

1080p HDMI Extender over IP
with PoE
IHD-210 Series



Outlines

- ◆ **Product Positioning**
- ◆ **Product Overview**
- ◆ **Product Features**
- ◆ **Applications**
- ◆ **Comparison**
- ◆ **Appendix**



**Extend HDMI Digital Video & Audio
over Ethernet**

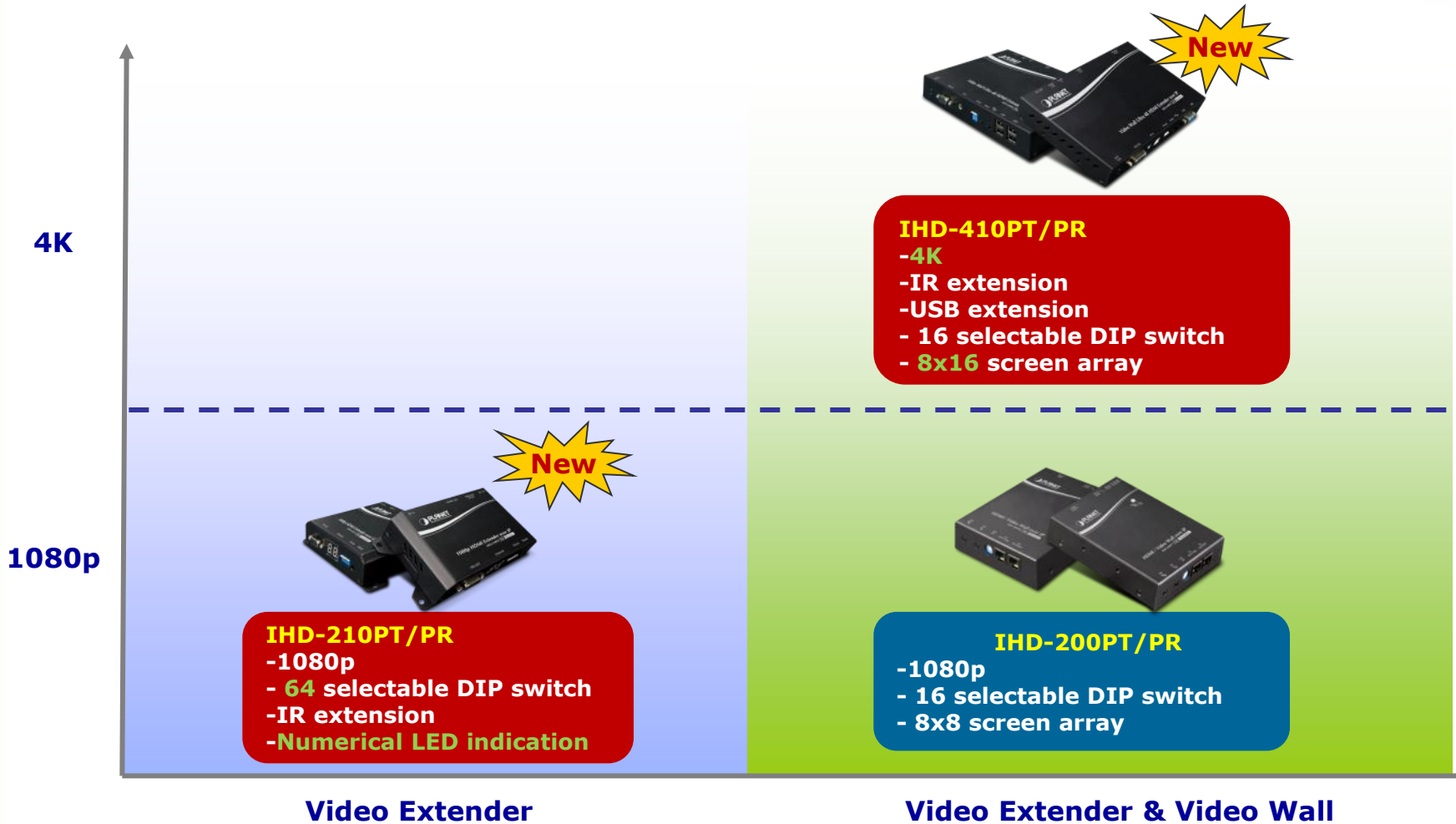


Product Positioning



Product Positioning

◆ PLANET HDMI Extender Family

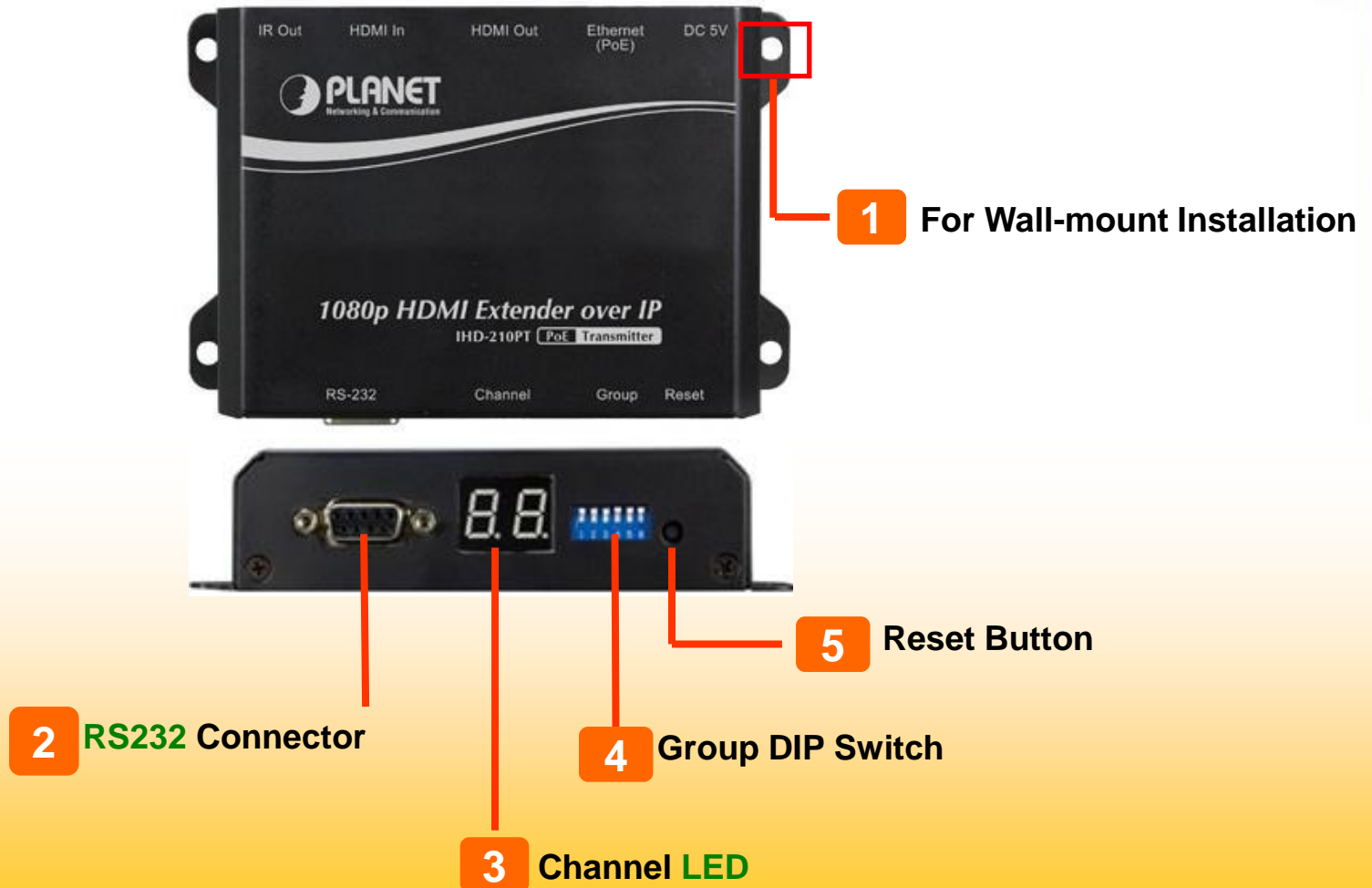


Product Overview



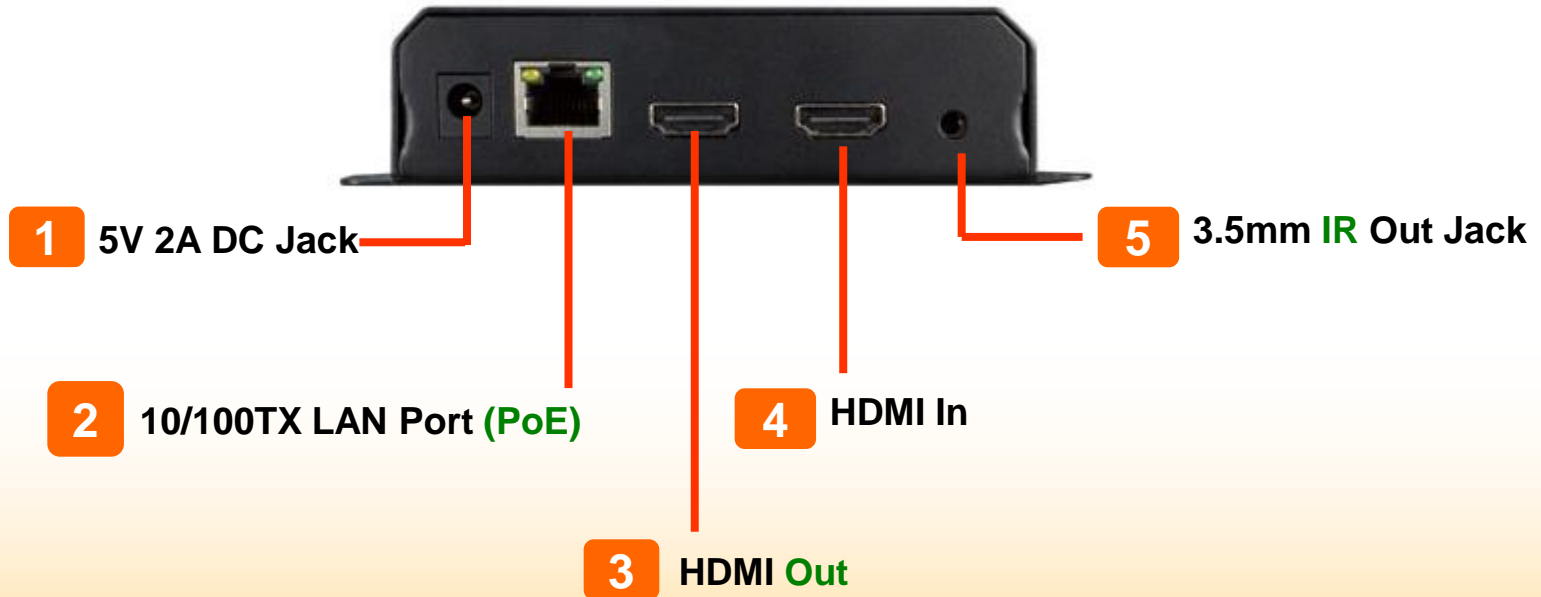
Product Overview

◆ Top and Front View of IHD-210PT



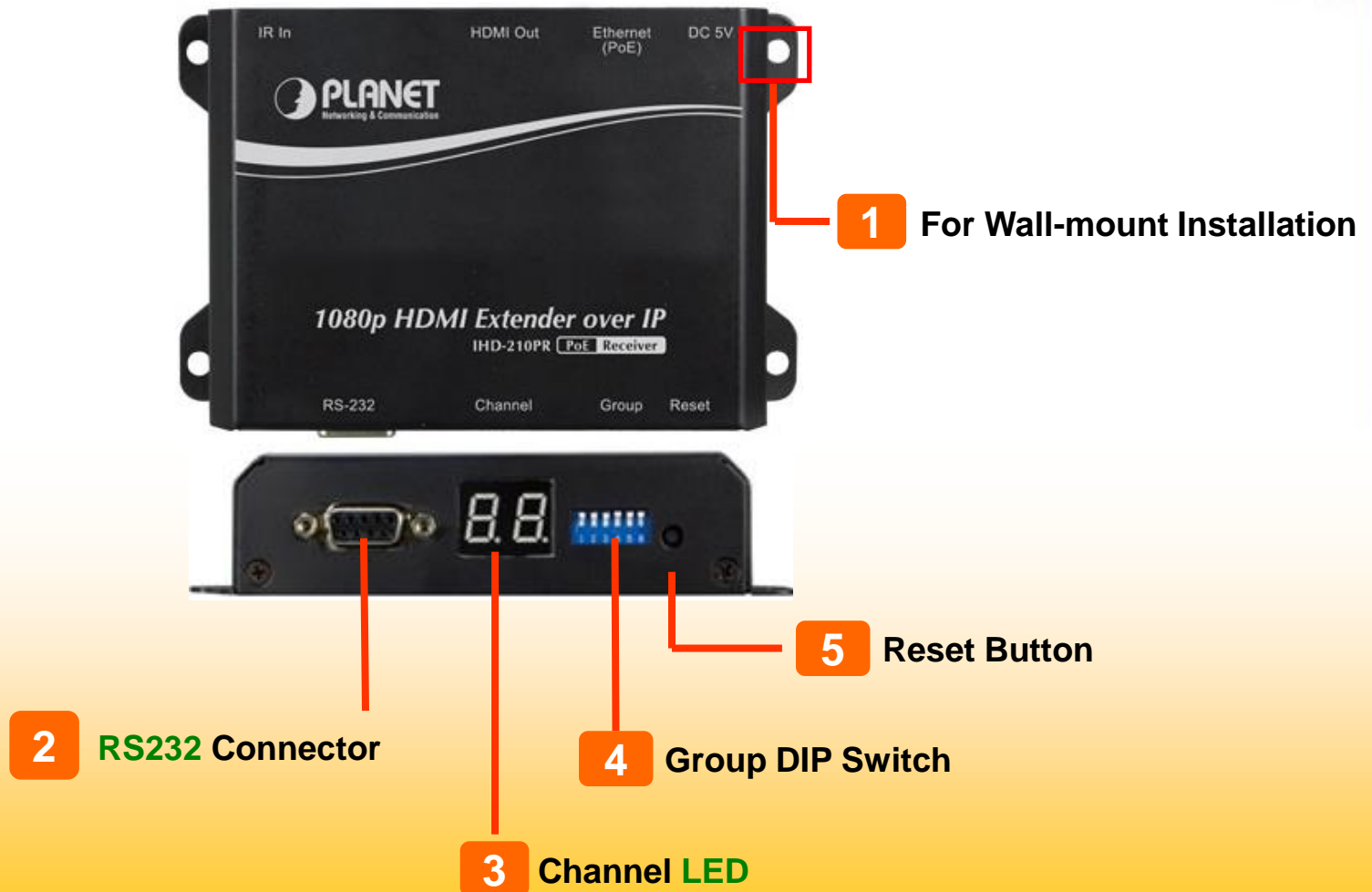
