

# HDMI / Video Wall over IP Transmitter & Receiver

**IHD-200T / IHD-200R**



# Presentation Outline

- ◆ **Product Overview**
- ◆ **Product Benefits**
- ◆ **Product Features**
- ◆ **Applications**
- ◆ **Comparison**



**Video Wall**

**Video Extender**

**Digital Signage**

HDMI / Video Wall over IP

IHD-200T

IHD-200R x9

IHD-200R x9

▶▶ IHD-200 Series

# Product Overview

**Reset Button**

**HDMI Port**

**DC Jack**

**Ethernet Port**

**Network Status LED**

**Link / Power LED**

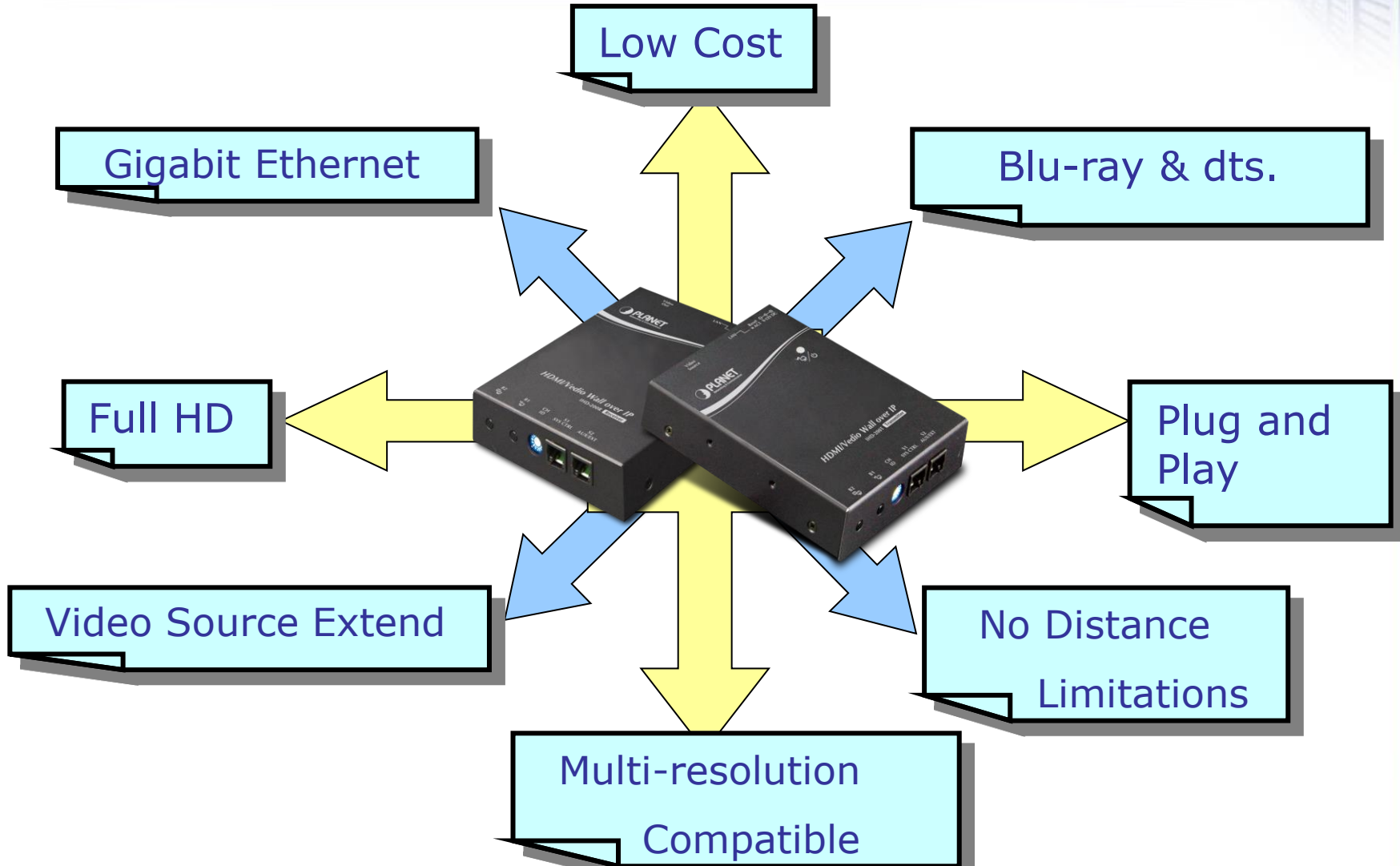
**AUX/EXT Port**

**16 DIP  
Channel Switch**

**Control Port**



# Product Benefits



# Product Features

## ◆ HDMI Network

- ✓ **1080P Ultra High Quality** Video transmitter
- ✓ Extend high definition video signal over **Gigabit LAN** and **IGMP**
- ✓ Assign video sources to **any monitors** of the video wall
- ✓ Up to **8x8 screen array** supported
- ✓ **16 selectable DIP switch** for multi-casting group matching easily
- ✓ **Point-to-Point, Point-to-Many & Many-to-Many** broadcasting architecture, adding more displays without adding LAN bandwidth loading

