

HDMI / Video Wall over IP Receiver with PoE



Make Advertising Effective and Easy

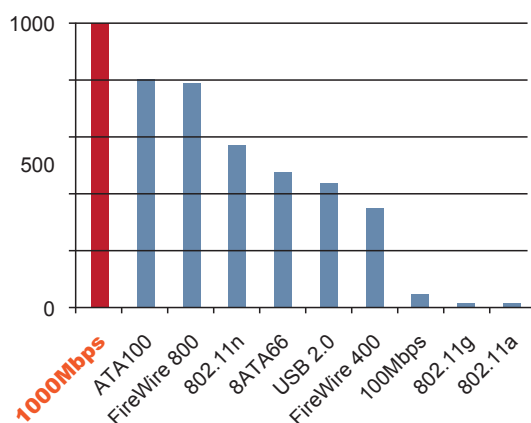
PLANET **IHD-200** HDMI / Video Wall over IP **with PoE** delivers a great HD video distribution solution such as bringing an efficient and effective advertising deployment. The **IHD-200 PoE series** is the combination of the transmitter, **IHD-200PT**, and the receiver, **IHD-200PR**. They allow you to simultaneously send out a HDMI signal to one or more HDMI displays over a single cat. 5/5e cable (or above) Ethernet infrastructure. Besides, by supporting PoE function, meaning there is no additional power supply needed, the IHD-200 PoE series thus reduces the complexity of cable.

The **IHD-200 PoE series** can distribute HD digital content from multiple sources to practically any number of remote displays on a LAN and deliver ultra high quality 1080P HDMI video broadcast over IP network. It not only offers smooth vivid 1080P full motion video with audio quality as CD, but also ensures the sharp images and text giving the viewers the maximum visual effect and ease of reading. By cascading multiple Ethernet switches as the backbone of the IHD-200 PoE series, it allows displays to be distributed far away from the source devices while sustaining consistent 1080P video and audio quality. The video sources can be rack centralized, decentralized or even a mixture of both. It thus increases the flexibility, scope and scalability of audio and video distribution via the Ethernet networks.

High-Speed Video Distribution via Gigabit LAN

The IHD-200 PoE series is a perfect solution for audio and video signal extension via the existing LAN. Designed with Gigabit LAN interface, it supports super high speed transmission, which makes it ideal for live presentations, public broadcasting, education training, boardrooms, etc.

IHD-200 Series HDMI over IP Performance



HDMI Network

- 1080P ultra high quality video transmitter
- Assigns video sources to any monitor of the video wall
- Up to 8 x 8 Screen Array supported
- Extends high definition video signal over Gigabit LAN and IGMP
- The selectable 16-channel DIP switch is easily applied for multi-casting group matching
- 1-to-1, 1-to-many and multi-casting broadcasting architectures allow to add more displays without adding LAN bandwidth loading

Video Output Characteristics

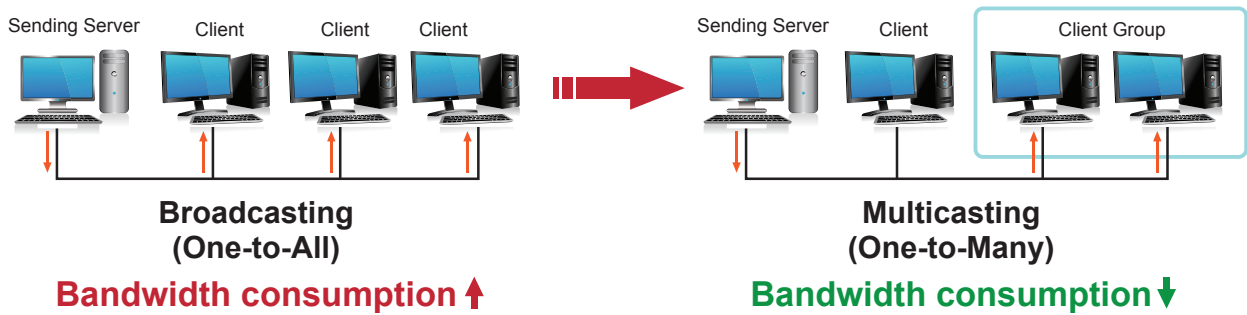
- HDCP compliant and Blu-ray ready
- Supports HDMI with 2ch. audio (dts.)
- HDTV compatible, supporting 1080P, 1080i, 720P, 720i
- Compatible with common screen resolutions from XGA, SXGA, UXGA, WSXGA to the latest Full HD system