Product Overview

◆ Rear Panel of IHD-210PT



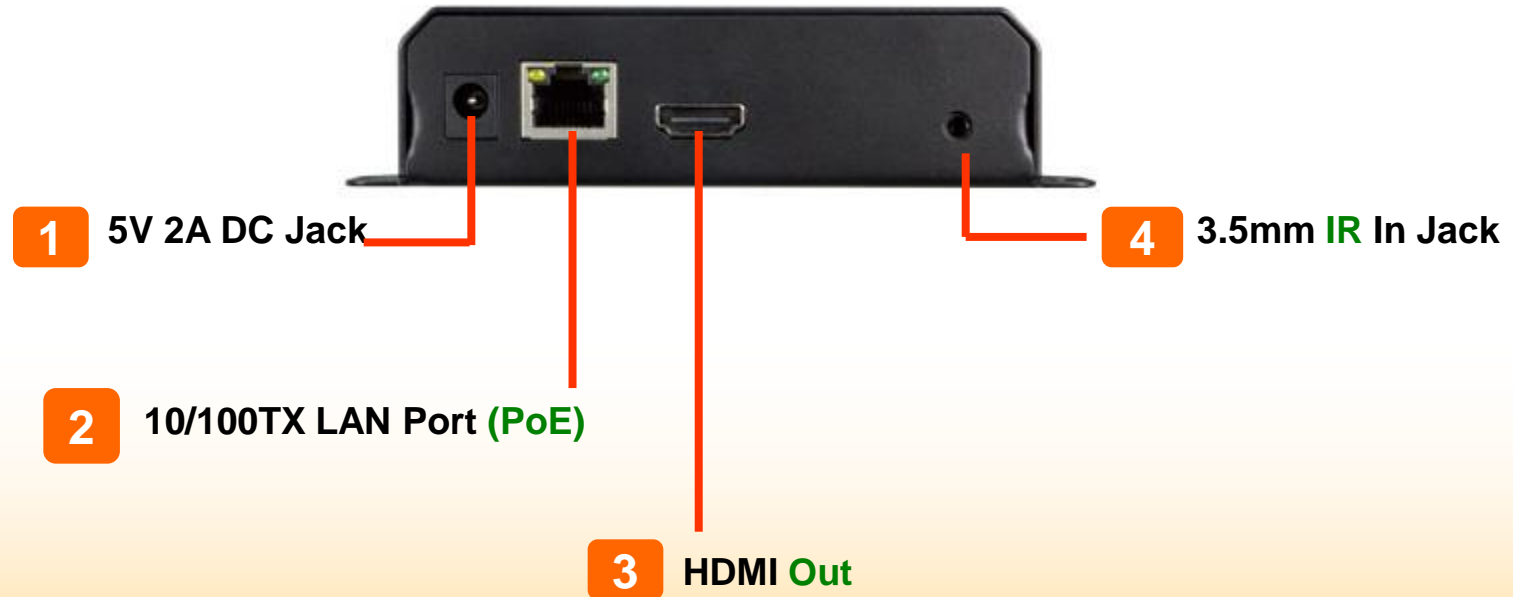
Product Overview

◆ Top and Front View of IHD-210PR



Product Overview

◆ Rear Panel of IHD-210PR



Product Features



Product Features

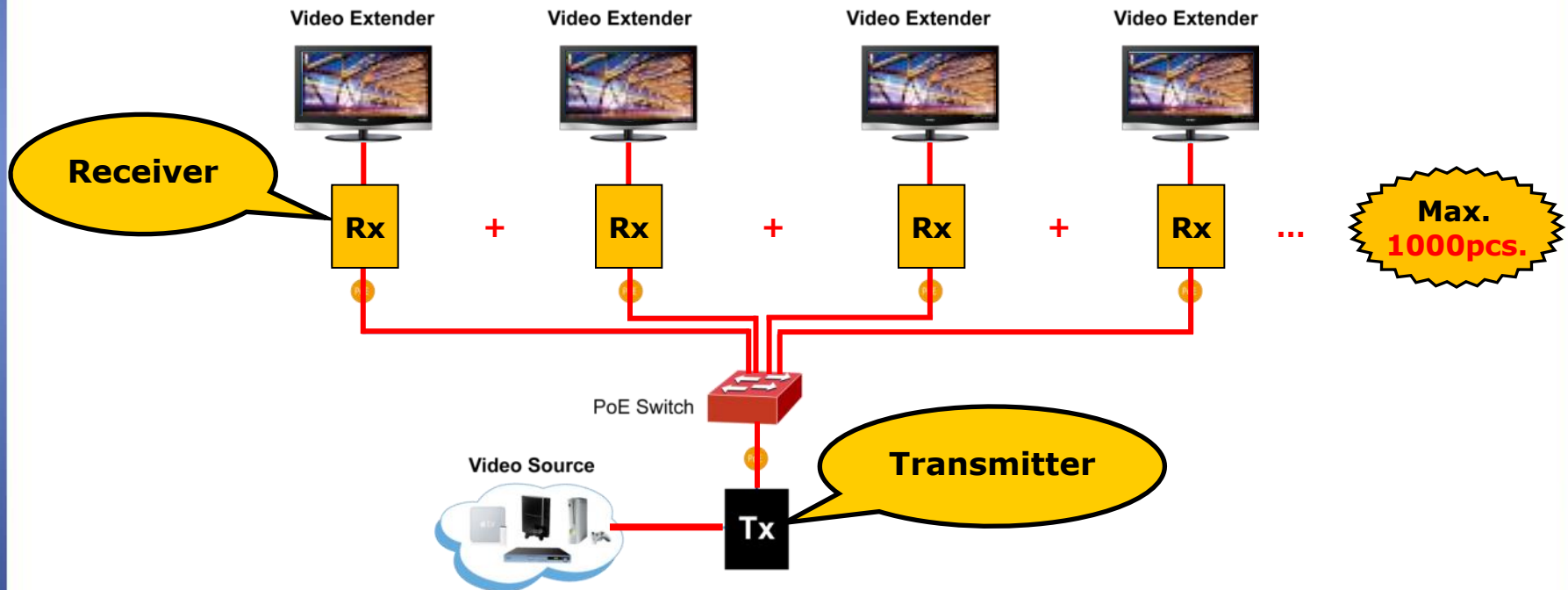
◆ HDMI and Network

- ✓ Compatible with common screen resolutions from XGA, SXGA, UXGA and WSXGA to **Full HD** system
- ✓ Supports **RS232** bi-directional remote extension
- ✓ The selectable **64-channel DIP switch** is easily applied for multi-casting group matching
- ✓ Supports group with Ethernet managed switch (**IGMP snooping** function required)

Video Extender

◆ Video Extender

- ✓ The video can be **simultaneously broadcast from one same source to multi-monitors**
- ✓ A maximum of **1000** Rx units via one Tx can be displayed.