# Product Features

## ◆ Video Output Characteristics

- ✓ **HDCP**-compliant and **Blu-ray** read
- ✓ Support HDMI with dts (2ch. audio)
- ✓ HDTV compatible; support 1080P, 1080i, 720P, 720i
- ✓ Compatible with many screen resolution to XGA, SXGA, UXGA, WSXGA to the latest Full HD system

## ◆ Easy Installation & Management

- ✓ **Automatic EDID** (Extended display identification data) configuration
- ✓ Friendly Web UI and simple utility really easy to use
- ✓ Multi-Casting group with Gigabit Ethernet managed switch (required 802.1q VLAN & IGMP function) supported

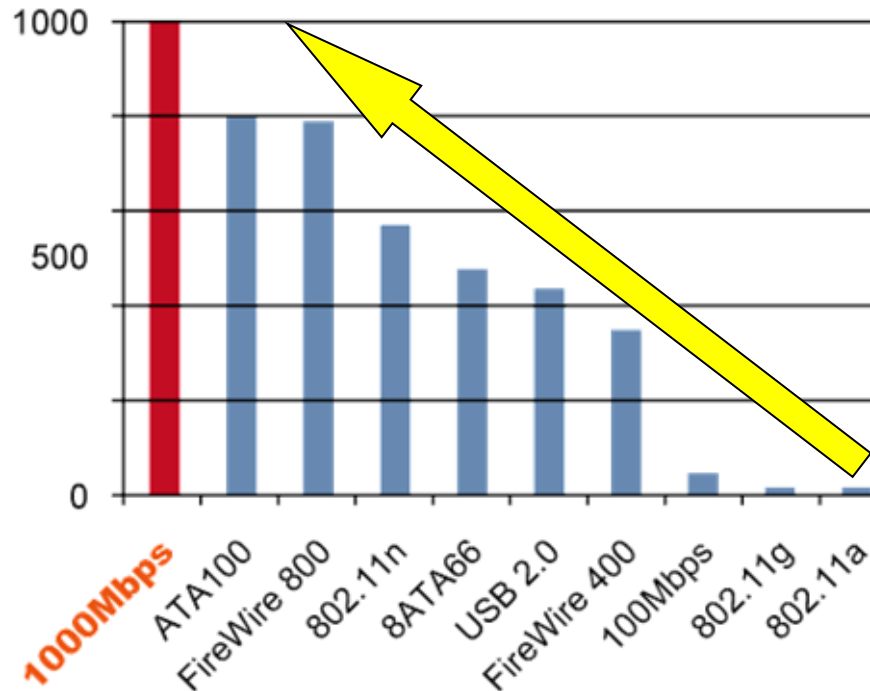


# Product Features

## High-Speed Ethernet Connection via Gigabit LAN

- ◆ Based on Gigabit LAN structure, it supports **super-high speed transmission**, via existing LAN system

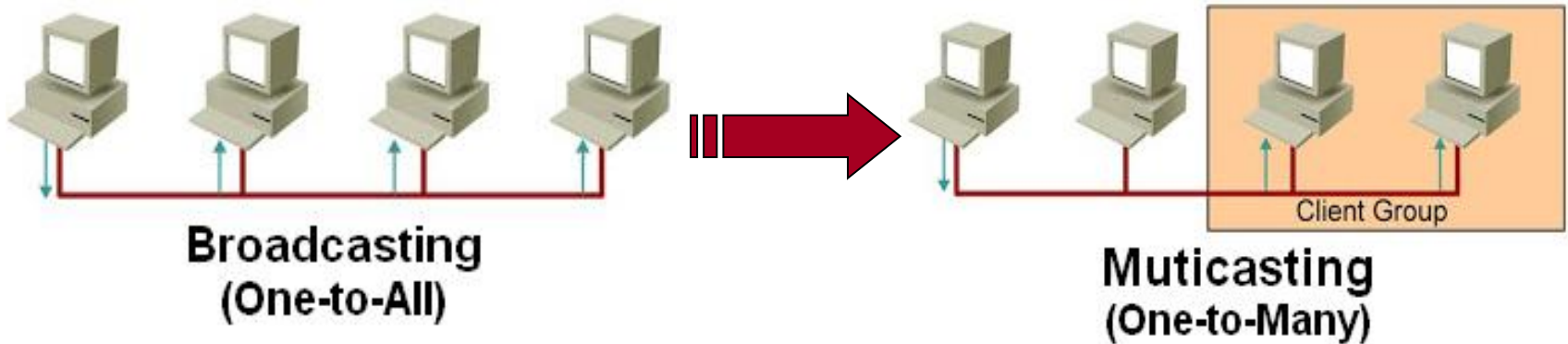
IHD-200 Series HDMI over IP Performance



# Product Features

## IGMP Multicast Technology

- ◆ Via IGMP Gigabit Switch, for each source device a local unit is required, and a remote unit is needed for each display device



