System Requirements and Format Support

PowerDVD 16 Ultra & Live

The system requirements for CyberLink PowerDVD vary depending on the movie content you are watching.

Operating System

- Microsoft Windows 10, 8.1/8, 7

Processor (CPU)

Blu-ray Disc, DVD, and TrueTheater 3D Playback

- Blu-ray Disc playback: Intel Core 2 Duo E6750 (2.66GHz), AMD Phenom 9450 (2.10GHz) or above
- Blu-ray 3D playback: Intel Core i5, AMD Phenom II X4 or above
- TrueTheater HD and TrueTheater 3D for Blu-ray and HD video: Intel Core i5 (4 cores), AMD Phenom II X6 or above
- DVD playback: Pentium 4 (2.4 GHz), Athlon 64 2800+ (1.8 GHz), AMD Fusion E-series & C-series or above
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    4K UltraHD with Hardware Acceleration
- H.264/AVC: 3rd Generation Intel Core i5 (IvyBridge) or above
- H.265/HEVC (8bits): 4th Generation Intel Core i5 (Haswell Refresh) or above
- *Note: PowerDVD supports 4K UltraHD video in H.264 / MP4 format at bitrates up to 60 Mbps*

Graphics Processor (GPU)

Blu-ray Disc, DVD, and TrueTheater HD/3D Playback

- Intel HD Graphics, ATI Radeon HD 5000, NVIDIA GeForce 9500GT or above
- *Note: We strongly recommend that you update your graphics card driver to the latest version. 3D display devices are required for TrueTheater 3D playback.*

Blu-ray 3D Playback

- Intel HD Graphic (Intel Core i5), NVIDIA GeForce GTX 400 series and GeForce GT 240/320/330/340, AMD Radeon HD 6000 and 6000M series with UVD 3 support

DVD Playback

- PCI Express graphic accelerator supporting DirectX 9.0 or above

Memory

- Blu-ray Disc playback: 2 GB required for Windows 10, 8.1/8 and 7
- DVD and TrueTheater 3D playback: 1 GB required for Windows 10, 8.1/8 and 7
- Blu-ray 3D with or without Hardware Acceleration: 2GB

Screen Resolution

- For PC Mode: 1024 x 768 and above recommended
- For TV Mode: 1366 x 768 and above with 16:9 aspect ratio recommended
- *Note: When playing video on displays larger than Quad HD+ (or any file greater than 3200 x 1800 resolution), PowerDVD enters a high performance mode that disables some non-essential playback features. In this mode the following features will be unavailable:*
- *- Video rotation*
- *- Zoom in/out*
- *- Dual subtitle display*
- *- Subtitle customization for font, color and size*

Hard Disk Space

- 500 MB for product installation

Display Device

Blu-ray Disc, DVD, and TrueTheater 3D Playback

- For Blu-ray titles with AACS and DVD titles with CPRM playback, PowerDVD only allows output to display devices using DVI, HDMI and DisplayPort connector in order to be compliant with copy protection (HDCP).
- For other DVD and Blu-ray Disc playback: HDCP compliant display for digital output. TV or computer monitor for analog output
- TrueTheater 3D playback: 3D display and 3D glasses required.
Blu-ray 3D with or without Hardware Acceleration
- 3D display and 3D glasses are required (NVIDIA 3D Vision, 3D Ready HDTV, HDMI 1.4-enabled TV, Micro-polarizer LCD or Anaglyph Red/Cyan Glasses). HDCP compliant display for digital output

Disc Player

o Blu-ray Disc playback: BD-ROM/BD-RE or Super Multi Blu combo disc drive
o DVD and TrueTheater 3D playback: DVD-ROM, DVD+-R/RW, DVD-RAM or DVD Super Multi combo disc drive

360° Video Specifications

o PowerDVD Ultra/Live supports playback of 360° videos on a normal 2D display; a mouse is required to drag on the video to change the view angle.
o The video can be encoded in MP4 format, while the video codec should be either H.264/AVC or H.265/HEVC. We recommend an aspect ratio of 2:1, and the projection format to be equirectangular.

Internet Connection

• Internet connection required for initial software activation, social media connection and some codec activation.

Language Support

o English
o French
o German
o Italian
o Spanish (European)
o Chinese Simplified
o Chinese Traditional
o Japanese
o Korean
o Russian
o Portuguese

