

Apple TV4K TV+

The Good, the Bad, The Ugly

John Carter, June 2021

What's the Big Deal, anyway?

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Dolby Video

What's the Big Deal, anyway?

Dolby Video

Dolby Sound

The Basics

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Ultra HD is usually 3840 x 2160 resolution.

(The Apple TV4K1 is 4096 x 2160)

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4K is a resolution of 4096 x 3112.

(The Apple TV4K2 is 4096 x 2160)

The Basics

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Ultra HD is usually 3840 x 2160 resolution.

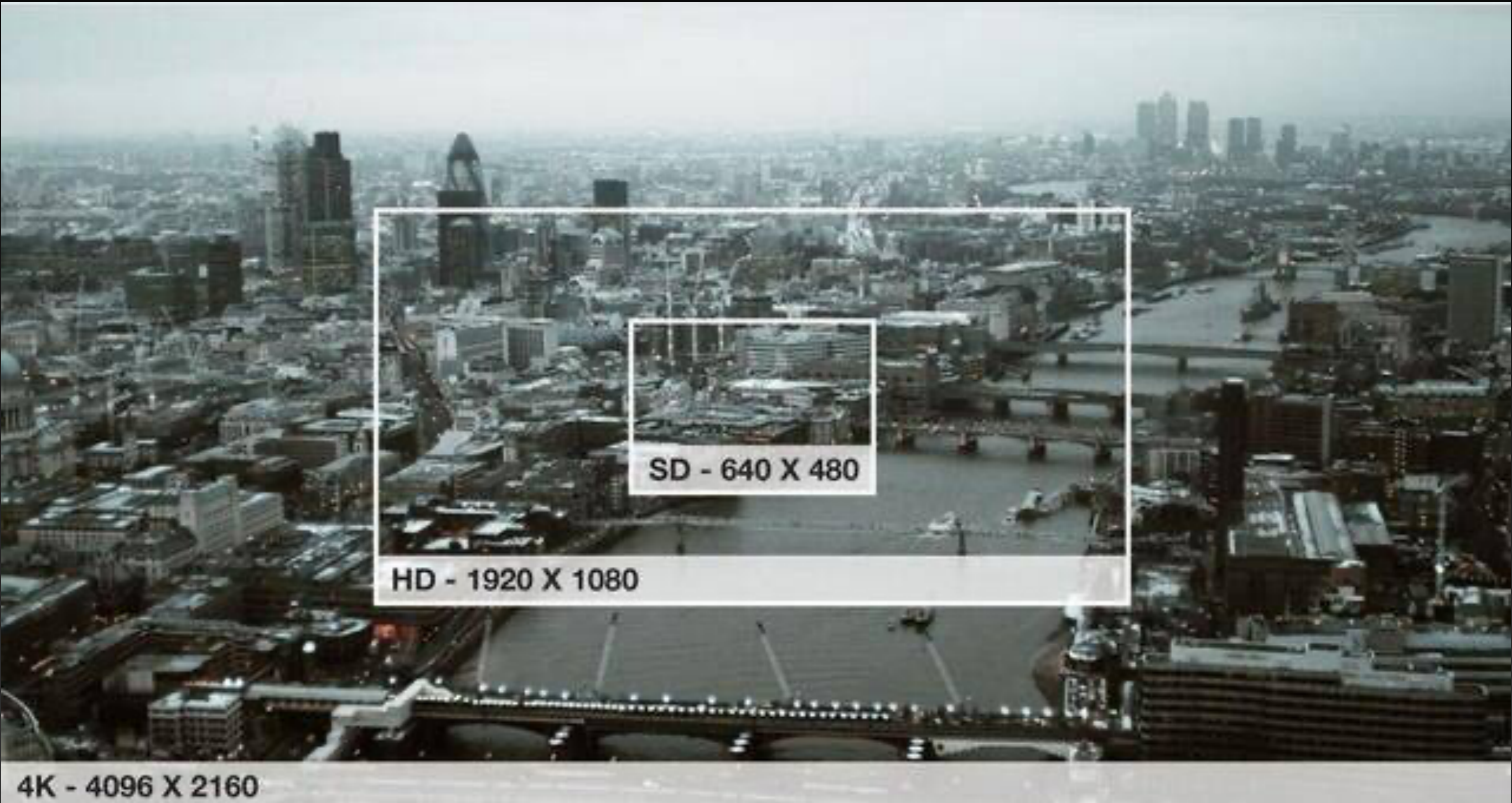
4K is a resolution of 4096 x 3112.