**Bandwidth consumption** ↑

**Bandwidth consumption** ↓

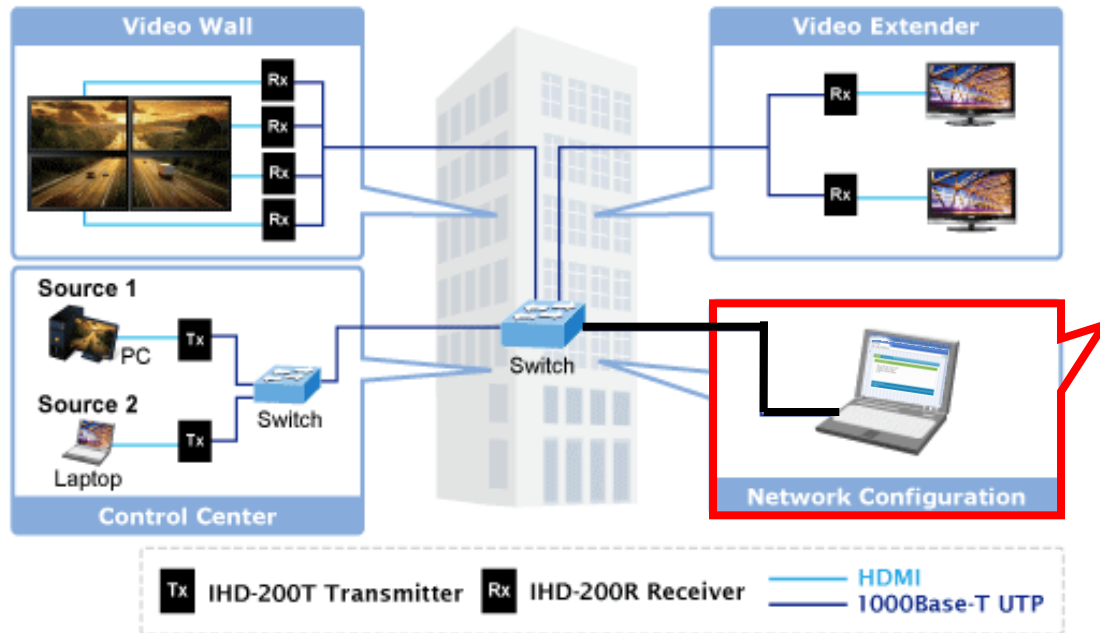
Application	Recommended Ethernet Hub
Video Wall Application	Gigabit Ethernet Switch with <b>IGMP &amp; Snooping</b> function
<b>Multiple</b> Video Wall Application	Gigabit Ethernet Switch with <b>IGMP, Snooping</b> function & <b>VLAN</b> function



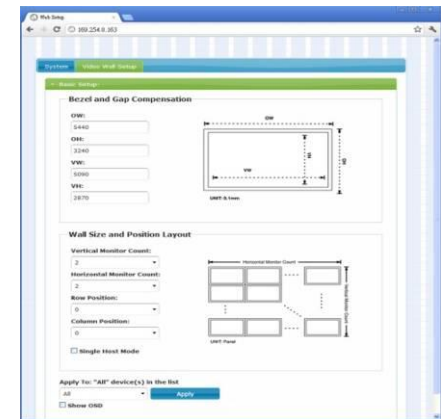
# Product Features

## Network Configuration

- ◆ By using computer to do network configuration, as long as over the same LAN (high quality switch recommended). Multi-casting can be done by **Managed Gigabit Switch** which provide control remotely and more video source / senders allowed