Easy Installation & Management

- PoE function supported; no additional power supply needed
- Automatic EDID (Extended Display Identification Data) configuration
- Friendly Web UI and simple utility for ease of use
- Supports multi-casting group with Gigabit Ethernet Managed Switch (802.1q VLAN & IGMP function required)
- VESA mounting bracket supported

Exclusive Video Transmission by IGMP Multicast Technology

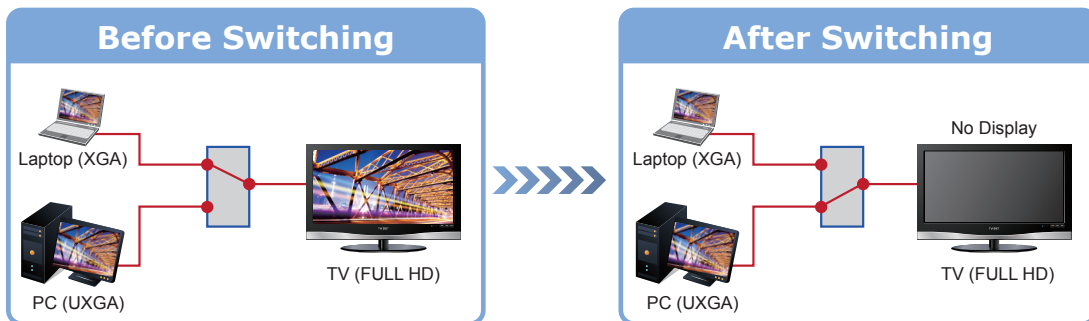
One IHD-200PT in local site can drive multiple IHD-200PR in remote sites without consuming extra network loading. Integrating with Gigabit switch built-in with IGMP multicast functions, there are 16 channels selectable via the IHD-200 PoE series and up to 4 channels can be transmitted simultaneously. IGMP is an integral part of IP multicast and a communications protocol used by hosts and adjacent routers on IP networks to establish multicast group memberships. IGMP can be used for one-to-many networking applications such as online streaming video and gaming, and allows exclusive transmission and more efficient use of resources.



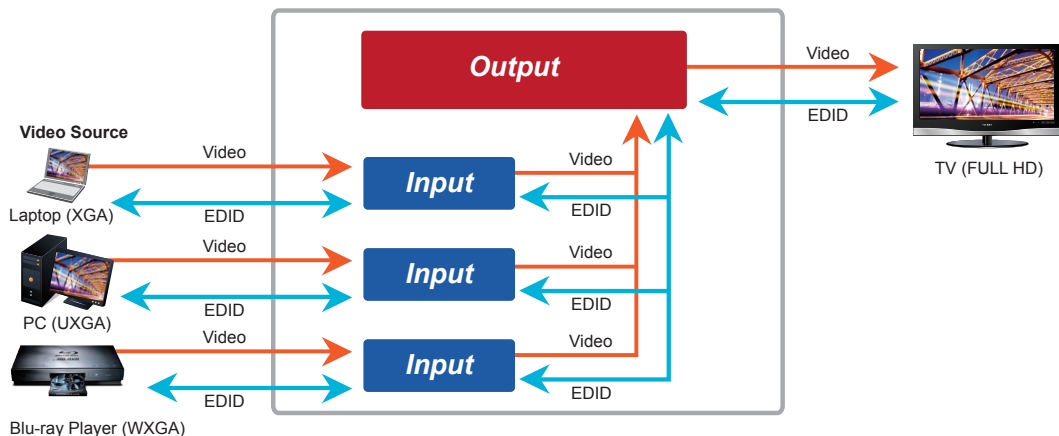
Extended Display Identification Data (EDID) Support

The IHD-200 PoE series adopts EDID (Extended Display Identification Data) COPY function to make smooth video distribution over different types of display units. EDID is greatly important as it contains information about resources' manufacturer names, serial numbers, product types, maximum image sizes, color characteristics, factory pre-set timings, frequency range limits, etc. In some cases, display problems may occur due to incorrect EDID communication between the display monitor and the transmitting unit or inappropriate EDID data programmed by display manufacturers. Therefore, with EDID COPY function, the IHD-200 PoE series allows the system to copy EDID information from EDID compliant displays and assures accurate display performance.