High Dynamic Range (HDR) - tonal quality

Tonal Quality



Resolution



SD - 640 X 480

HD - 1920 X 1080

4K - 4096 X 2160

Aspect Ratio

16:8.4375

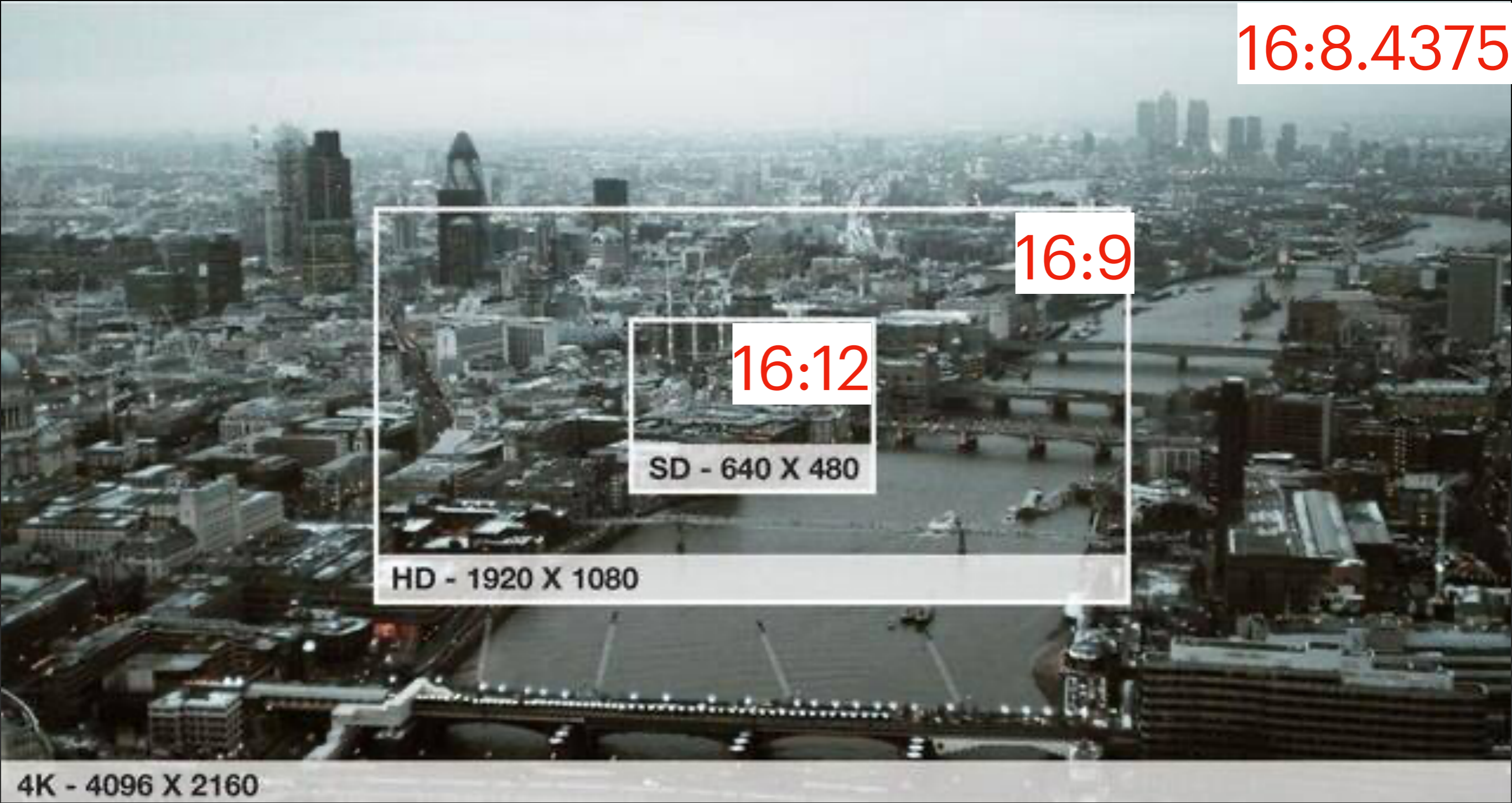
16:9

16:12

SD - 640 X 480

HD - 1920 X 1080

4K - 4096 X 2160



Widescreen Movies

16:8.4375

16:9

16:12

SD - 640 X 480

HD - 1920 X 1080

4K - 4096 X 2160

Widescreen movies made after 1970 are 2.39:1 or 16:6.6945

Apple TV

Comparison

TV4K2	TV4K1	TV4	TV3	TV2
2160p	2160p	1080p	1080p	720p

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HDR Dolby Video Dolby Sound	HDR Dolby Sound	HD	HD	STD

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HDR Dolby Video Dolby Sound	HDR Dolby Sound	HD	HD	STD
A12 32GB/64GB	A10X 32GB/64GB	A8 32GB	A5 8GB	A4 8GB

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2160p	2160p	720p 1080p	720p 1080p	720p
HDR Dolby Video Dolby Sound	HDR Dolby Sound	HD	HD	STD
A12 32GB/64GB	A10X 32GB/64GB	A8 32GB	A5 8GB	A4 8GB
\$179 \$199	From \$119	From \$118	From \$69.97	

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\$179 \$199	From \$119	From \$118	From \$69.97	From \$113

Identify Your Apple TV



Apple TV (1st generation)

