



Introducing HDMI 1.4 Specification Features

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Forward-looking Statements



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HDMI Ethernet Channel
Audio Return Channel
3D Support
4K x 2K Support
More Color Spaces
New Connectors

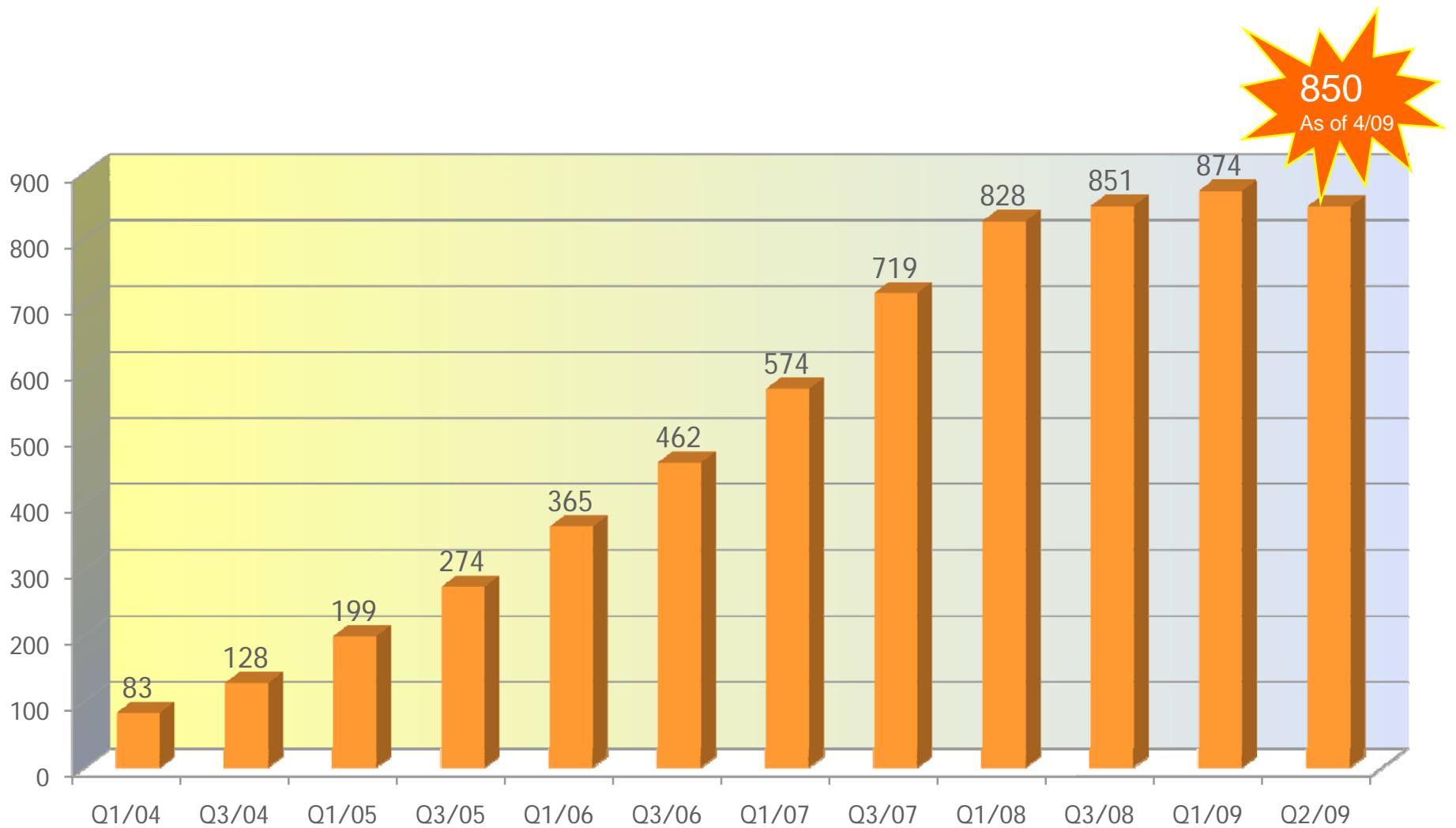
Announcing features
of the upcoming
HDMI 1.4 specification

a success story....