IGMP Snooping Function

◆ Multicasting



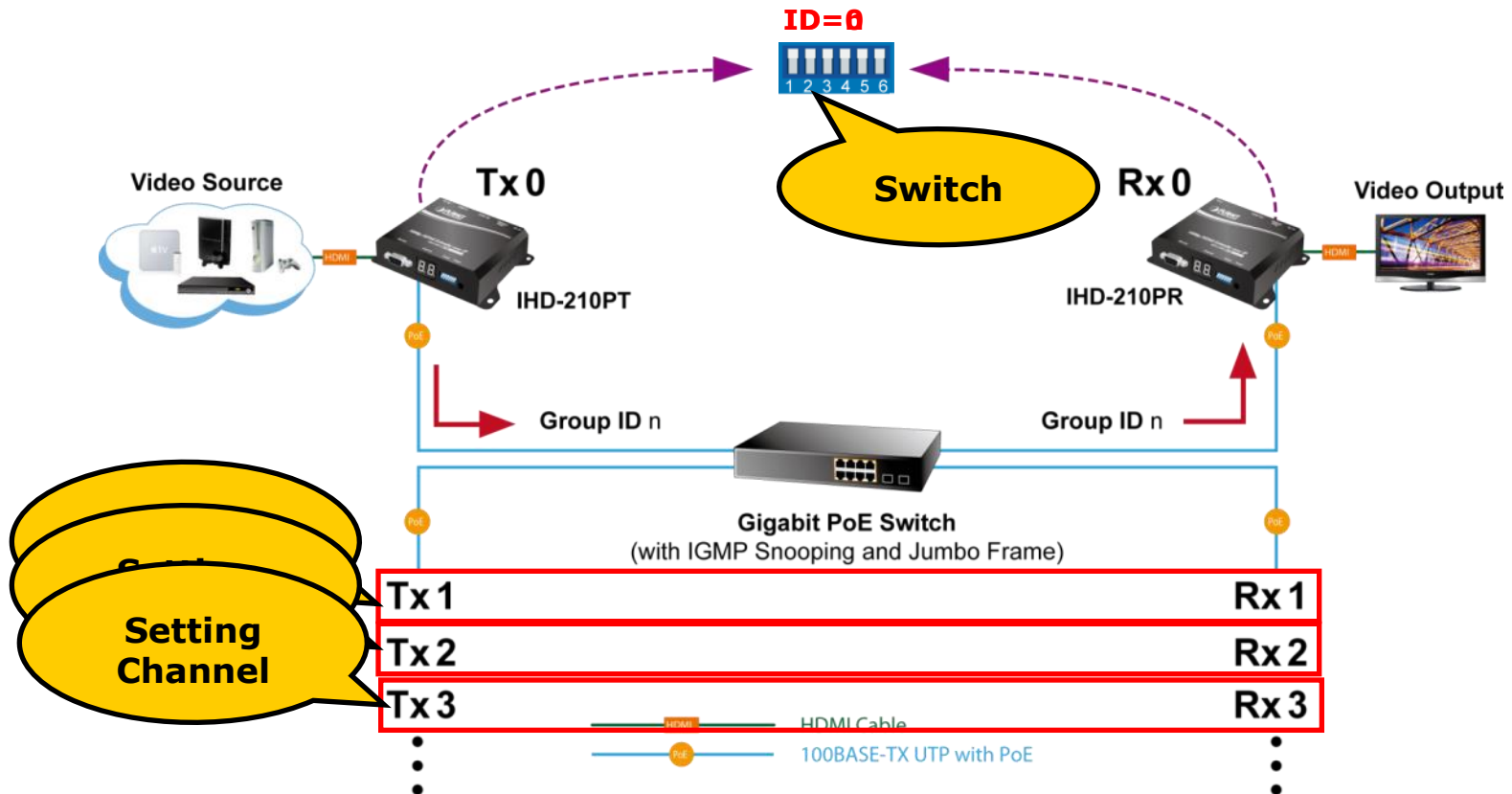
Bandwidth consumption ↑

Bandwidth consumption ↓

Application	Recommended Ethernet Switch
Video Extension Application	Gigabit PoE Switch with IGMP snooping function

DIP Switch

◆ 64 Channels Selectable (DIP Switch)