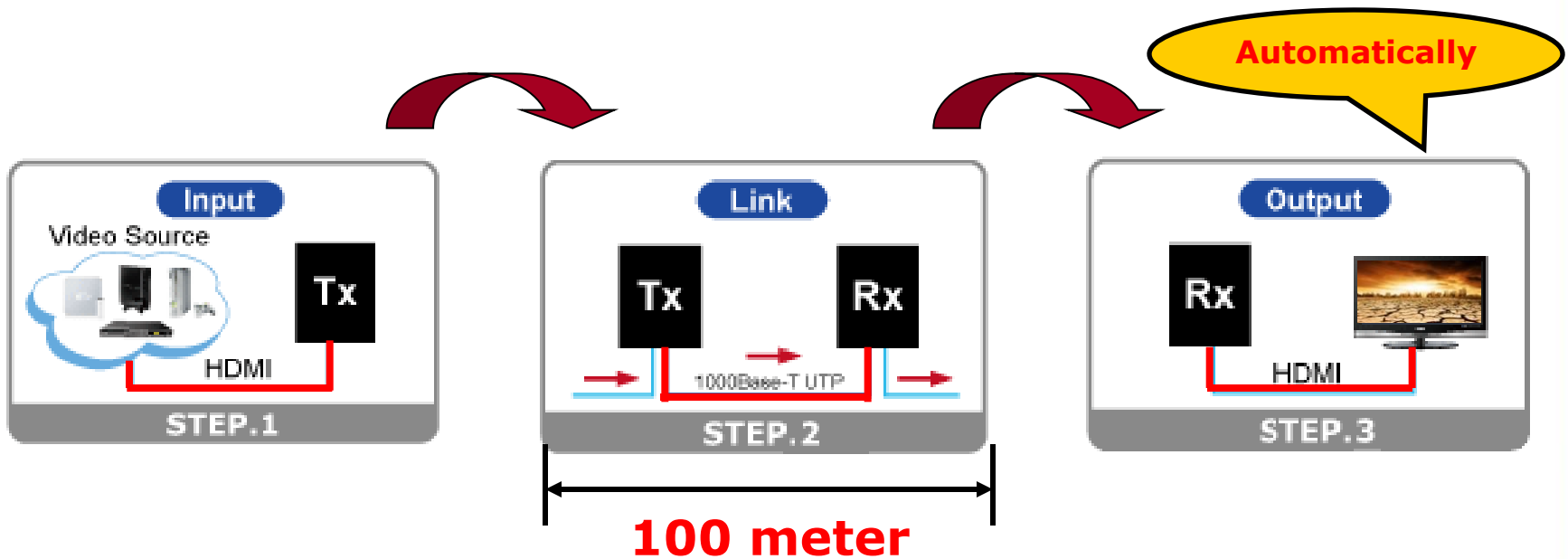
## Web UI Configuration



# Product Features

## Plug and Play

◆ IHD-200 Series support PnP (Plug and Play), if the installation is correct, the device will **connect other devices and search for source automatically**. Unless the Tx unit or Rx unit is disconnected