Without Extended Display Identification Data



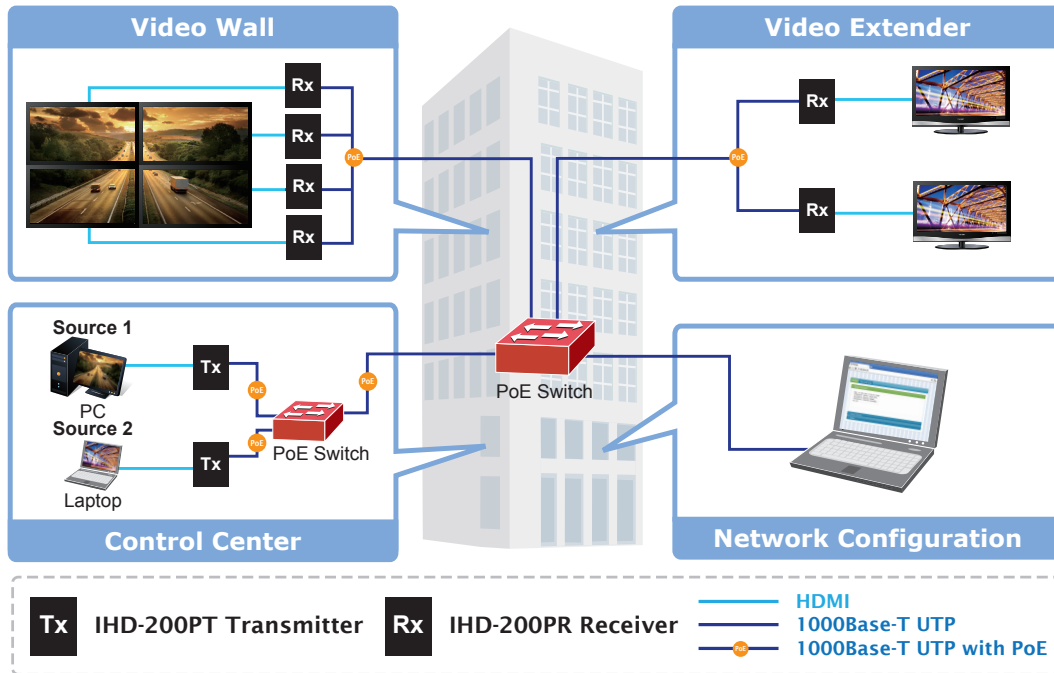
Supports Extended Display Identification Data



Easy Video Channel Matching through Network Configuration

The IHD-200 PoE series network can be configured by a central computer over the same LAN within a certain distance. Fully leveraging the mature Gigabit Ethernet with 802.1Q VLAN function, multi-casting can be performed to allow more video sources/senders in the network and be remotely managed. Just adjust and match video channel setting by the simple DIP switch in both the IHD-200PT and IHD-200PR. The video distribution is easily deployed through Plug and Play.

Network Configuration



High Quality Output and Performance

The IHD-200 PoE series supports Full HD 1080P, HDCP and Blu-ray quality, which have been commonly used for applications that require real-time high video resolution and transmission in long distance. It also contains security and noise immunity as well as HDMI with 2ch. audio (dts.) functions to offer the superior video distribution.