Year introduced: 2007

Color: Silver

Capacity: 40 or 160 GB

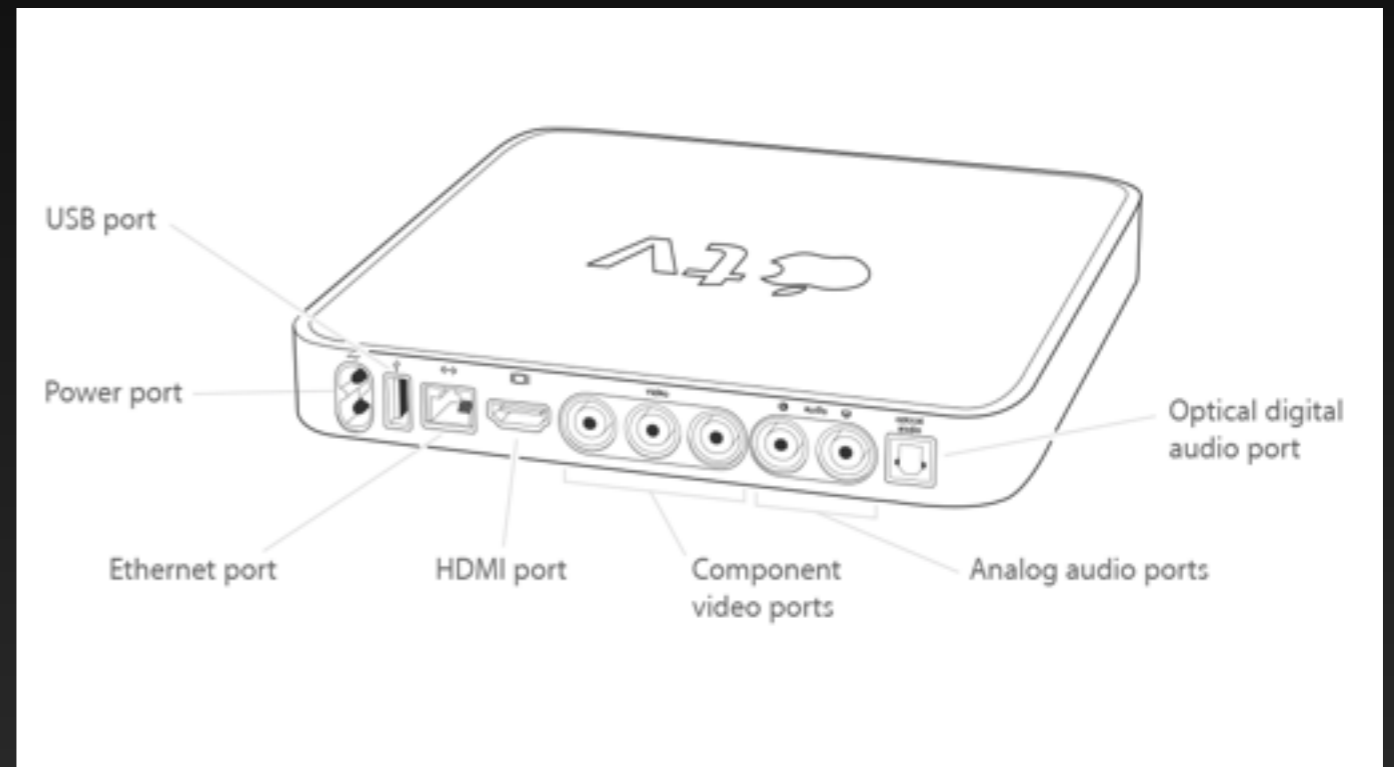
Model number: A1218

Apple Remote (white)

Identify Your Apple TV

Apple TV (1st generation)

- HDMI and component video (480p or 720p)
- 10/100BASE-T Ethernet
- Wi-Fi (802.11b/g/n)
- Optical and RCA stereo audio
- IR receiver
- USB 2.0 (for service and support)



Identify Your Apple TV



[Apple TV \(2nd generation\)](#)