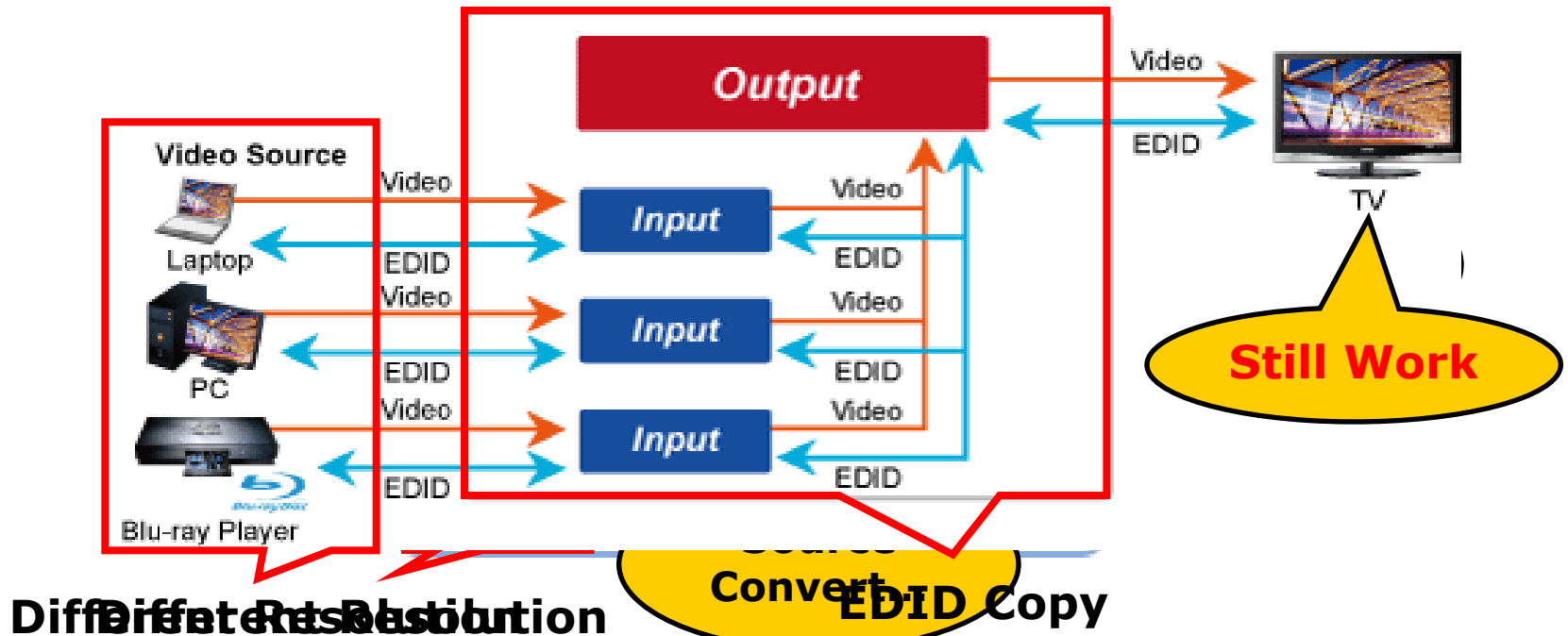


# Product Features

## Supports EDID (Extended Display Identification Data)

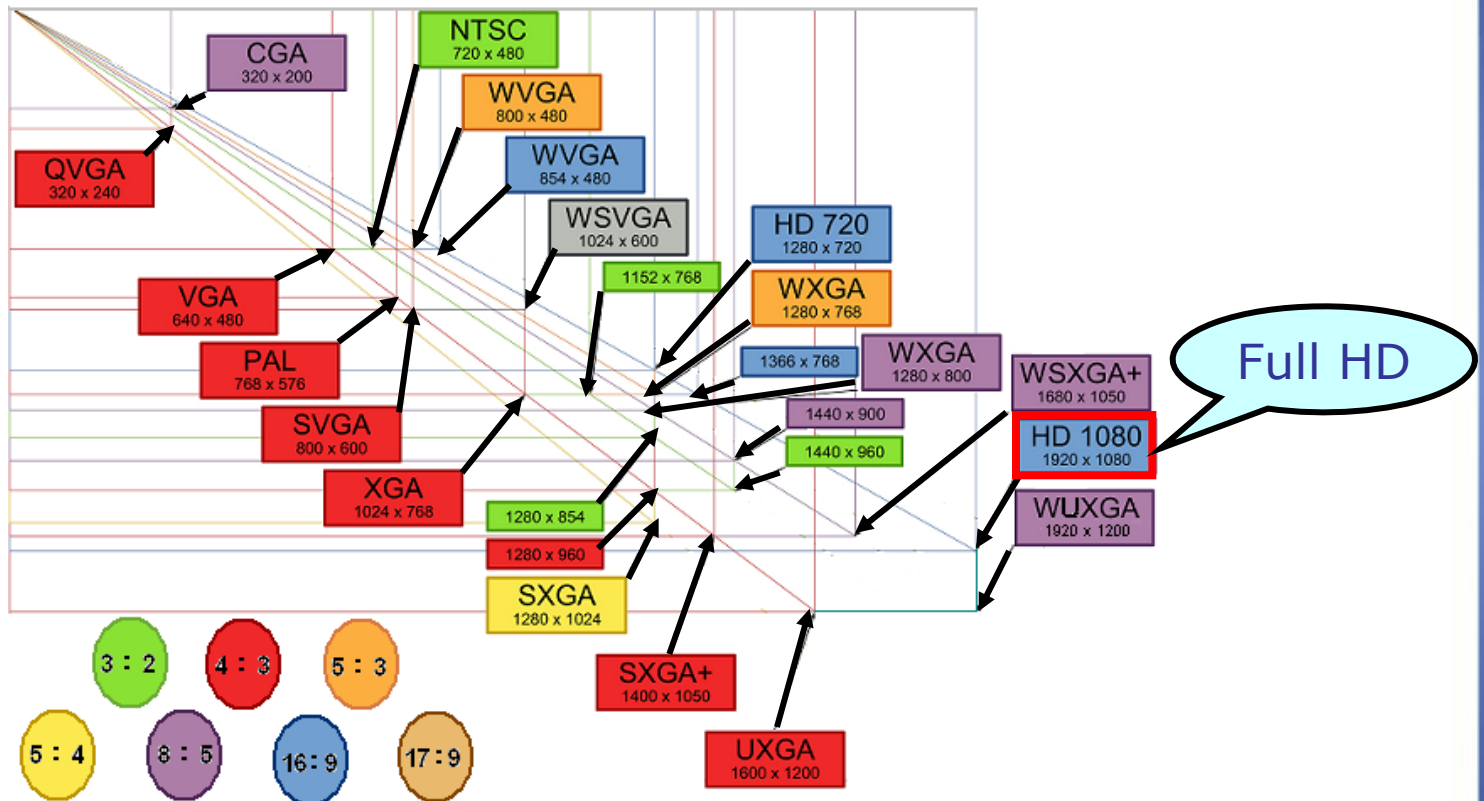
- ◆ By adopting “EDID COPY” function, it will allow the system to **copy EDID information from EDID compliant displays** in order to assure accurate display performance

### Supports Extended Display Identification Data



# Product Features

**Compatible with many screen resolution to XGA, SXGA, UXGA, WSXGA....Full HD system**



# Product Features

## High Quality Output and Performance

- ◆ **Stunning Ultra High Quality 1080P HDMI Video** broadcast over IP network, and CD quality level audio (**2ch. Audio dts.**). Moreover, **HDCP** (High-Bandwidth Digital Contents Protection) and **Blu-ray** compliant. The high speed transmission, real-time high video resolution, security, and noise immunity must give the viewer the maximum visual presenting impact and easy clear reading



# Product Features

## Tearing Delay Improve

- ◆ Setting up Tearing Delay value via GUI control.



# Applications

## Anti-Dither

◆ It's probably cause "Motion Blur" or "Broken Map" when user play the high quality video, but after "Anti-Dither" adjustment can be improved.

There are three levels: off>1>2



**Anti-Dither 2**  
**(Not enough)**

# Product Features



**Anti-Dither 1  
(Better)**



**Anti-Dither off  
(Best)**






# Product Features

## Graphic Mode & Video Mode

- ◆ Graphic Mode : It's usually for the **static state video**, **pictures are the main display contents**, and the pixel update processing is not so fast. The **CPU consumption is lower than video mode**.
- ◆ Video Mode : It's usually for the **dynamic state video**, **video are the main display contents**, and the pixel update processing is fast. The **CPU consumption is higher than graphic mode**.

