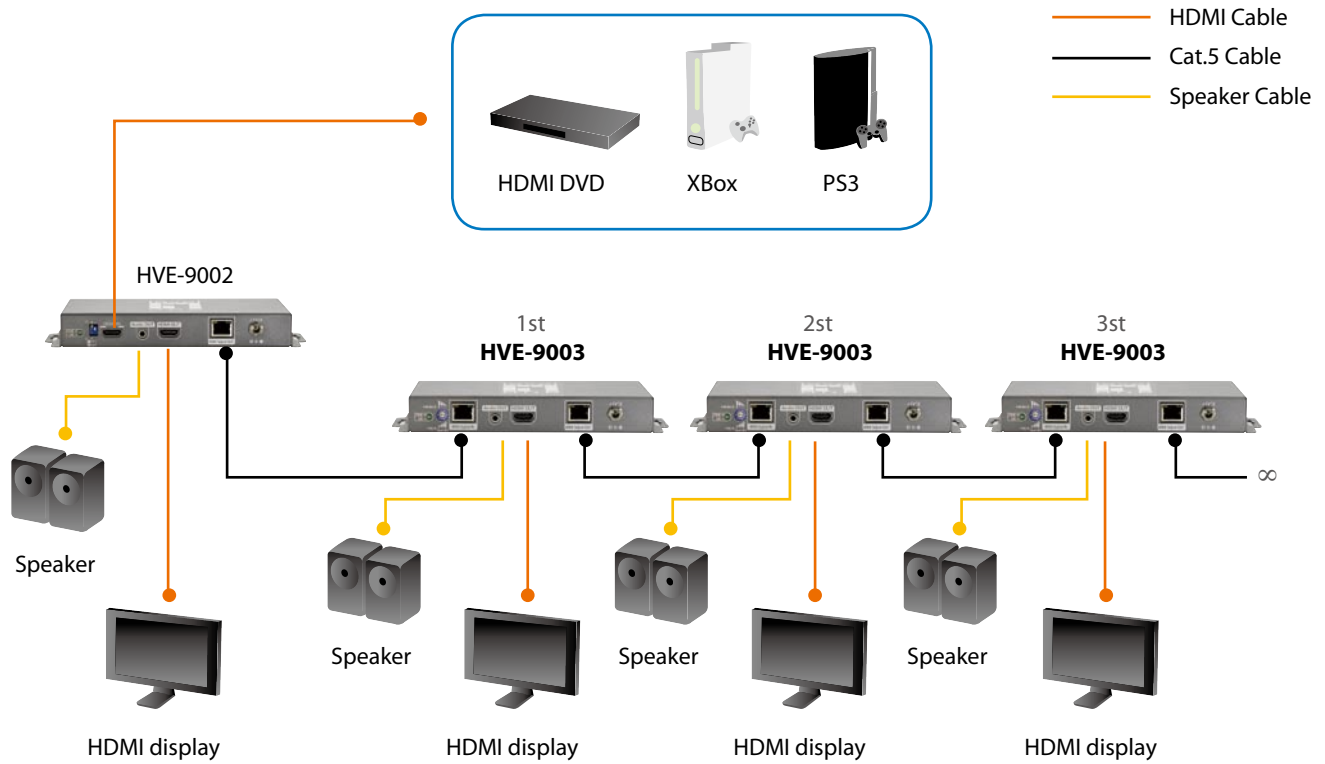
**HVE-9002**  
HDSpider™ Cat.5 HDMI Sender  
with Local HDMI Output