Year introduced: 2010

Color: Black

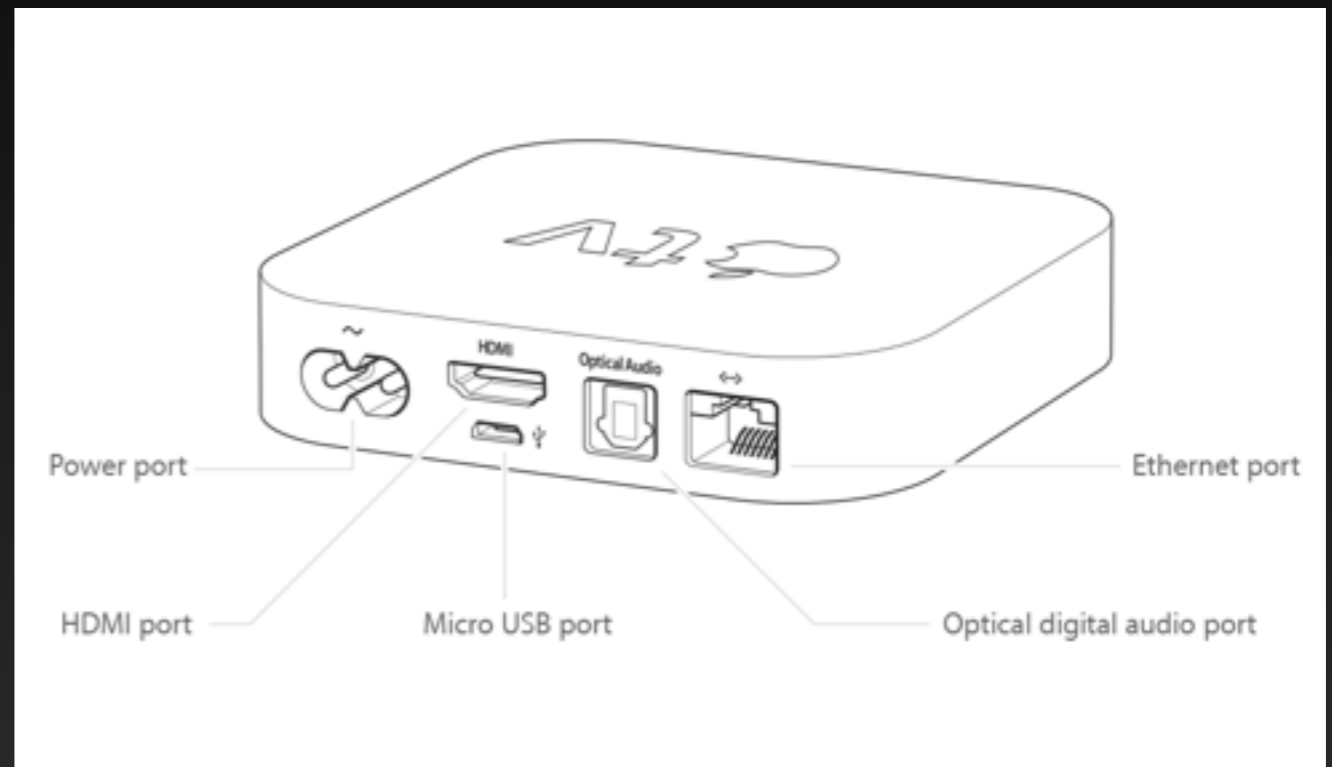
Model number: A1378

[Apple Remote \(aluminum\)](#)

Identify Your Apple TV

Apple TV (2nd generation)

- HDMI (720p)
- 10/100BASE-T Ethernet
- Wi-Fi (802.11a/b/g/n)
- Optical audio
- IR receiver
- Micro-USB (for service and support)



Identify Your Apple TV



[Apple TV \(3rd generation\)](#)

Year introduced: 2012

Color: Black

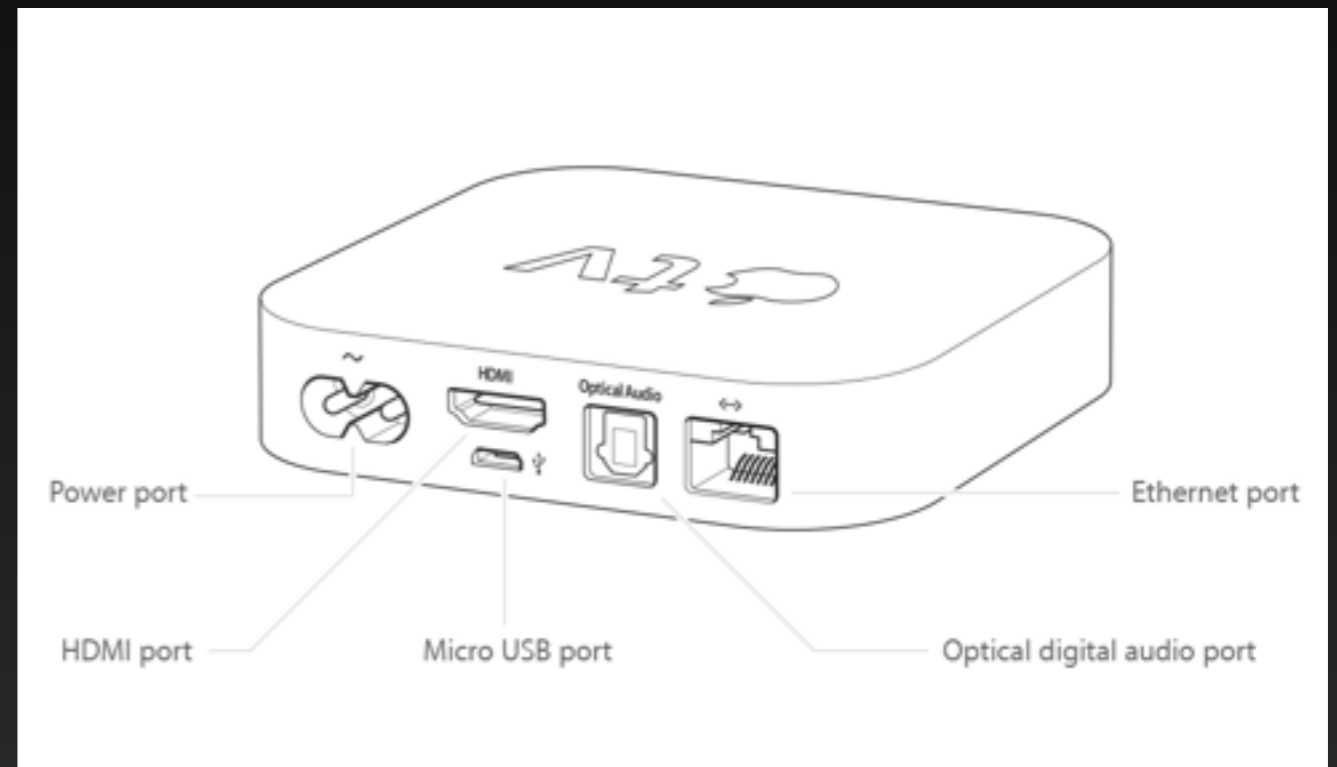
Model number: A1427 or A1469 for Rev A

[Apple Remote \(aluminum\)](#)

Identify Your Apple TV

Apple TV (3rd generation)

- HDMI (720p or 1080p)
- 10/100BASE-T Ethernet
- Wi-Fi (802.11 a/b/g/n)
- Optical audio
- IR receiver
- Micro-USB (for service and support)



Identify Your Apple TV



Apple TV HD

Previously Apple TV (4th generation)