After change modes and Anti-Dither adjustment, we can improve the display quality.

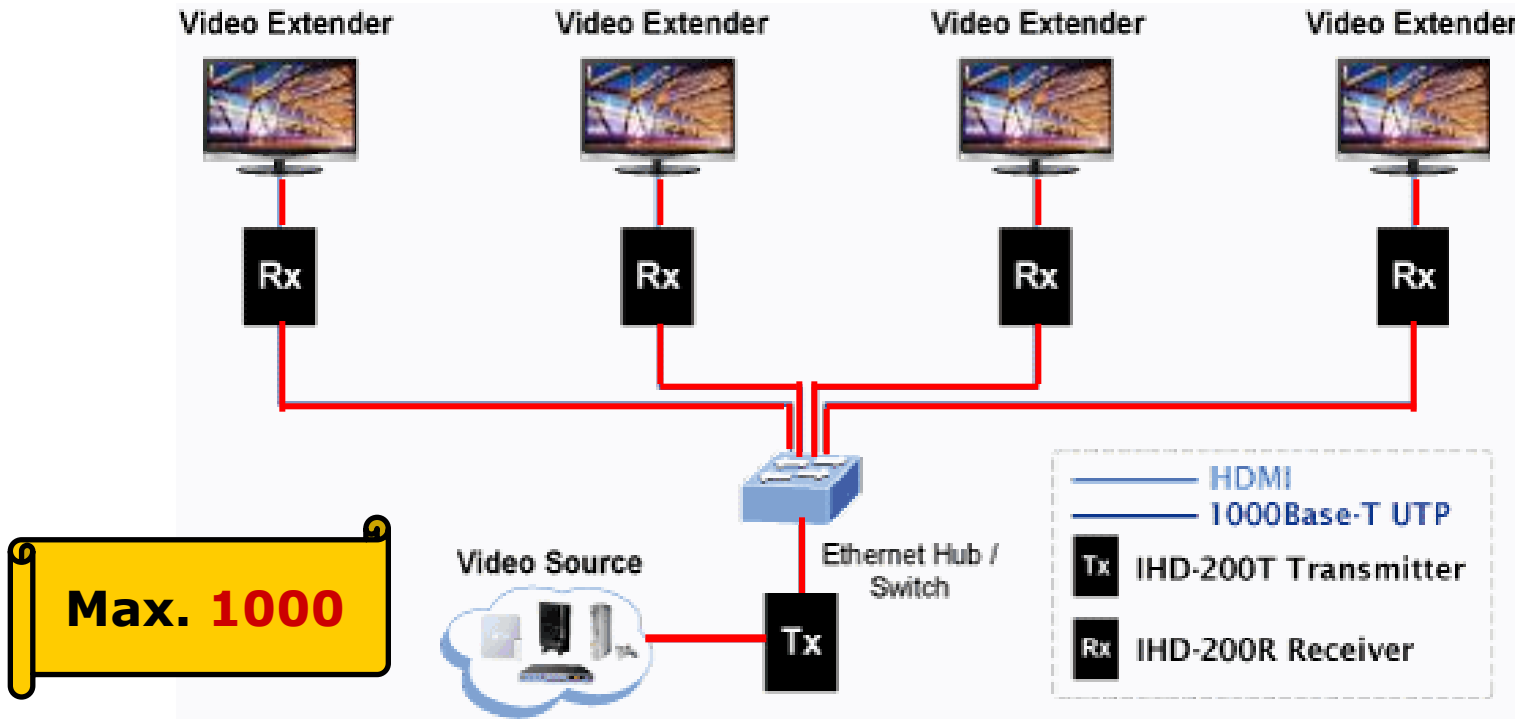
Here is the performance from the worst to the best.

Graphic Mode	Graphic Mode	Graphic Mode	Video Mode	Video Mode	Video Mode
Anti-Dither 2	Anti-Dither 1	Anti-Dither off	Anti-Dither 2	Anti-Dither 1	Anti-Dither off
<b>WORST</b>				<b>BEST</b>	