2003 2004 2005 2006 2007 2008 → 2009



850 Licensed Adopters

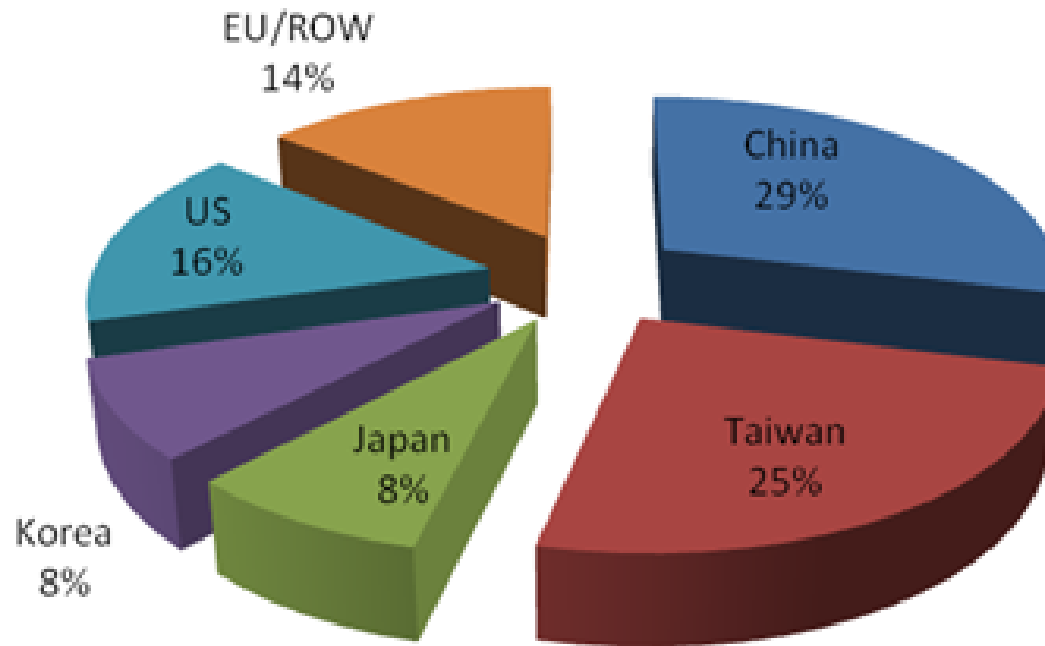


Source: 04/2009, HDMI, LLC

Adopters by Geographic Distribution

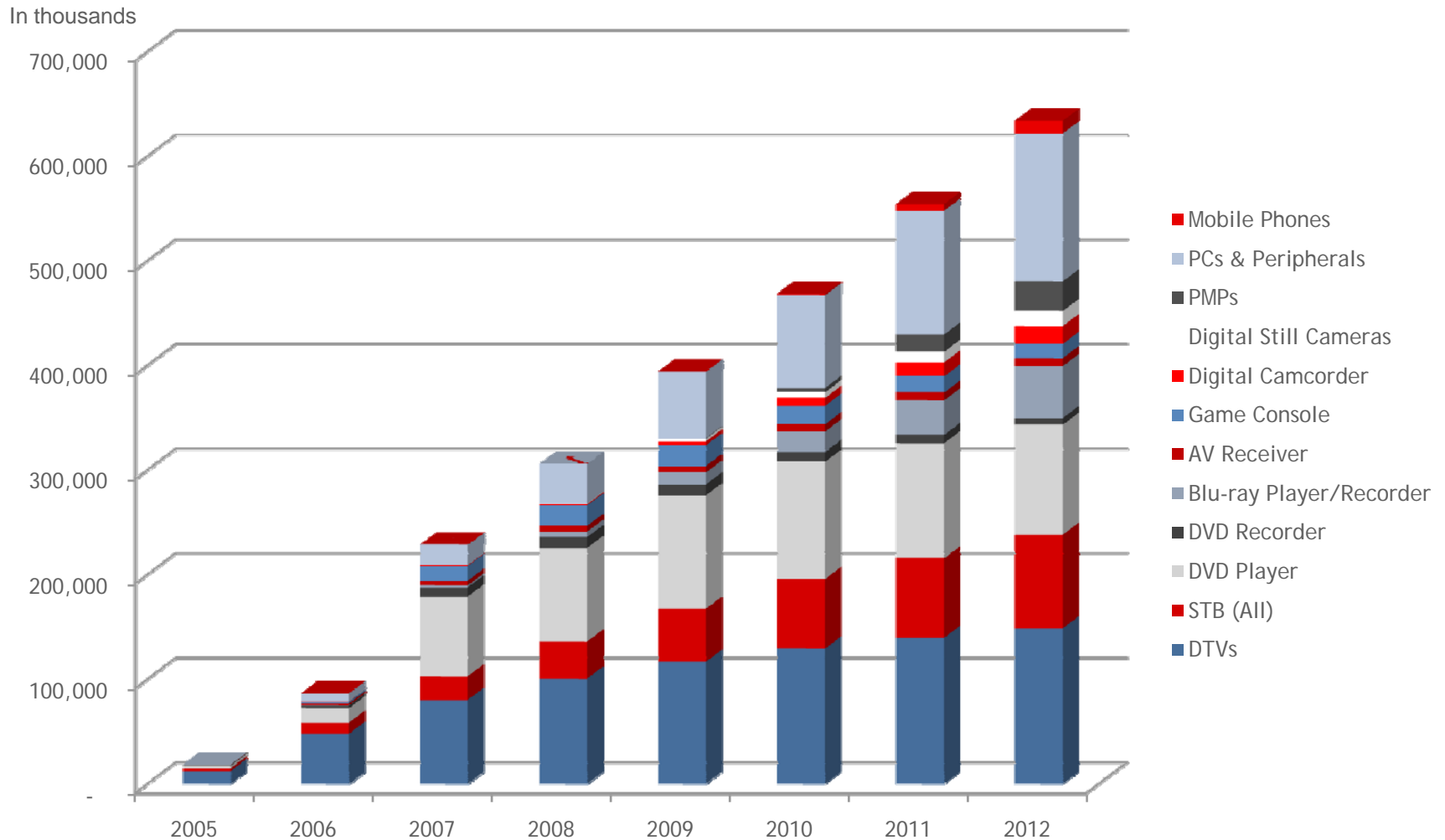


HDMI Adopters Distribution

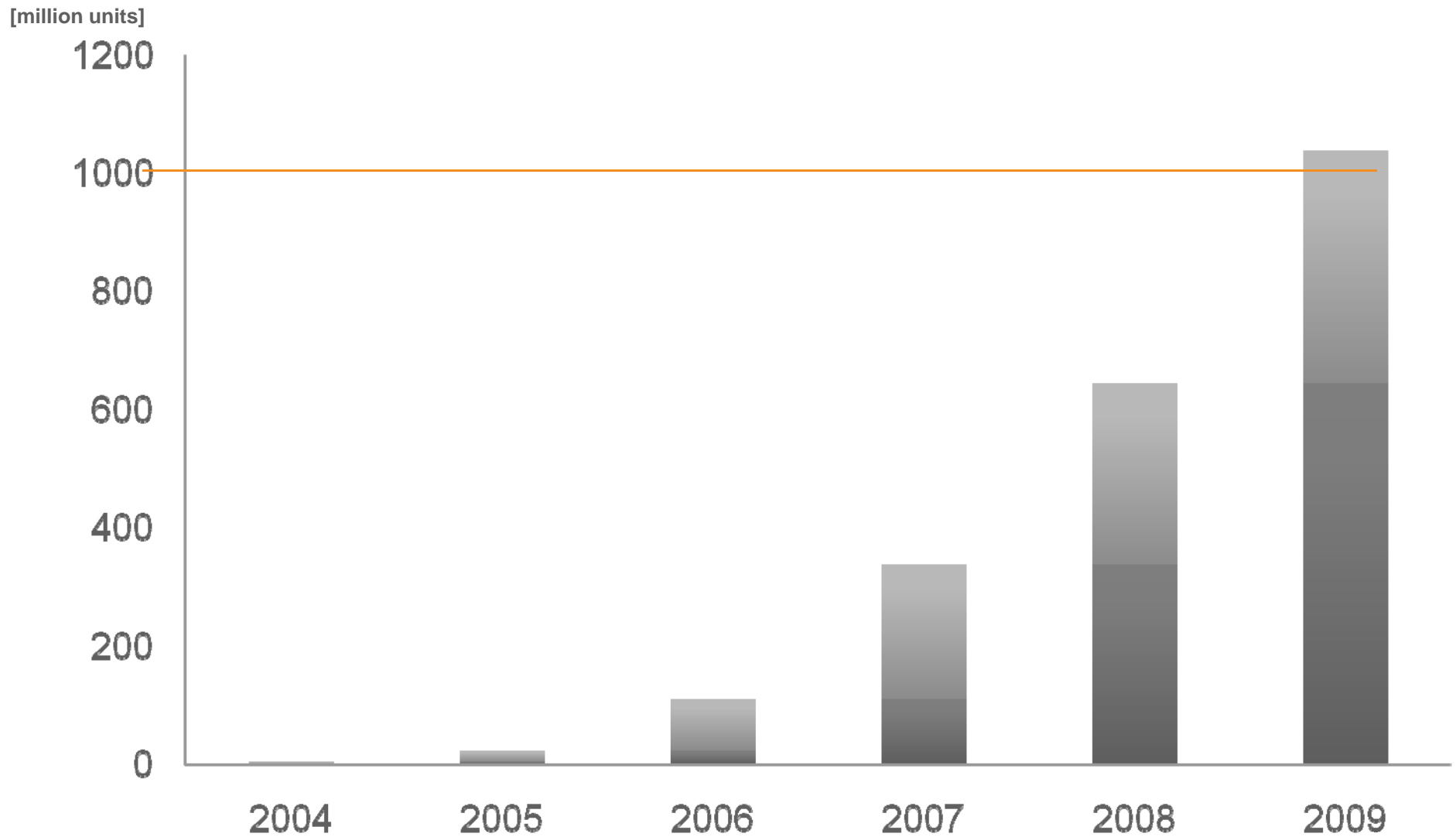


Source:04/2009, HDMI, LLC

Projected HDMI Devices Shipped



One Billion Unit Installed Base...



Source: 12/2008, In-Stat

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100%

HDMI Adoption



2009 Digital Televisions
2010 Blu-ray Players
2012 DVD Players

Source: 12/2008, In-Stat



Why has HDMI succeeded?

Simplicity | Reliability | Performance

Our Vision



HDMI is positioned to enable new consumer experiences by continuing to **evolve ahead of the market.**

By focusing on the core principles of **simplicity, reliability, and performance**, manufacturers and consumers will always have a single digital connection that meets all of their needs **wherever HD is consumed.**