Full HD Resolution

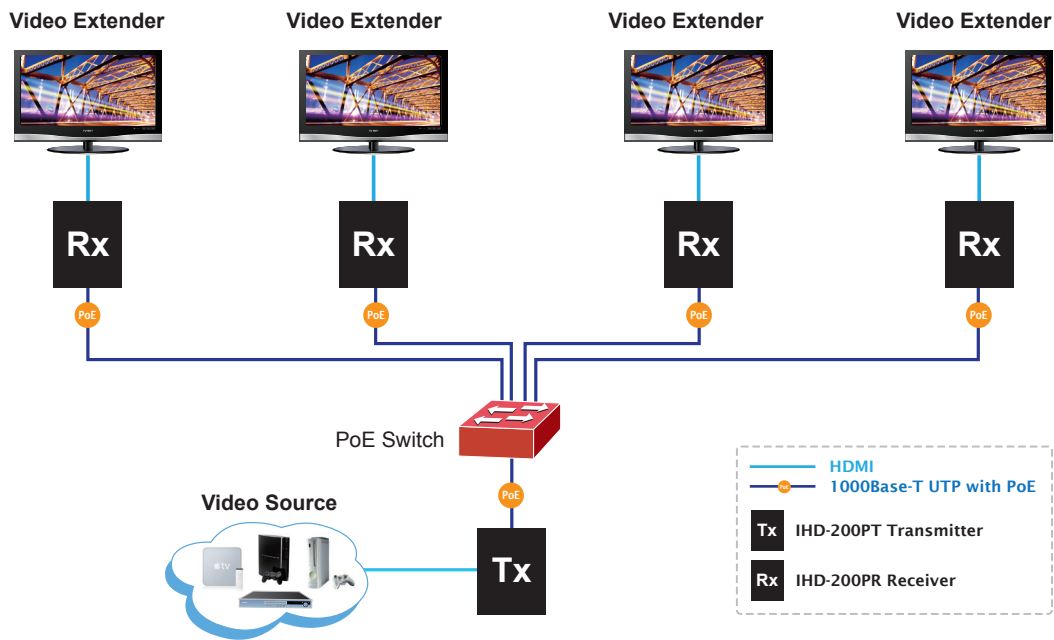
The image shows a comparison of video resolutions. On the left, a small inset shows a 640x480 resolution view of a shopping mall. On the right, a larger view shows a 1920x1080 resolution view of the same mall. To the right of the images are logos for Full HD 1080P, Blu-ray, and dts.

Application

PLANET IHD-200PT and IHD-200PR work as a pair to facilitate the management of video wall and HDMI display over IP Ethernet with PoE.

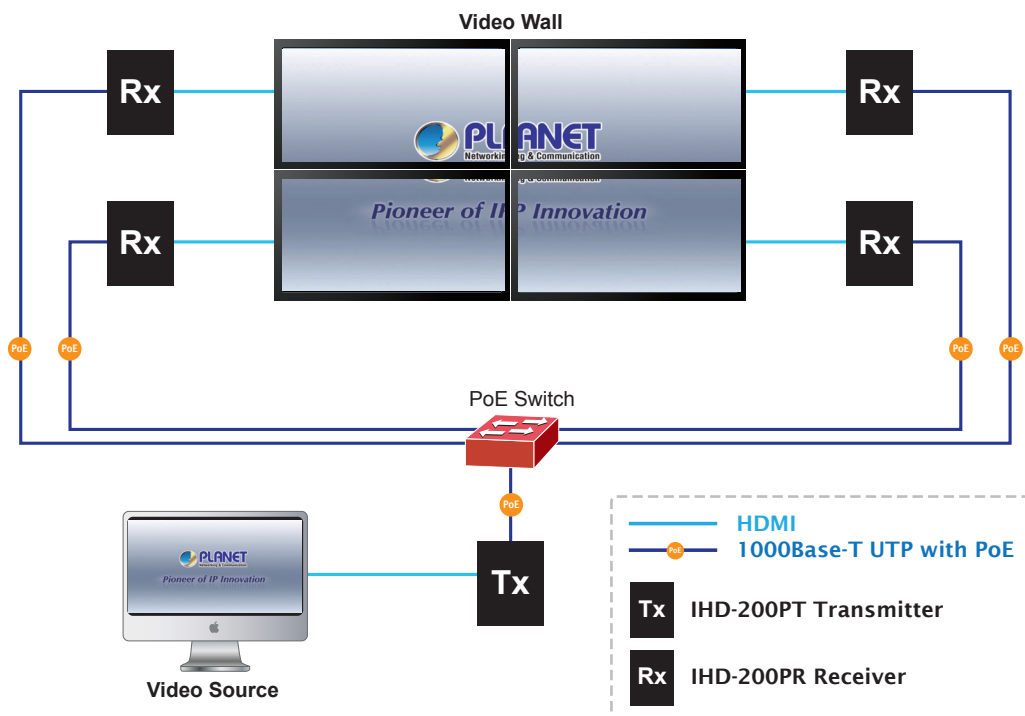
Video Extender

The IHD-200PT and IHD-200PR are able to send the same video signal to multi-monitors in different locations at the same time. It helps to quickly extend the image and commercial to the public efficiently in such places as expos, food courts, boardrooms, and any public areas.