Format Support

File Support

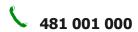| Media Type	Formats Supported
Movies	BD-R 1.1/BD-RE 2.1, BD-R 2.0/BD-RE 3.0, BDROM 2.2, BD-J, BDROM Profile 1.1 (Bonus View), BDROM Profile 2.0 (BD-Live), BDROM Profile 5.0 (BD 3D), AVCREC, AVCHD XAVC-S, DVD-Video, DVD-VR, DVD+VR, VCPS, VCD, SVCD, CD, BD ISO, DVD ISO
Videos	**Conventional Video:** 265, 264, 26L, 3G2, 3GP, 3GP2, 3GPP, ASF, AVC, AVI, BSF, DAT, DIV, DIVX, DVR-MS, FLV[1], H.265, H.264, HEVC, JSV, JVT, M1V, M2P, M2T, M2TS, M2V, M4V, MK3D, MKV, MOD, MOV[1], MP4, MP4V, MPE, MPEG, MPG, MPV, MTS, MVC, QT, TOD, TP, TPD, TRP, TS, TTS, VC1, VOB, VRO, WM, WMV, WTV[2] **360° Video:** Equirectangular format MP4 (H.264/265). Supports up to 4K resolution in 2:1 aspect ratio.
Photos	BMP, JPEG, JPG, PNG, TIF, TIFF, MPO[3], JPS, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MEF, MRW, NEF, ORF, PEF, RAF, RAW, RW2, SR2, SRF, X3F
Audio	AAC[4], AC3, ADTS[4], ALAC, APE, AOB, DTS, FLAC[5], DSD Audio (DSF, DFF), M4A, MID, MKA, MP2, MP3, MPA, OGG, RMI, WAV, WMA
Subtitles	**External (text):** SubRip (.SRT), PowerDivX (.PSB), MicroDVD (.SUB), SubViewer (.SUB), SubStation Alpha (.SSA, .ASS), SAMI (*.SMI) **External (image):** VobSub (.sub+.idx) **Embedded:** MKV: SSA, ASS, SRT, PGS (Compressed PGS, Uncompressed PGS), VobSub MP4: VobSub, Embedded-Timed Text (MPEG4 PART-17)

[1]Only supports FLV/MOV files encoded with H.264 codec
[2]Only supported in Windows 7 with OEM TV Feature Pack
[3]Only supports 3D MPO files
[4]ADTS and AAC require windows 7 or above
[5]Music files only

Extract Audio from Video

Media Type	Formats Supported
Videos	ASF, AVI, DIVX, MOV (H.264), DAT, M2T, VRO, MKV, FLV, MVC, MP4, WMV,DVR-MS, MOD, MPEG, MPG, TOD, VOB, MTS, M2TS, WTV

* The audio format of source video should be AAC, PCM, LPCM, MPEG1, MPEG2, MP3, WMA, AC3, FLAC, APE, ALAC, VORBIS, DTS

* The audio extracted from video will be 2 channels if the source audio more than 2 channels.

* If the source videos have multiple tracks, then the first track would be extracted.

CyberLink Cloud Transcoding Support

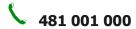| Media Type	Formats Supported
Videos	ASF, AVI, DIVX, MOV (H.264), DAT, M2T, VRO, MKV, FLV, MVC, MP4, WMV,DVR-MS, MOD, MPEG, MPG, TOD, VOB, MTS, M2TS, WTV
Photos	JPG, JPEG, MPO, JPS, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MEF, MRW, NEF, ORF, PEF, RAF, RAW, RW2, SR2, SRF, X3F
Audio	MP3, WMV, WAV, MP4, M4A (AAC, ALAC Codec), FLAC, OGG, APE

Minimum System Requirements for Transcoding Files before Upload

- Processor (CPU): Intel® Core2 Duo CPU 4500 @ 2.20GHz
- RAM: 2GB

CyberLink Cloud Video Streaming

Media Type	Formats Supported
Videos	MP4, MKV, MPG. M2TS, MTS, TS

* For other video format, not support streaming playback. Need to download the video in advance, and then play the cache file.

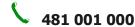# Media Casting to Streaming Device

Supported Devices

- Roku®
- Chromecast™
- Apple TV®

Media Type	Formats Supported
Videos	3G2, 3GP, 3GP2, 3GPP, ASF, AVI, DAT, DIV, DIVX, DVR-MS, FLV, M2P, M2T, M2TS, M4V, MKV, MOD, MOV (H.264), MP4, MP4V, MPE, MPEG, MPG, MPV, MTS, MVC, QT, TOD, TP, TPD, TRP, TS, TTS, VOB, VRO, WM, WMV, WTV *(* Supports H.265 video in MKV, MP4, M2TS)*
Photos	JPG, JPEG, MPO, JPS, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MEF, MRW, NEF, ORF, PEF, RAF, RAW, RW2, SR2, SRF, X3F, BMP, PNG, TIF, TIFF
Audio	MP3, WAV, M4A(AAC, ALAC Codec), FLAC, OGG, APE
Subtitle	**External Subtitle (TEXT):** SubRip (.SRT), PowerDivX (.PSB), MicroDVD (.SUB), SubViewer (.SUB), SubStation Alpha (.SSA, .ASS), SAMI (*.SMI) (Embedded subtitle in video is not supported.)