# Applications

## Video Extender

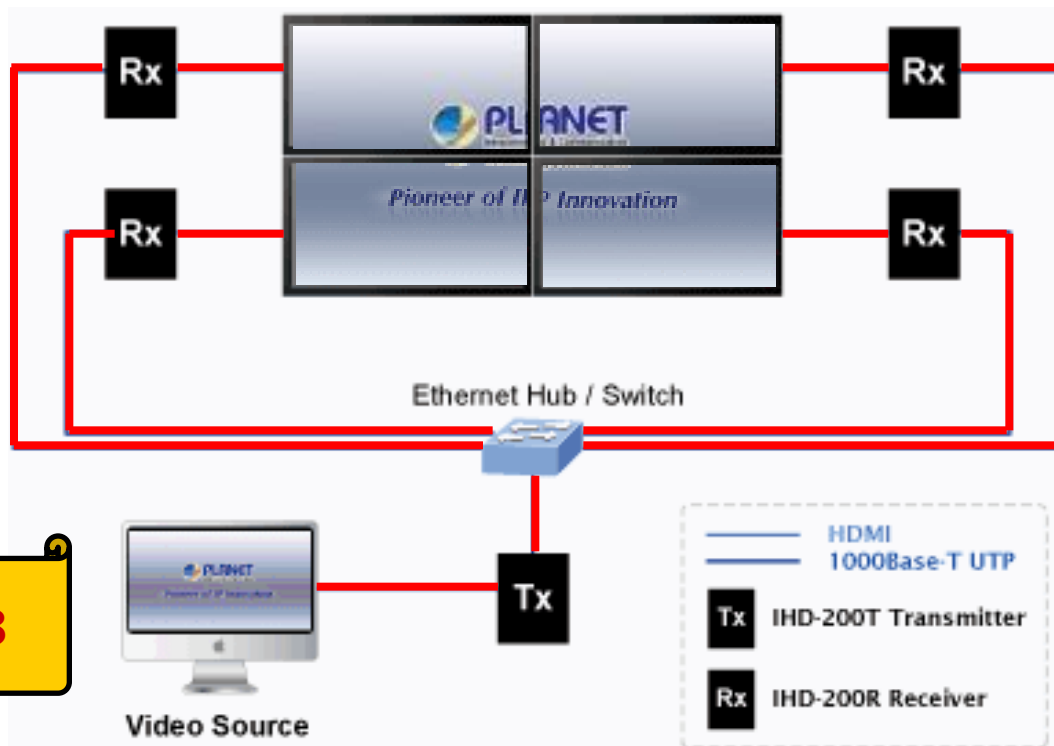
◆ According to the topology to **duplicating the same source to multi-monitors** as following picture. Witch can be used in expo, food court, boardrooms, and any public area. (The maximum of Rx can up to 1000 via one Tx.)



# Applications

## Video Wall

- ◆ According to the topology to **splitting one screen to do the video wall** as following picture. Witch can be used in department store, movie theater, etc. (The maximum of Rx can up to 8x8 via one Tx.)