Year introduced: 2015

Color: Black

Capacity: 32 GB or 64 GB

Model number: A1625

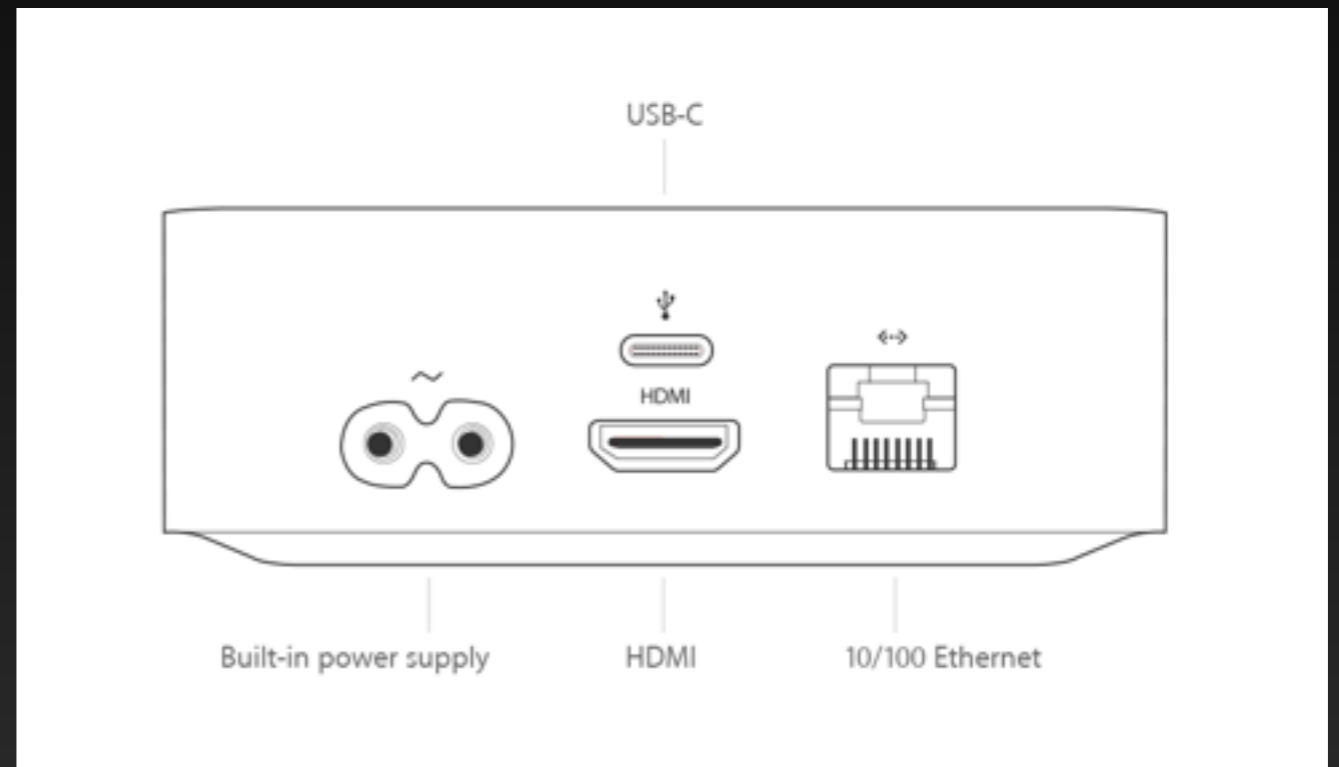
[Siri Remote \(1st generation\)](#) or [Apple TV](#)

[Remote \(1st generation\)](#) ^{1,2}

Identify Your Apple TV

Apple TV (4th generation)

- HDMI 1.4 (720p or 1080p)
- 10/100BASE-T Ethernet
- Wi-Fi (802.11 a/b/g/n/ac with MIMO)
- Bluetooth 4.0 wireless technology
- IR receiver
- USB-C (for service and support)
- Built-in power supply



Identify Your Apple TV



Apple TV 4K (1st generation)