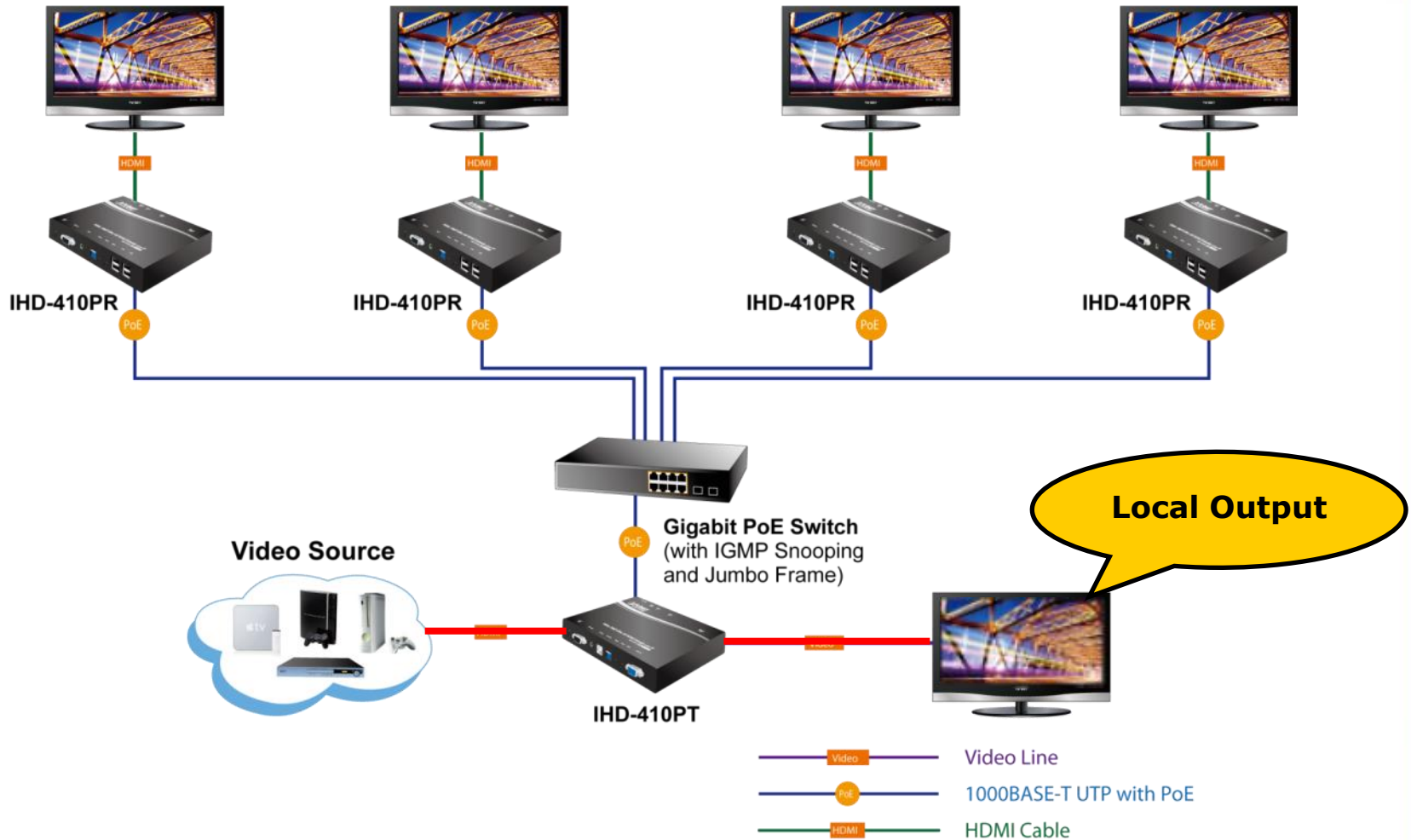
Product Features

◆ Video Output Characteristics

- ✓ Supports **HDMI local output**
- ✓ **HDCP** (High-Bandwidth Digital Content Protection) compliant and **blu-ray** ready
- ✓ **High compression streaming** for saving bandwidth
- ✓ Supports **HDMI with 2-ch uncompressed audio**