Looking Ahead



evolve ahead of the market

simplicity, reliability, and performance

wherever HD is consumed

A New Era of Broadband Convergence



**Heightened
Viewing
Experience**

High-Definition Everywhere



Simplicity,
Ease of Use





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Broadband Convergence: 2009

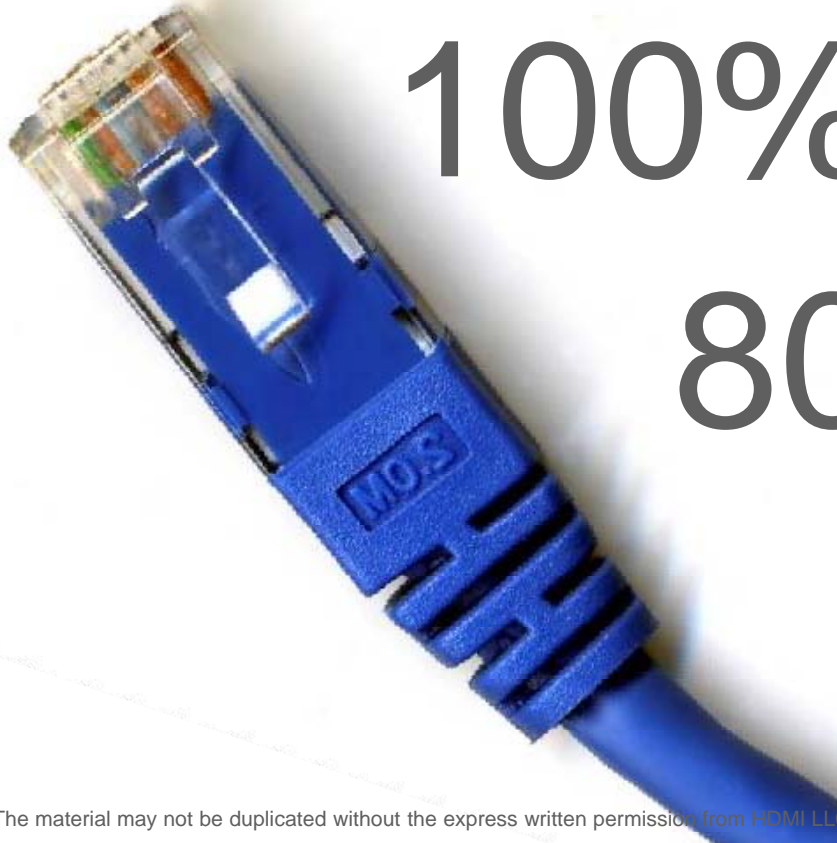
The Next Evolution in CE

24% of all **consumer electronic** devices will require Ethernet

100% of **game consoles** and **digital media adapters** will have network capabilities

80% of **Blu-ray** devices will have network capabilities

72% of **PVR/DVRs** will have network capabilities



HDMI Ethernet Channel

Consolidation of HD video, audio, and **data** in a single cable

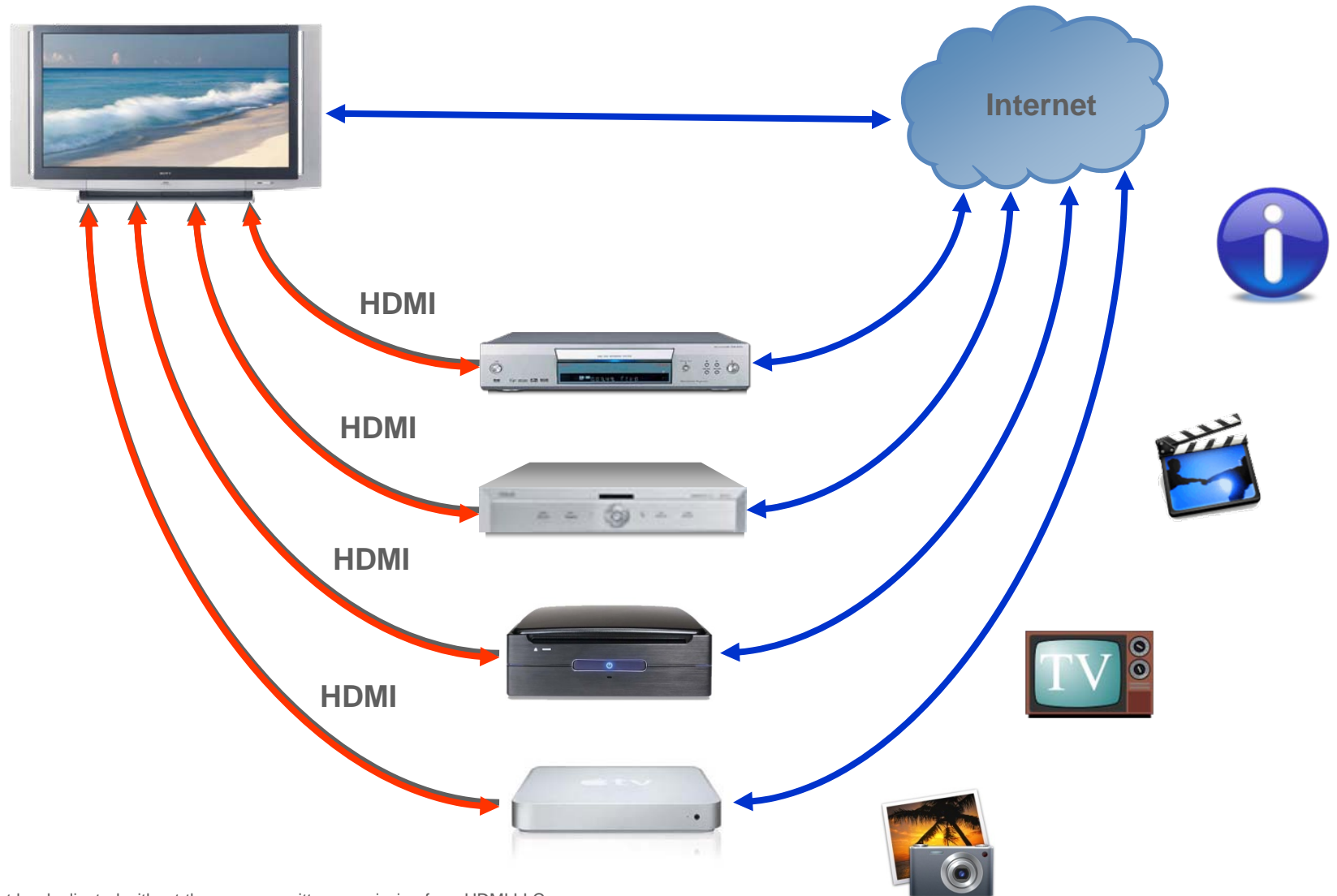
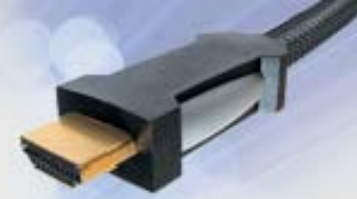
Enables high speed **bi-directional** communication