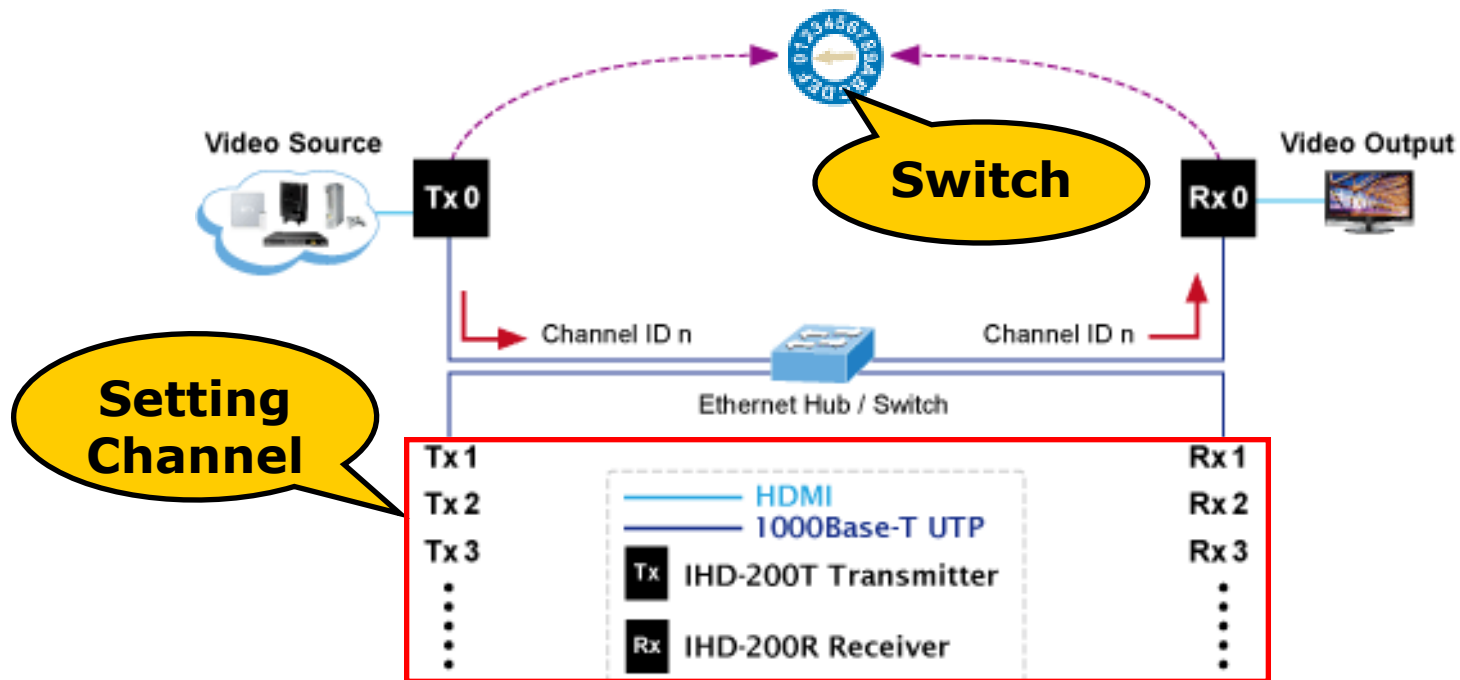


**Max. 8x8**

# Applications

## Provide 16 Channels Selectable (DIP)

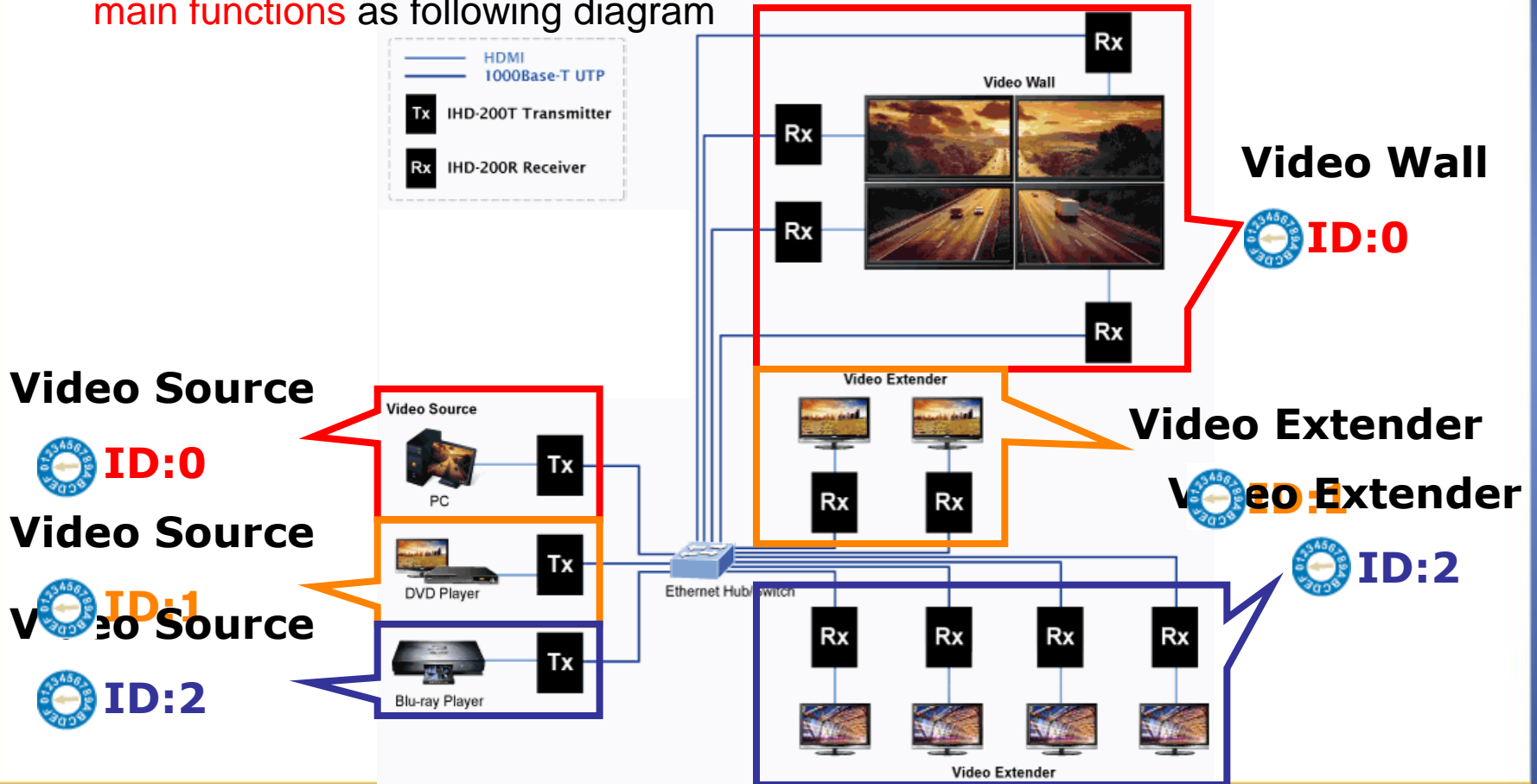
- ◆ By sliding the Rotary DIP Switch to the correct number, you can distinguish the transmitter and receiver units into the same group of pairs in the same channel, when there is more than one transmitter



# Applications

## Combine the Two Functions

- ◆ By using the 16 channels selectable (DIP) way to **combine the two main functions** as following diagram



# Appendix - Sales Target



## Hospital / Bank

Deliver medical / commercial information to patients and visitors

## Public Transportation / Escalator

Display arrival/departure info and provide advertising



## Appendix - Sales Target



**Restaurant / Book store**  
Digital menu board and advertise



**Retail store**  
Highlight discount and promotional items

# Appendix

## ◆ Ordering Information

Model Name	Description
<b>IHD-200T</b>	<b>HDMI/VIDEO Wall over IP Transmitter</b>
<b>IHD-200R</b>	<b>HDMI/VIDEO Wall over IP Receiver</b>







# **ACTIVATING IP POWER**