Year introduced: 2017

Color: Black

Capacity: 32 GB or 64 GB

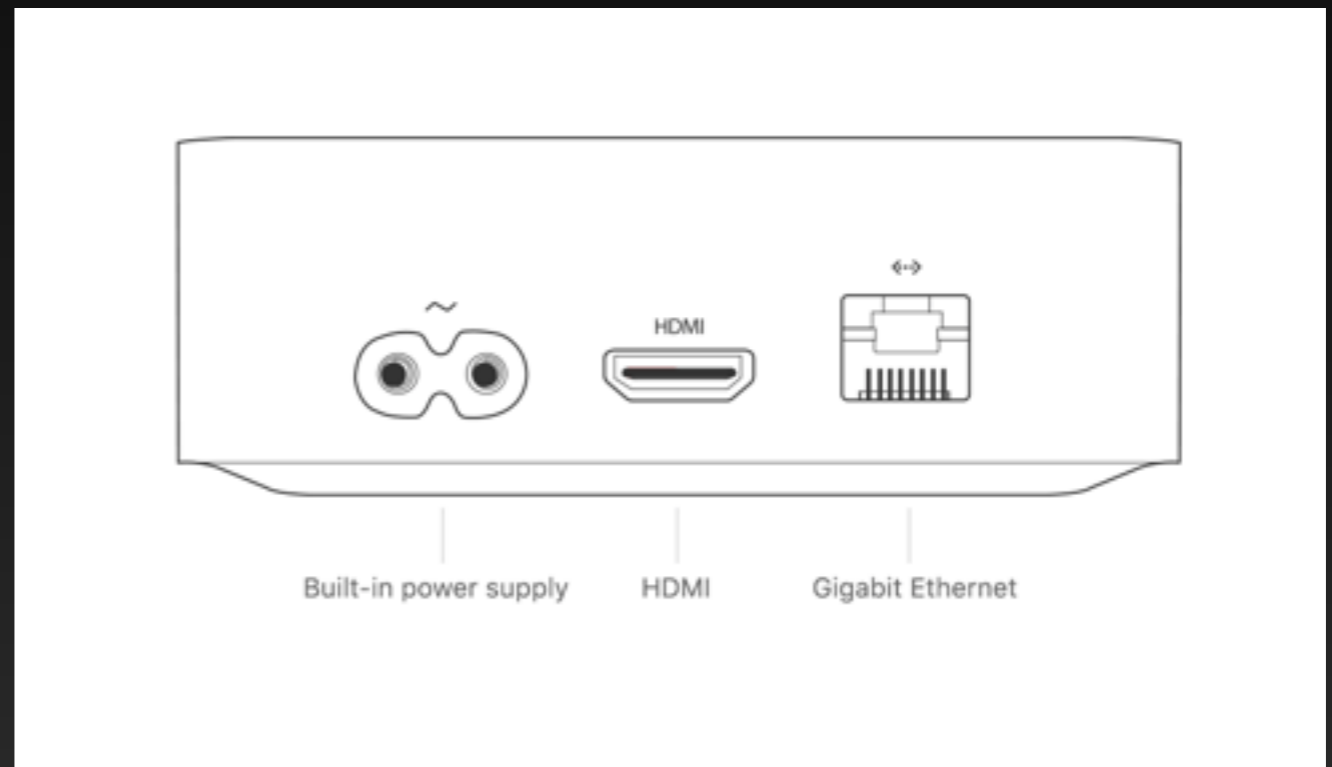
Model number: A1842

[Siri Remote \(1st generation\)](#) or [Apple TV Remote \(1st generation\)](#)¹

Identify Your Apple TV

Apple TV 4K (1st generation)

- HDMI 2.0 (2160p, Dolby Vision, and HDR10)
- Gigabit Ethernet
- 802.11ac Wi-Fi with MIMO; simultaneous dual band (2.4GHz and 5GHz)
- Bluetooth 5.0 wireless technology
- IR receiver



Identify Your Apple TV



[Apple TV 4K \(2nd generation\)](#)