## Technical Specifications

| Type                   | HDMI Transmitter                                                                  |                                                          |                                                                                  | HDMI Receiver                               |                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.              | HVE-9001                                                                          | HVE-9002                                                 | HVE-9003                                                                         | HVE-9000                                    | HVE-9900                                                                                                                                                                        |
| Product Name           | HDSpider™ Cat.5<br>HDMI Sender                                                    | HDSpider™ Cat.5 HDMI<br>Sender with<br>Local HDMI Output | HDSpider™ Cat.5<br>Cascadable HDMI Sender                                        | HDSpider™ Long Range<br>Cat.5 HDMI Receiver | HDSpider™ Cat.5 HDMI<br>Short Range Receiver                                                                                                                                    |
| HDMI Compliance        | HDMI 1.3c (Full 3D support)                                                       |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| HDCP Compliance        | Yes                                                                               |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| Video bandwidth        | Single-link 225MHz (6.75Gbps)                                                     |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| RJ-45 Input            | -                                                                                 | -                                                        | 1                                                                                | 1                                           | 1                                                                                                                                                                               |
| RJ-45 Output           | 1                                                                                 | 1                                                        | 1                                                                                | -                                           | -                                                                                                                                                                               |
| HDMI Input             | 1                                                                                 | 1                                                        | -                                                                                | -                                           | -                                                                                                                                                                               |
| HDMI Output            | -                                                                                 | 1                                                        | 1                                                                                | 1                                           | 1                                                                                                                                                                               |
| Max Resolution         | Full HD (1080p)-40m (130ft) thru Cat.5e<br>HD (720p/1080i)-50m (165ft)thru Cat.5e |                                                          | Full HD (1080p)-50m (165ft) thru Cat.6<br>HD (720p/1080i)-60m (200ft) thru Cat.6 |                                             | Full HD (1080p)-15m<br>(50ft) thru Cat.5e<br>Full HD (1080p)-18m<br>(65ft) thru Cat.6<br>HD (720p/1080i)-25m<br>(80ft) thru Cat.5e<br>HD (720p/1080i)-30m<br>(100ft) thru Cat.6 |
| Audio                  | 7.1-channel surround sound or stereo digital audio                                |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| DIP switch             | -                                                                                 | 2-pin DIP                                                | -                                                                                | -                                           | -                                                                                                                                                                               |
| Equalization           | 8-level digital control at RX                                                     |                                                          |                                                                                  |                                             | -                                                                                                                                                                               |
| Input TMDS signal      | .2 Volts (peak to peak)                                                           |                                                          |                                                                                  |                                             | -                                                                                                                                                                               |
| Input DDC signal       | 5 Volts (peak-to-peak, TTL)                                                       |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| Rotary control switch  | Mode                                                                              | None                                                     | Adjustable 8-level<br>signal equalization                                        | Signal level                                | -                                                                                                                                                                               |
| ESD protection         | 1. Human body model- ±15KV      2. Core chipset- ±2KV                             |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| Power supply           | DC5V/2Am                                                                          | 5VDC/4Am                                                 |                                                                                  | DC5V/2Am                                    | -                                                                                                                                                                               |
| Power Consumption      | 3 Watt (max)                                                                      |                                                          |                                                                                  | 1 Watt (max)                                | 0.5 Watt (max)                                                                                                                                                                  |
| Dimensions (L x W x H) | 93 x 90 x 25 mm                                                                   | 108 x 210 x 27 mm                                        |                                                                                  | 93 x 60 x 25 mm                             | 45 x 25 x 20 mm                                                                                                                                                                 |
| Rack-mount with ears   | Yes                                                                               | Yes                                                      |                                                                                  | Yes                                         | No                                                                                                                                                                              |
| Weight                 | 405g (0.89lbs)                                                                    | 525g (1.2lbs)                                            | 530g (1.2lbs)                                                                    | 405g (0.89lbs)                              | 180g (1.3lbs)                                                                                                                                                                   |
| Operating Temp.        | 0~40°C                                                                            |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| Storage Temp.          | -20~60°C                                                                          |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |
| Humidity               | 20~90% Non-Condensing                                                             |                                                          |                                                                                  |                                             |                                                                                                                                                                                 |

## Prodouct Diagram



## Order Information

### Package Contents

#### **HVE-9003:** HDSpider™ Cat.5 Cascadable HDMI Sender

HVE-9003 x 1  
Power Adapter x 1  
User Manual x 1