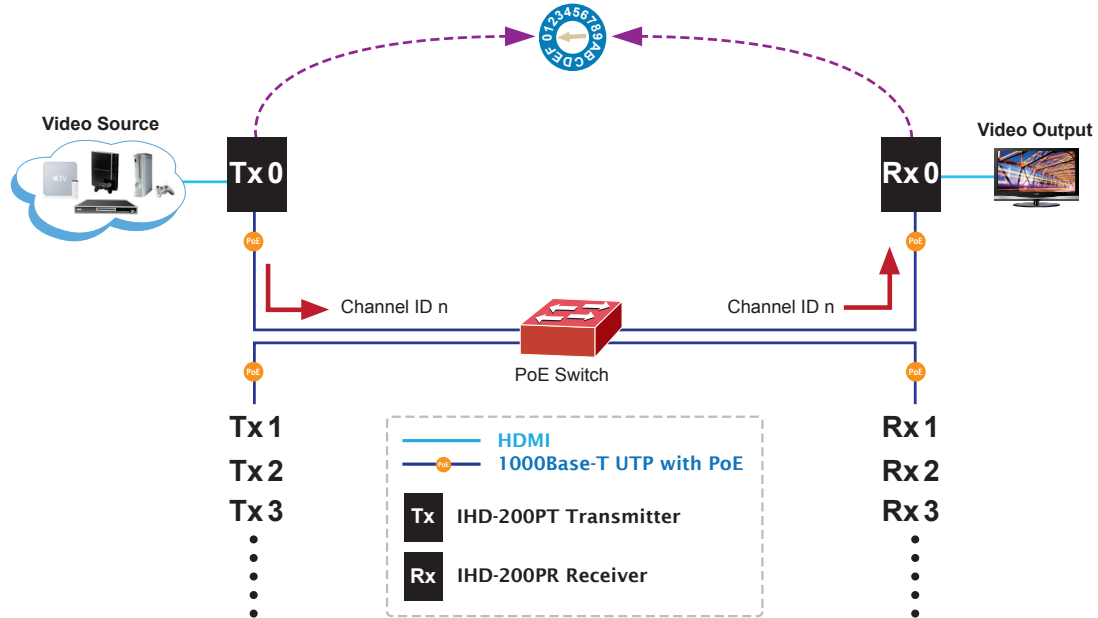
Video Wall

To bring the image and picture in larger size over video wall, the IHD-200PT and IHD-200PR are the ideal solution to distributing one specified image, picture, or video to multiple screens which are usually applicable for sports, department stores, movie theaters, etc.