Year introduced: 2021

Color: Black

Capacity: 32 GB or 64 GB

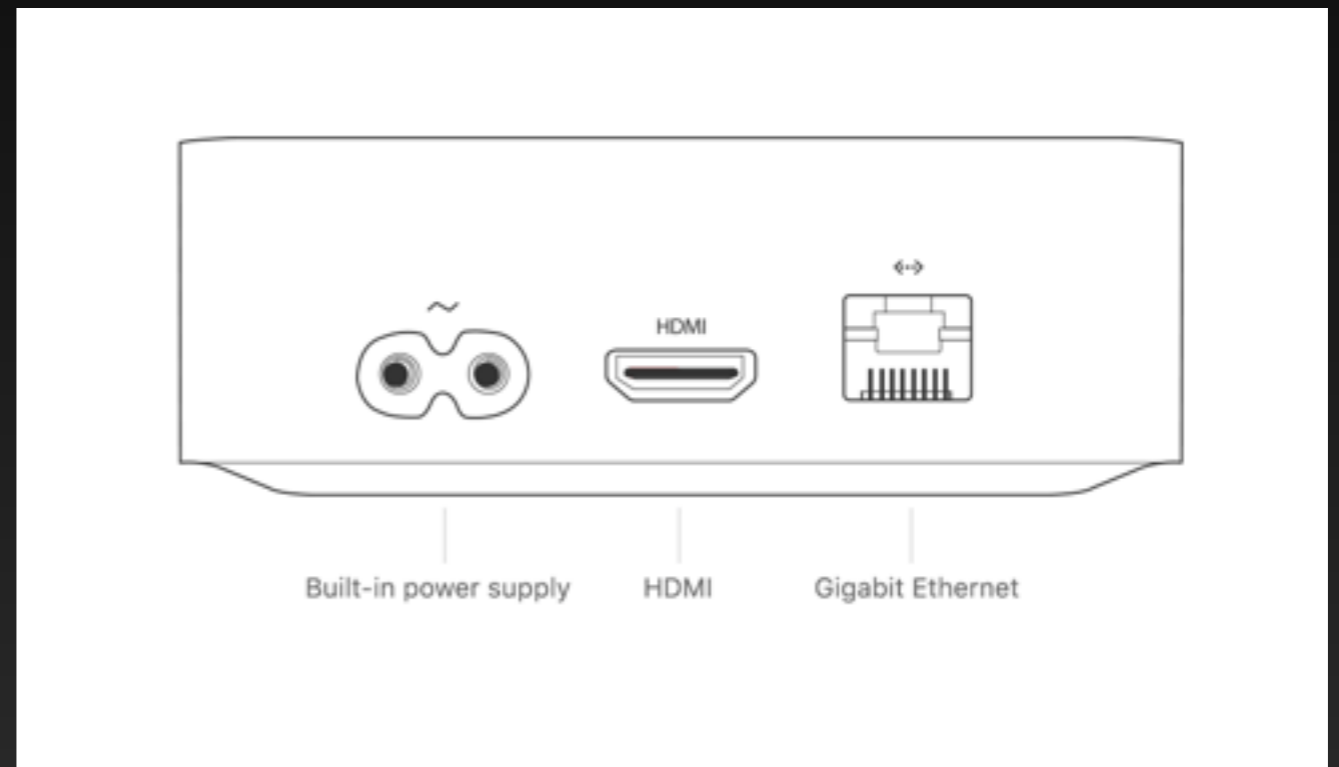
Model number: A2169

[Siri Remote \(2nd generation\)](#) or [Apple TV Remote \(2nd generation\)](#)¹

Identify Your Apple TV

Apple TV 4K (2nd generation)

- HDMI 2.1 (up to 4K60 HDR10 and Dolby Vision video output, 2160p)
- Gigabit Ethernet
- 802.11ax Wi-Fi 6 with MIMO; simultaneous dual band (2.4GHz and 5GHz)
- Bluetooth 5.0 wireless technology
- Thread
- IR receiver



Identify Your Apple TV

About

Name John's Apple TV

Model A2169

Serial Number X03X01XXX2XX

tvOS 14.5

Resolution 1080p HD - 59.94Hz YCbCr 4:4:4

Wi-Fi Network Name WiFi

IP Address 00.00.00.00.00.00

Wi-Fi Address x0:00:xx:00:00:0x

Signal Strength ●●●●●

Apple TV+

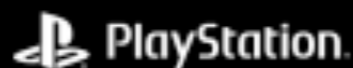
(service)



Watch Apple TV+ here or anywhere.

Find Apple TV+ on the Apple TV app, available on Apple devices and more.

[See all supported devices >](#)



SAMSUNG
Smart TV

LG SMART TV

VIZIO

SONY

Drama

Comedy

Feature Films

Nonfiction

Trying: Season 2

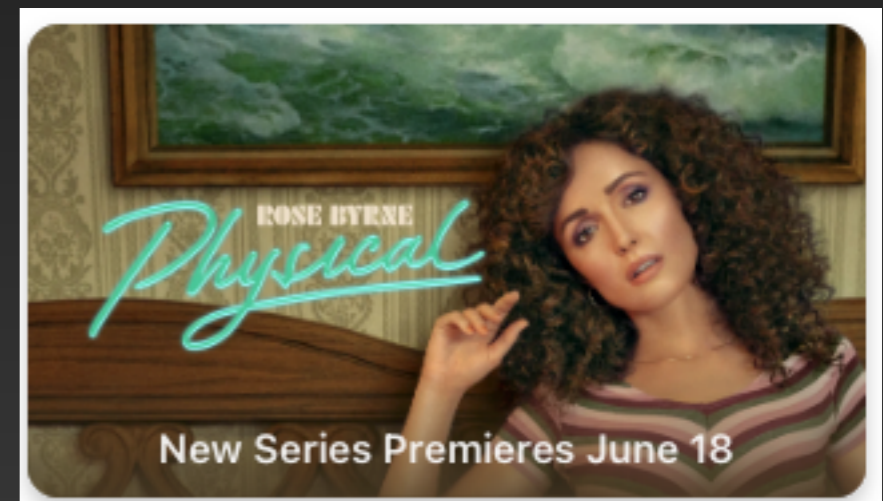
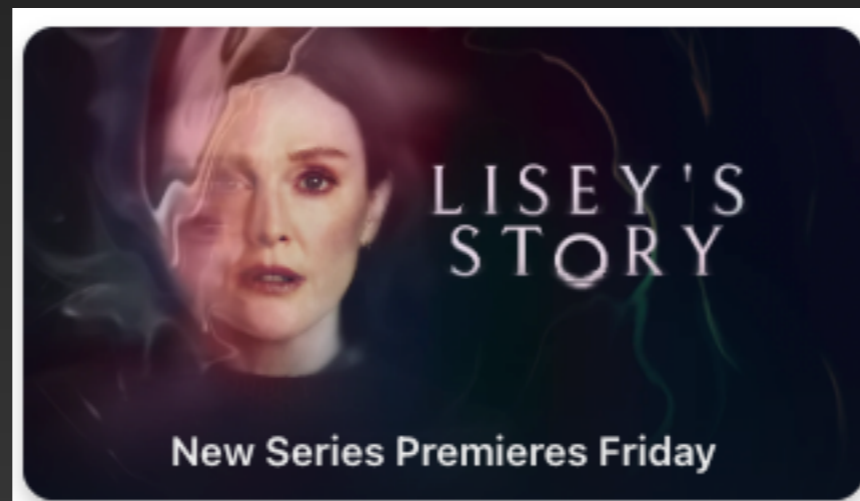
The Me You Can't See

Family fun

Coming Soon



\$4.99/mo



The Hidden Cost

Dolby Compatible Devices

Dolby TV's:

Sony X900H 65"
Class HDR 4K UHD
Smart LED TV

\$1398.00



Dolby Compatible Devices

Dolby TV's:

TCL 65-inch 6-Series 4K UHD
Dolby Vision HDR
QLED Roku Smart
TV - 65R635, 2021
Model

