

Blu Ray vs. HD-DVD



Notes from a discussion sponsored by
the Center for Digital Strategies at the Tuck School of Business



Blu-Ray	HD-DVD
<p>Corporate support: Sony, Panasonic, Apple, Dell</p> <p>Studio support: <u>Exclusive</u> 20th Century Fox, Disney, Lions Gate, MGM, Sony Pictures</p> <p><u>Non-exclusive</u> Warner Bros</p> <p>Media supported: Blu-ray, DVD (recommended)</p> <p>Price point: Movies: \$34.99~\$24.99 Players: \$1799.99~\$999.99 Media: 2x 25GB \$19.99 Playstation 3: \$499</p> <p>Current # of Title: 76</p>	<p>Corporate support: Toshiba, NEC, Microsoft, Intel, Sanyo</p> <p>Studio support: <u>Exclusive:</u> Universal, Weinstein Company</p> <p><u>Non-exclusive:</u> Paramount Pictures, Warner Bros., New Line, HBO, DreamWorks, Image Entertainment, Magnolia Pictures, Brentwood Home Video, Warner Music Group, Ryko, Goldhil Entertainment, and Studio Canal</p> <p>Media supported: HD-DVD, DVD, and both</p> <p>Price point: Movies: \$34.99 ~ \$21.99 Players: \$374.99 ~ \$499 Media: DVD-RW etc Xbox 360: \$299 + \$199</p> <p>Current # of Titles: 85</p>

Tech Specs

Disc	Blu Ray	HD DVD ROM	DVD ROM
Laser wavelength	405 Nanometers	405 Nanometers	650 Nanometers
Storage capacity dual layer	50 GB	30 GB	8.5 GB
Storage capacity single layer	25 GB	15 GB	4.7 GB
Video codecs	MPEG-2, H.264/AVC, and SMPTE VC-1	AVC MPEG-4/VC-1/MPEG-2	MPEG-2
Audio codecs lossless (mandatory)	Linear PCM/MLP(TRUE HD)[2-ch]	Linear PCM/MLP(TRUE HD)[2-ch]	Linear PCM[2ch]
Audio codecs lossless (optional)	Dolby TrueHD and DTS HD	DTS HD (lossless)	EMPTY
Audio codecs lossy (mandatory)	Dolby Digital AC-3, DTS, and linear PCM (up to 7.1 channels)	Dolby Digital Plus/DTS/Dolby Digital/MPEG Audio	Dolby Digital/MPEG Audio (Europe)
Maximum data transfer rate	54 Mbit/s	36.55 Mbit/s	11.08 Mbit/s
Content protection system	BD+	Advanced Access Content System (AACS-128bit)	CSS 40-bit
Video systems	1920x1080 50/60 HDTV	1920x1080 50/60 HDTV	720x480 and 720x576 50/60 SDTV

Source: wikipedia.org, blu-ray.com