Enables **IP**-based applications over HDMI

Transfer speeds up to **100Mbps**

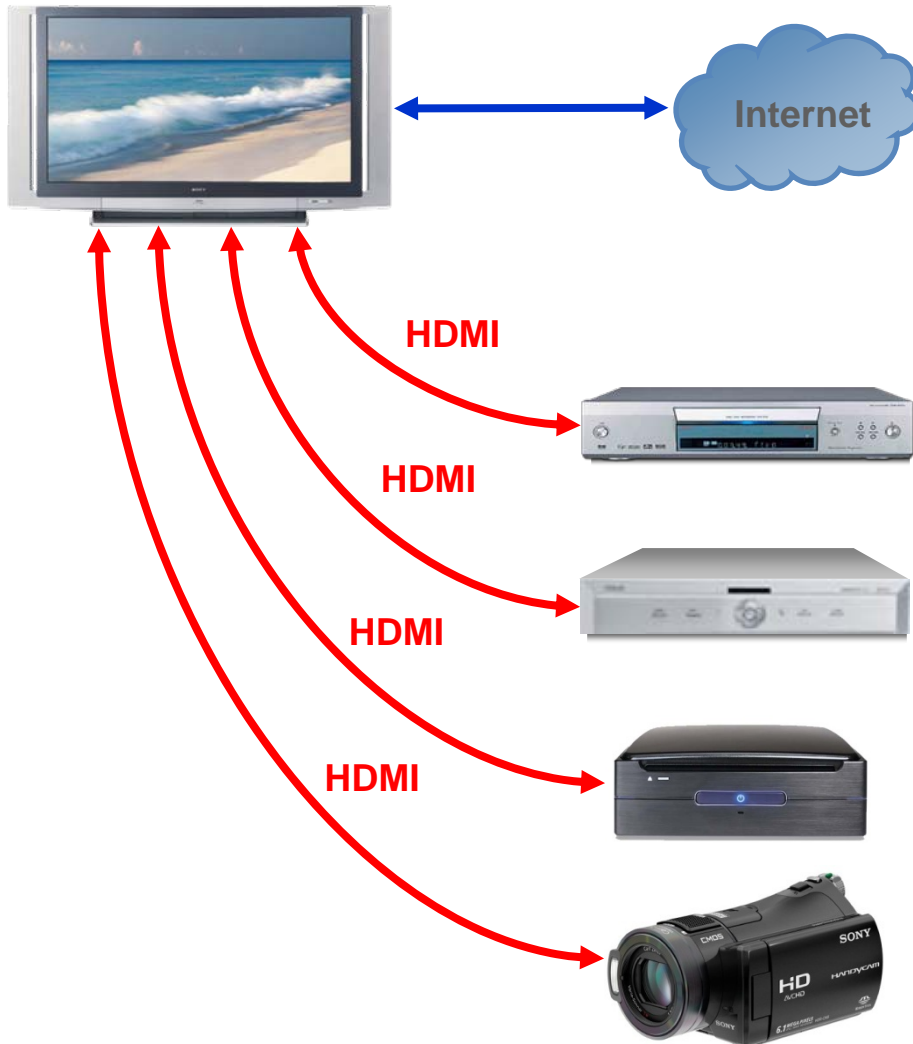


HDMI Ethernet Channel: Use Case



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HDMI Ethernet Channel: Use Case



Internet connection sharing
Device-to-device content distribution

Enables “recording” over HDMI

Enables current and future IP-based applications such as DLNA, UPnP, IPTV, LiquidHD™ and others

All over a **single HDMI cable**

HDMI 1.4 defines new cables:

Standard HDMI Cable with Ethernet
High Speed HDMI Cable with Ethernet

**Simplicity,
Ease of Use**



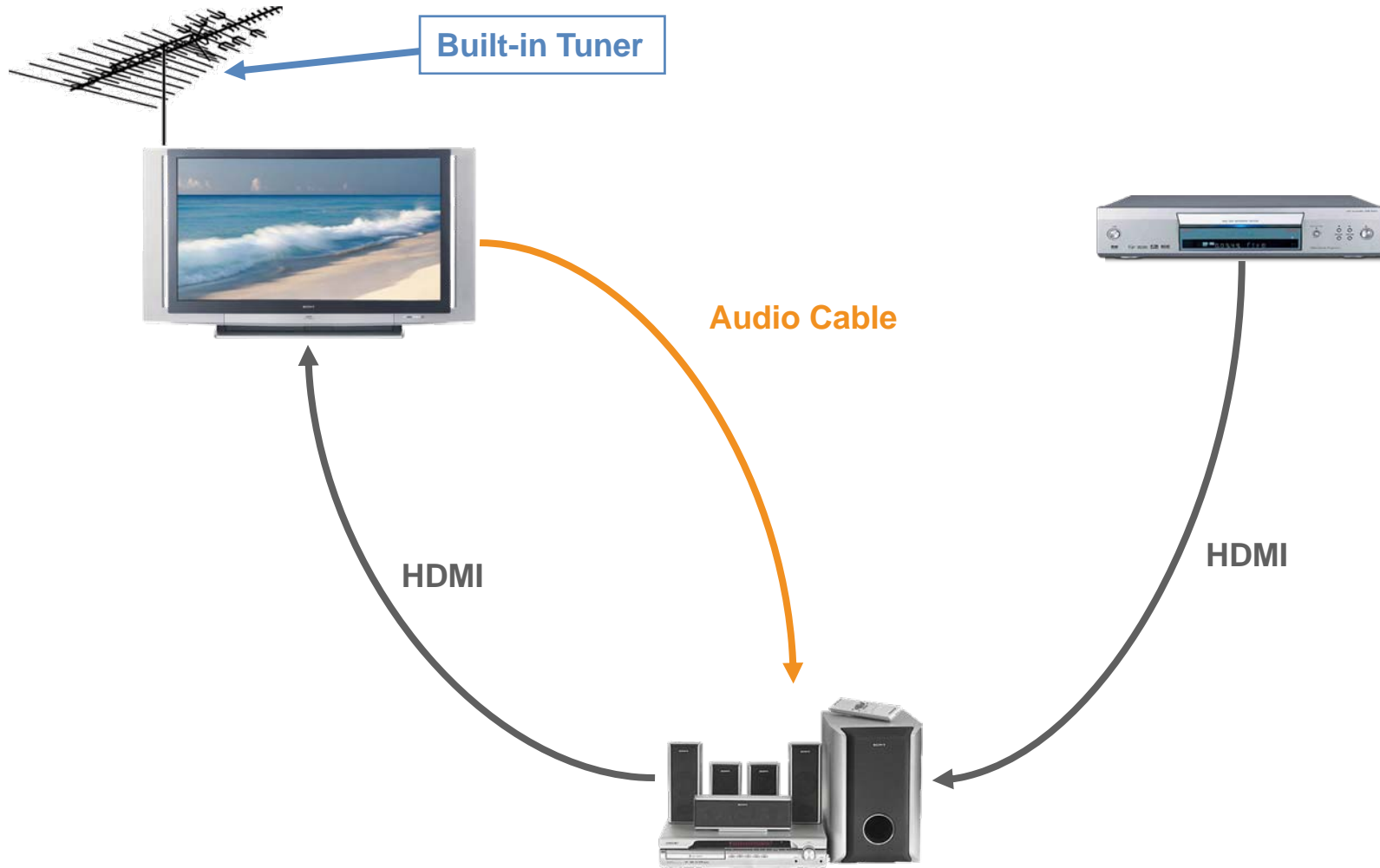
Adds an audio channel that enables “**upstream**” audio connections via HDMI