\$1099.99

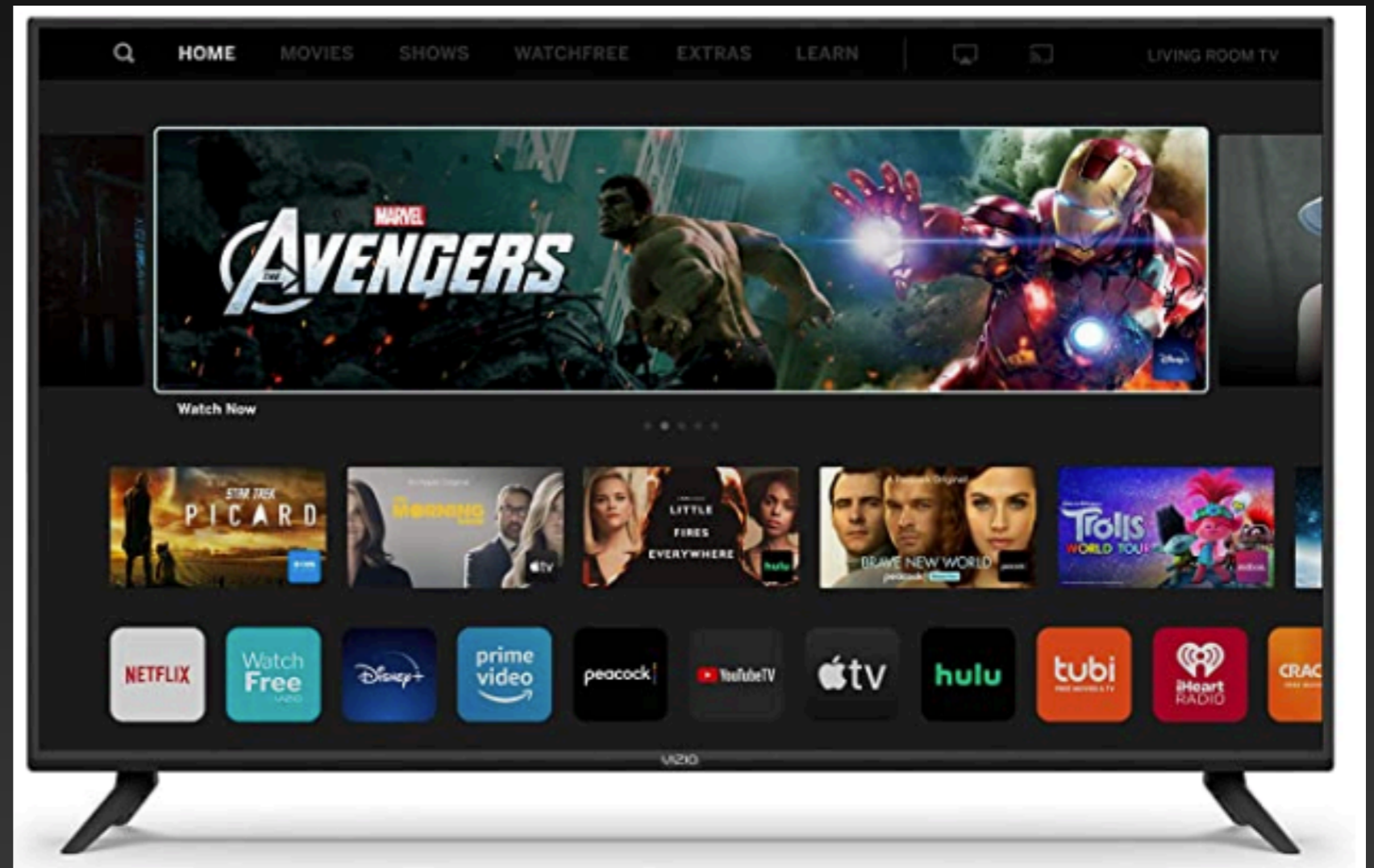


Dolby Compatible Devices

Dolby TV's:

VIZIO 65-Inch V-Series 4K UHD LED HDR Smart TV with Apple AirPlay and Chromecast Built-in, Dolby Vision, HDR10+, HDMI 2.1, (V655-H19)

\$740.00



Dolby Compatible Devices

Dolby AV Systems

Sony STR-DH790 7.2-ch Surround Sound Home Theater AV Receiver: 4K HDR, Dolby Atmos & Bluetooth
\$448.00



**(And don't forget to upgrade
the HDMI cables)**

Alternatives to Apple TV4K

Roku Ultra

4K HDR Streaming

Voice control

\$88.99 (Amazon)

Apple M1 Mac

Direct connect with HDMI 2.0

(Airplay won't work with 4K HDR)

Any 4K HDR Smart TV

Resolutions	Required Bandwidth	
	H264	H265
1280×720(HD)	3Mbps	1.5Mbps
1920X1080(FHD)	6Mbps	3Mbps
3840×2160 (UHD)	25Mbps	12Mbps
4096×2160 (4K)	32Mbps	15Mbps

References

4K30 vs 4K60 and other HDMI tidbits

<https://juicedsystems.com/blogs/news/4k30-vs-4k60>

Apple TV Generations comparison

<https://socialcompare.com/en/comparison/apple-tv-generation-comparison>

Apple TV+: Everything you need to know!

<https://www.imore.com/apples-tv-plus-faq>

Internet Bandwidth

<https://www.synopi.com/bandwidth-required-for-hd-fhd-4k-video/>

THE END