Local Output

- ◆ Supports local output for checking video resource



Product Features

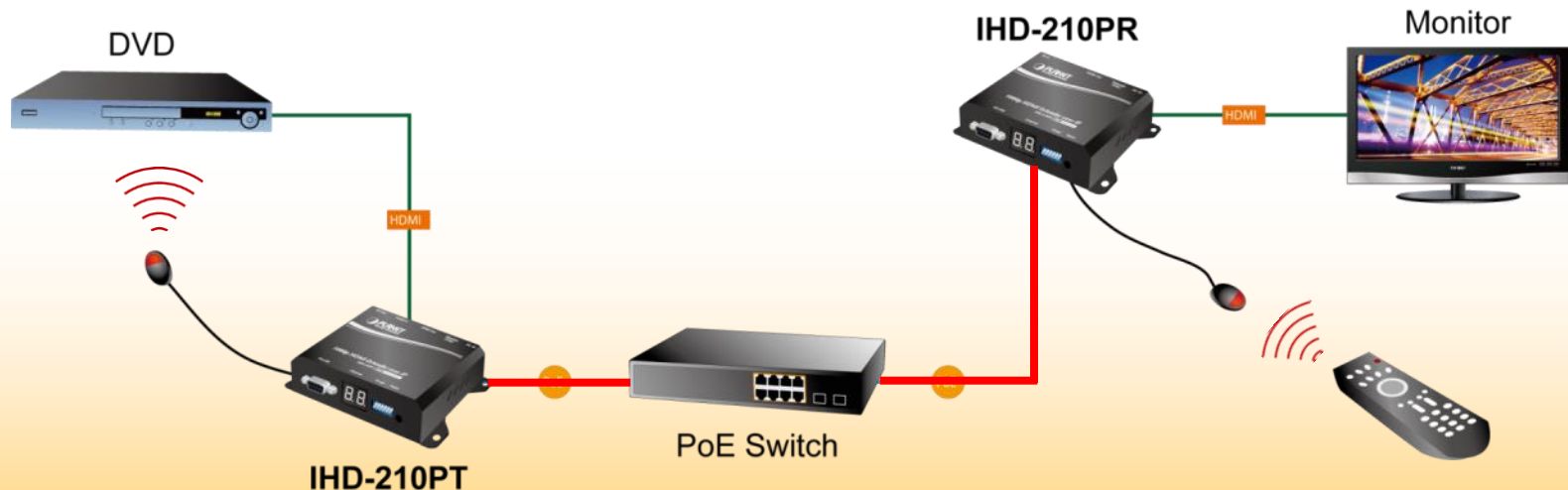
◆ Easy Installation & Management

- ✓ **Numerical LED indication** for identifying group ID
- ✓ **IEEE 802.3af/at PoE+** function supported; no additional power supply needed
- ✓ Supports **IR extension** for controlling video source
- ✓ **Automatic EDID** (Extended Display Identification Data) configuration
- ✓ Simple utility for ease of use

IR Extension

◆ IR extension for controlling video source

- ✓ Designed with IR transmitter and receiver interface, it allows users to control the video source at the terminal destination.



Product Applications



Applications

Public Transportation

Display arrival/departure info and provide advertising



Retail Store

Highlighting discount and promotional items





Product Comparison







Product Comparison

Model	IHD-210PT/PR	IHD-200PT/PR
Features		
Video Out Resolution (Max.)	1920 x 1080@30/25 Hz	1920 x 1080@30/25 Hz
Video Extender	■	■
Video Wall	-	■ (8x8)
Ethernet Port	10/100BASE-TX Ethernet	10/100/1000BASE-T Ethernet
IR Extension	■	-
RS232	■	-
Numerical LED Indication	■	-
Video Local Output	■ (HDMI)	-
PoE	IEEE 802.3af/at PoE+	IEEE 802.3af/at PoE+



Product Comparison

Model	IHD-210PT/PR	IHD-200PT/PR
Features		
HDCP Compliant	■	■
Auto EDID Copy	■	■
Compression Streaming	■ (15Mbps@1080p)	- (180Mbps@1080p)
Operating Temperature	0~55 degrees C	0~50 degrees C
Management Interfaces	Utility	Web management
DC In	5V DC, 2A	9~12V DC, 1.5A

Appendix



Appendix Sales Target

◆ Target Markets

- ✓ System Integrators
- ✓ Tender Market (Public Construction)
- ✓ Transportation, Hospitals, Banks...

◆ Profitable Products

- ✓ The following are potential to all customers:
 - IHD-200T/R
 - IHD-200PT/PR

Appendix







◆ **Related HDMI Extenders:**

Model Name		Description
IHD-200PT/PR		HDMI / Video Wall over PoE IP Extender
IHD-210PT/PR		High Definition HDMI Extender over IP with PoE
IHD-410PT/PR		Video Wall Ultra 4K HDMI/USB Extender over IP with PoE

Appendix

◆ Related PoE Switches:

Model Name		Description
POE-161		IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-span)
GS-5220-8P2T2S		L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch
GS-4210-16P4C		16-Port 10/100/1000T 802.3at PoE + 4-Port Gigabit TP/SFP Combo Managed Switch (220W)
GS-4210-24P4C / GS-4210-24PL4C		24-Port 10/100/1000T 802.3at PoE + 4-Port Gigabit TP/SFP Combo Managed Switch



ACTIVATING IP POWER