Simplifies the audio connection between the TV and Audio/Video Receiver

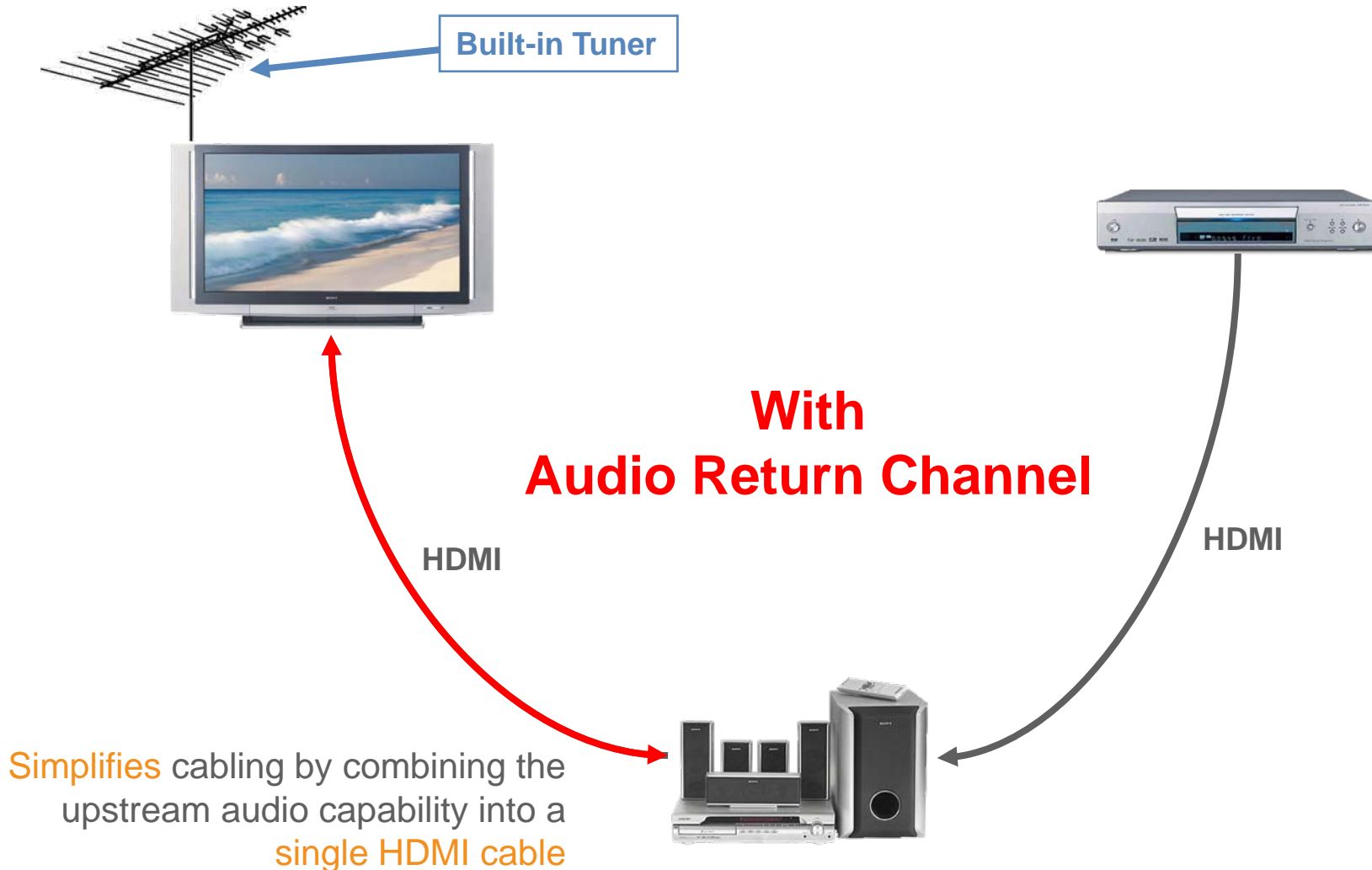
Helps **reduce** yet another cable within the home