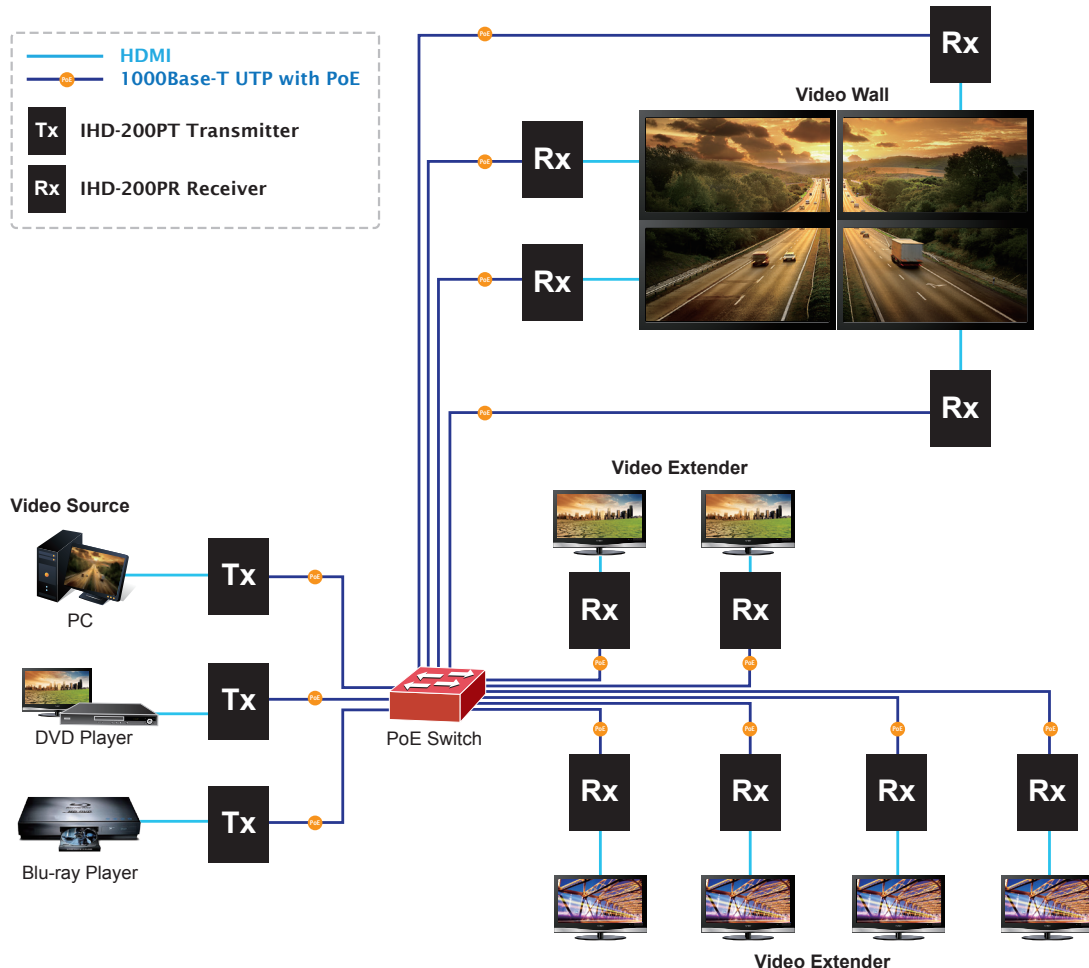
Efficient Control via Selectable 16 Channels DIP Switch

Where there is more than one transmitter in the video wall system, the rotary DIP switch in the IHD-200PT and IHD-200PR facilitates distinguishing the pair of the transmitter and receiver units in the same channel. It further enables the broadcasting system to perform multi functions including Video Extender and Video Wall simultaneously through matching of the IHD-200PT and IHD-200PR.



Combining the two functions

The selectable 16-channel DIP switch is applied to combine the two main functions as shown in the following diagram:



Specifications

Model	IHD-200PR
Hardware Specifications	
Network Interface	RJ-45 port (10/100/1000Base-T Ethernet) x 1
Console	Control port x 1 AUX / EXT. port x 1
Cabling	Cat. 5/5e/6 UTP cable
LED	Power/Link: Solid / Blinking / Off Network Status: Blinking / Off
Buttons	Linking button x 1 Change mode button x 1 Reset button x 1
Source interface	HDMI A Type
Mounting Bracket	VESA mounting bracket
Channel Switching	DIP (16 channels)
Standards Conformance	
Standards Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3af
Video Resolution (max.)	Full HD (1920 x 1080) WUXGA (1920 x 1200) @ 60 Hz
Security	HDCP compliant
Audio	HDMI with 2ch. audio (dts.)
Maximum Distance	Point-to-Point / multi-cast, 100 meters
Management Interfaces	Web (LAN), Serial
System Expandability (max.)	Broadcast:16000
Video Rx Array (max.)	8 x 8
Resolution Identification	EDID (Extended Display Identification Data)
Environment Specifications	
Operating	Temperature: 0~50 degrees C Relative Humidity: 0~90% (non-condensing)
Storage	Temperature: -20~60 degrees C Relative Humidity: 0~90% (non-condensing)
Power Supply	9~12V DC, 1.5A
Power Consumption	13.5W (each unit)
Dimensions (W x D x H)	130 x 96 x 25 mm
Weight	492 g
Emission	FCC, CE

Ordering Information

IHD-200PT	HDMI / Video Wall over IP Transmitter with PoE
IHD-200PR	HDMI / Video Wall over IP Receiver with PoE

Related Products

IHD-200T	HDMI / Video Wall over IP Transmitter
IHD-200R	HDMI / Video Wall over IP Receiver
ITB-3001	High Definition IP Set-Top Box
WTV-3000	Wireless Display TV Adapter