Media Transcoding for Casting

- Video will be transcoded to H.264/AAC/M2TS via HTTP Live Streaming
- Transcoding is required if any of the below conditions apply:
  - The video format is not coded in H.264 in MKV/MP4
  - TrueTheater video enhancements are applied
  - The bitrate of the video is larger than the decoding capability of the target streaming device.
- Audio will be to AAC
- Photos will be transcoded to JPG

Minimum System Requirements for Video Casting to Device in HD Quality

- CPU: Intel HD Graphics with Intel 2th Generation (SandyBridge) Core i3 or above.
- RAM: 2GB

DLNA Specifications

- **PowerDVD Ultra** -
  - **Digital Media Server (DMS)** to store content for sharing with other DLNA players and receivers
  - **Digital Media Player (DMP)** for playback of media stored on Digital Media Server (DMS) on local network
  - **Digital Media Controller (DMC)** to find content on Digital Media Servers for playback on Digital Media Receivers (DMR)
  - **Digital Media Receiver (DMR)** for playback of content received from a Digital Media Controller

Media Type	Formats Supported
Videos	3G2, 3GP, 3GP2, 3GPP, ASF, AVI, DAT, DIV, DIVX, DVR-MS, FLV, M2P, M2T, M2TS, M4V, MKV, MOD, MOV (H.264), MP4, MP4V, MPE, MPEG, MPG, MPV, MTS, QT, TOD, TP, TPD, TRP, TS, TTS, VOB, VRO, WM, WMV, WTV
Photos	BMP, JPEG, JPG, PNG

Audio	LPCM, M4A(AAC codec), MKA, MP2, MP3, MPA, WAV, WMA

- **Power Media Player** - *Share To*, *Stream From*, *Play To* and *Play From* compatibility:
  - **Share To (DMS):** Share media content from mobile devices with PowerDVD Ultra or Power Media Player
    - iOS (iPhone/ iPod Touch/ iPad): Share iTunes synced music, photos and video in the camera roll, photos and videos synced in the photo tab. Videos and podcasts synced with iTunes are not supported in Power Media Player
  - **Stream From (DMP):** Browse and playback the media library content from PowerDVD Ultra and Power Media Player
    - iOS: Streamed video from PowerDVD Ultra will be transcoded to MOV(H.264) format
    - Android: Streamed video from PowerDVD Ultra will be transcoded to MP4(H.264) format
  - **Play To (DMC):** Play media on Power Media Player to PowerDVD Ultra or other devices with Power Media Player
  - **Play From (DMR):** Allowing PowerDVD Ultra or Power Media Player to play media to devices with Power Media Player

Hardware Support for Blu-ray™ 3D and TrueTheater™ 3D

Stereoscopic 3D technologies require additional hardware to view 3D movie content:
- HDMI 1.4 enabled 3DTV
  - **Eye wear:** Active shutter glasses
  - **Supported Hardware:** HDMI 1.4 enabled 3D TV
  - **Supported Graphic Card:** NVIDIA GeForce GTX 460 and AMD Radeon HD 6800 series or above
  - **Integrated Graphics:** 2nd generation Intel Core processors or above
- NVIDIA 3D Vision
  - NVIDIA 3D Vision Kit + 3D Vision-Ready Display + 3D Vision Compatible NVIDIA Graphics Card are required
  - Please download and install 3D VISION CD for Desktop GPUs v1.38 or Verde Notebook 3D VISION CD v1.38
- 120Hz Frame-sequential 3D LCD (NVIDIA 3D Vision-Ready)
  - **Native format:** 120 fps left and right
  - **Eye wear:** Active shutter glasses (NVIDIA 3D Vision Kit)

- o **Supported Hardware:** Asus G51J-SZ028V, Acer GD245HQ, Acer GD235HZ
- 3D Polarizer LCD
  - o **Native format:** row-interleaved
  - o **Eye wear:** Polarized glasses
  - o **Supported Hardware:** Zalman ZM-M220W, Acer 5738DG (Notebook)
- 3D Ready HDTV (DLP)
  - o **Native format:** checkerboard
  - o **Eye wear:** Active shutter glasses
  - o **Supported Hardware:** Mitsubishi 1080p DLP HDTV, Samsung 3D Ready DLP HDTV

HD Audio Compatible Sound Card and Codec List

- Realtek ALC669 (support up to 192kHz/24bit 6 channels)
- Realtek ALC670 (support up to 192kHz/24bit 6 channels)
- Realtek ALC885 (support up to 192kHz/24bit 2-channels or 96kHz/24bit 4-8 channels)
- Realtek ALC889 (support up to 192kHz/24bit 2-channels or 96kHz/24bit 4-8 channels)
- Realtek ALC892 (support up to 192kHz/24bit 8 channels)
- Realtek ALC898 (support up to 192kHz/24bit 2-8 channels)
- Realtek ALC899 (support up to 192kHz/24bit 2-8 channels)
- Realtek ALC1150 (support up to 192kHz/24bit 2-8 channels)
- VIA EnvyHD Vinyl VT1818S codec (support up to 192kHz/24bit 8-channels)
- VIA EnvyHD Vinyl VT1828S codec (support up to 192kHz/24bit 8-channels)
- VIA EnvyHD Vinyl VT2020 codec (support up to 192kHz/24bit 8-channels)
- Auzentech X-Fi HomeTheater HD (supports HDMI 1.3a bit-stream lossless pass-through)
- AMD Radeon HD 5000 and 6000 Series graphics cards supporting lossless pass-through
- NVIDIA GeForce GTX 400 Series graphics cards supporting lossless pass-through
- Intel Core i3/i5/i7 with integrated audio and graphics