Audio Return Channel

Audio Return Channel: Use Case



Audio Return Channel: Use Case



Simplifies cabling by combining the upstream audio capability into a single HDMI cable

Heightened Viewing Experience: 3D over HDMI



Defines **common** 3D formats and resolutions

3D support for up to **1080p** resolution

Supports many **3D techniques**:

Full side-by-side

Half side-by-side

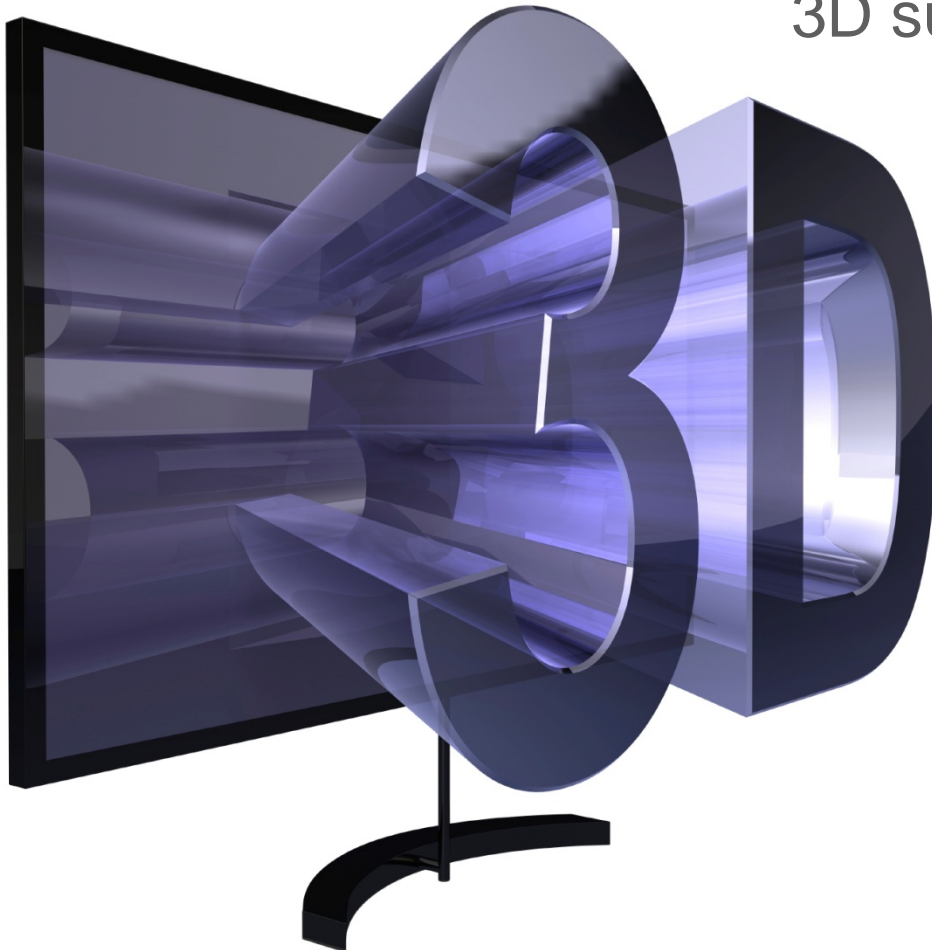
Frame alternative

Field alternative

Line alternative

Left + Depth

Left + Depth + Gfx + Gfx Depth



Heightened Viewing Experience: Support for 4K x 2K Resolution



Same resolution as many **state of the art** digital theaters

Up to **4 times** the resolution of 1080p

3840x2160 24Hz | 25Hz | 30Hz

4096x2160 24Hz

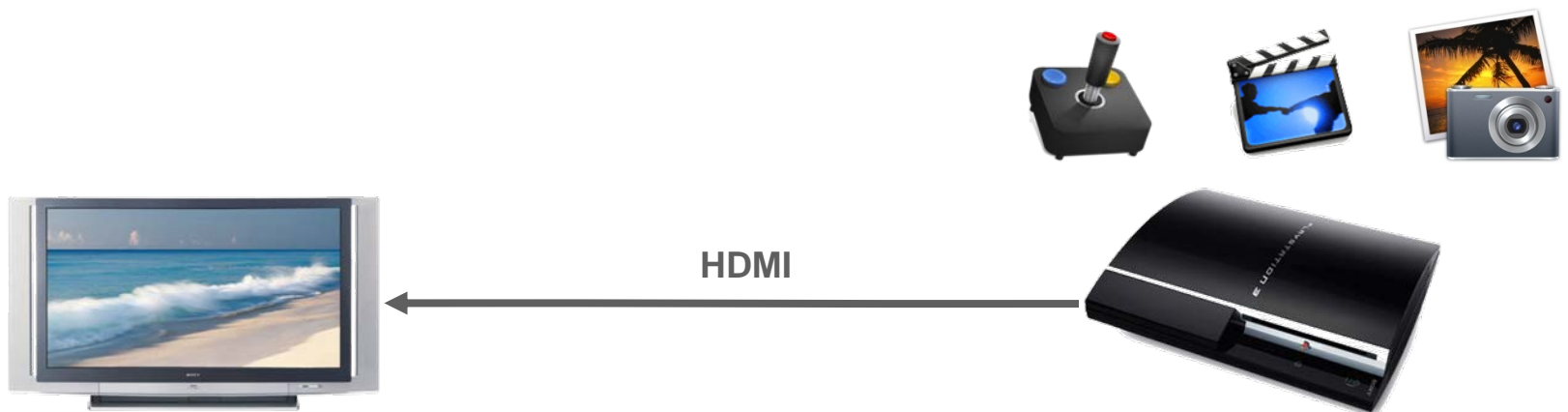


Heightened Viewing Experience: Real-Time Content Signaling



Enables **real-time signaling** of content types between display and source devices

Enables the TV to **optimize** picture settings based on content type



Enables **simple, automated** picture setting selection with no user intervention

Heightened Viewing Experience: Support for Additional Color Spaces



Supports digital still camera
(DSC) - specific color spaces

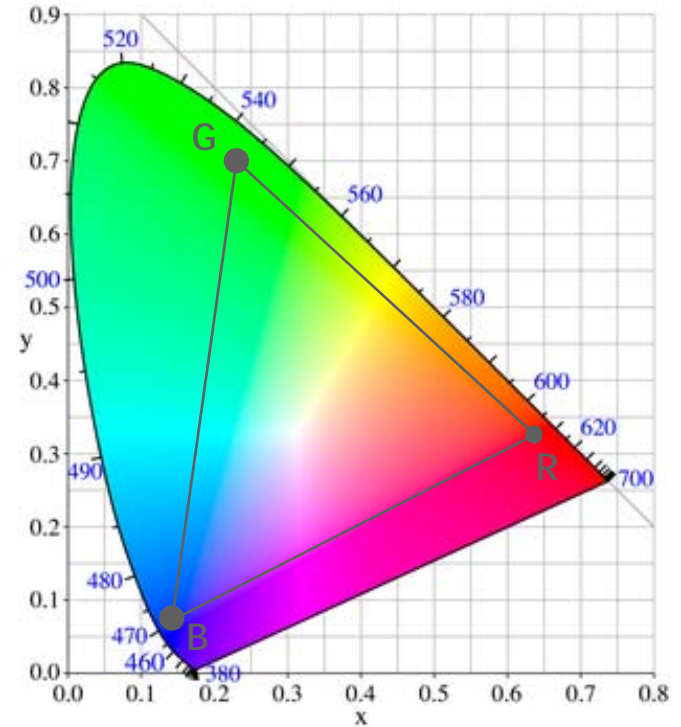
sYCC601

AdobeRGB

AdobeYCC601

Enables HDTV's to reproduce
the **rich, natural, lifelike** colors
from digital still cameras (DSC)

Enables **consistency** and
accuracy between DSCs and
HDTVs



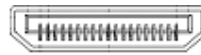
High-Definition Everywhere: Micro HDMI Connector



Smaller, portable devices are becoming sources of HD content.



Standard



Mini

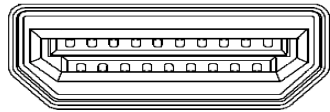


Micro

High-Definition Everywhere: Micro HDMI Connector



Smaller, portable devices are becoming sources of HD content.



Micro



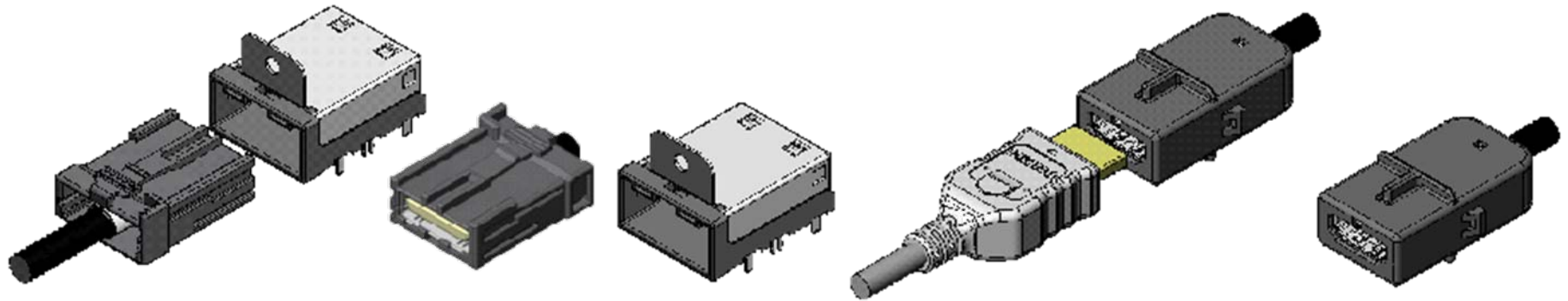
Significantly **smaller** connector for portable devices

Full **19-pin** design

Supports **same electrical performance** as the HDMI Standard & Mini connectors

Enables compact devices to have **all the benefits** of HDMI

High-Definition Everywhere: Automotive Connection System



An **Automotive Connection System** designed specifically for in-vehicle HD distribution

New **interlocking** connector for internal connections

A more **robust** connection specification to withstand the rigors of an automotive environment

vibrations, heat, noise, etc.

HDMI 1.4 Launch Timeline and Activities



HDMI 1.4 **Specification** was released to the public on June 5, 2009

Future press tours, including technology demonstrations of a selection of HDMI 1.4 enhancements, are planned for Munich on 10/13, Paris on 10/14 and London on 10/15, and US (TBD) in Q4, 2009

For more **information** on HDMI 1.4 please visit http://www.hdmi.org/manufacturers/hdmi_1_4.aspx

One Cable, One Standard

Simplicity | Reliability | Performance

Questions and Answers



Thank you!

Questions and Answers

One Cable, One Standard

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