

BDP-93

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Universal Network 3D Blu-ray Disc Player



- **Exceptional Picture and Sound Quality**
- **2nd Generation Qdeo Video Processing**
- **Blu-ray 3D & Network Streaming**
- **SACD & DVD-Audio/Video**
- **Wireless N, eSATA & USB 2.0**
- **Dual HDMI, IR & RS232 Control**

Diversified Media Support:

Blu-ray Disc - The high definition Blu-ray Disc™ format provides pristine video and audio quality for your home entertainment.

Blu-ray 3D - Experience high definition in all new dimensions. The BDP-93 supports the new Blu-ray 3D specifications (3D television and glasses required).

Netflix Instant Streaming Ready - Instantly watch movies streamed to your TV via the Internet connected OPPO Blu-ray Disc Player. (Unlimited membership required. US only)

Blockbuster on Demand - The newest releases instantly from your couch! (Service available in the United States only)

BD-Live & BonusVIEW - The BDP-93 supports BD-Live™ (Profile 2.0) and contains all necessary hardware - audio/video decoder, Ethernet and wireless networking, and 1GB of internal storage - for BD-Live. It also supports BonusVIEW (Profile 1.1) enabling "picture-in-picture" and audio features for viewing director or actor commentary while the main movie is playing.

DVD-Audio - The BDP-93 plays DVD-Audio and supports both stereo and multi-channel high resolution audio programs. Users can select whether to play the

DVD-Audio or the DVD-Video portion of the disc.

SACD - The BDP-93 plays Super Audio CD (SACD) and supports both stereo and multi-channel high resolution audio programs. Users can select whether to output the DSD (Direct Stream Digital) signal in its native format or convert it into PCM.

Additional Disc & Media Formats - Additional disc and file formats, such as DVD, audio CD, HDCD, Kodak Picture CD, AVCHD, MP4, DivX, MKV, FLAC, WAV and other audio/video/picture files on recorded discs, USB or eSATA drives can be played back on the BDP-93.

Unparalleled Video Quality:

Qdeo by Marvell - The BDP-93 incorporates Marvell's Kyoto-G2 video processor with the second generation Qdeo™ technology. Qdeo video processing delivers a truly immersive viewing experience by rendering quiet natural video free of noise and artifacts for all types of content. For high-quality Blu-ray content, the BDP-93 faithfully reproduces the program just as the director intended; for DVD, the up-converted picture quality bridges the visual gap from your current DVD library to Blu-ray discs; for network streaming and user-encoded content at a variety of formats and quality, the BDP-93 offers enhancement options including video noise reduction, compression artifact reduction, intelligent color, contrast, detail and edge enhancements.

DVD Up-Conversion - Per-pixel motion-adaptive de-interlacing and advanced scaling transform the standard definition image on DVDs to high definition output to your TV. Additional Qdeo video processing options help to deliver a clearer, smoother, and true-to-life picture free of noise and artifacts.

Full HD 1080p Output - The BDP-93 features user selectable video output resolutions, including 480i, 480p, 720p, 1080i, and up to 1080p 50 or 60Hz.

True 24p™ Video - Many Blu-ray Discs are recorded at 24 frames per second, the same frame rate as the original movie's theatrical release. The BDP-93 can faithfully redeliver the original frames using 1080p 24Hz output (compatible display required) for smoother motion and a flicker-free, film-like home theater experience.

Source Direct Mode - For users who wish to use an external video processor, high-end audio/video receiver or display, the BDP-93 offers a "Source Direct" mode. The original audio/video content on the discs is sent out with no additional processing or alteration.

Multiple Zoom Modes - The BDP-93 supports multiple levels of aspect ratio control and image zooming, including a vertical stretch mode for customers with a 2.35:1 CIH (Constant Image Height) display system. A unique subtitle shift feature allows the user to move the subtitle up and down, making it possible to

see all subtitle text when using a 2.35:1 CIH display. (Blu-ray discs with BD-Java may prohibit zoom operation.)

Dual HDMI v1.4a Outputs - Two assignable HDMI v1.4a outputs are provided to capitalize on the optimum audio and video settings to all old, new, and future HDMI televisions and receivers. With the option of full audio and video output to 2 displays; or dedicate one HDMI for audio, the other for video, it promotes a high quality video and audio for both signal paths. The BDP-93 supports 3D and Deep Color modes on both HDMI output ports.

Ultimate Convenience:

Dual HDMI Outputs – The BDP-93 is equipped with two HDMI output ports and offers the most versatile installation options. You do not have to upgrade your A/V receiver to a 3D model in order to enjoy 3D. One HDMI output of the BDP-93 can be connected to a 3D TV and the other can be connected to a pre-3D HDMI v1.1-v1.3 A/V receiver. For projector users, you can connect one output to a projector for home theater use and the other to a TV for casual viewing. For a multi-room installation the BDP-93 can output audio and video to two 3D or 2D TVs simultaneously.

eSATA Port – The BDP-93 features an eSATA interface on its back panel. Customers can take advantage of this fast interface to play contents from external harddrives and enclosures which contain audio, video and photo files.

Wireless & Ethernet – Using the included wireless-N adapter or the built-in RJ45 Ethernet port, users will be able to interact with BD-Live content, watch instant streaming programs from providers such as Netflix, Blockbuster etc., playback contents stored on their home network, and keep the BDP-93 up-to-date with firmware releases to ensure maximum Blu-ray compatibility.

Dual USB Ports - Two USB 2.0 high speed ports are provided, one on the front panel and one on the back. Users can enjoy high definition video, high resolution photos and music directly from their USB drives.

PAL/NTSC Conversion - The BDP-93 supports NTSC and PAL systems for both disc playback and video output. It can also convert content of one system for output in another. (Subject to DVD and BD region restrictions.)

Back-lit Remote Control - The BDP-93 comes with a fully back-lit remote control for ease of use in dark home theaters. With its ergonomic button layout and clear labeling, operating the Blu-ray Disc player is easier than ever.

Universal Power Supply - The BDP-93 features a wide-range world power supply that is compatible with AC power from all regions. No worries about damaging the player due to incorrect power voltage.

External IR - For integration into home theater control systems, the BDP-93 provides external IR IN port to use with an IR distribution system.

RS232 Control - For custom installation, the BDP-93 offers an RS232 control port with a rich control and communication protocol. Installers can easily program their favorite control systems to operate the BDP-93.

HDMI CEC - HDMI Consumer Electronics Control simplifies the home theater by allowing a single remote control to operate multiple devices.

Specifications

Designs and specifications are subject to change without notice.

Disc Types*	BD-Video, Blu-ray 3D, DVD-Video, DVD-Audio, AVCHD, SACD, CD, HDCD, Kodak Picture CD, CD-R/RW, DVD±R/RW, DVD±R DL, BD-R/RE
BD Profile	BD-ROM Version 2.4 Profile 5 for 3D (also compatible with Profile 2, Profile 1 Version 1.0 and 1.1)
Internal Storage	2GB (Approximately 1GB available for BD-Live persistent storage. Actual storage varies due to system usage)
Output	Analog Audio: 7.1ch, 5.1ch, or stereo Digital Audio: Coaxial, Optical HDMI Audio: Stereo, up to 7.1ch high-resolution PCM, up to 5.1ch DSD, bitstream or LPCM conversion of Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, and DTS-HD Master Audio. Analog Video: Composite, Component Video (Y/Pb/Pr, 480i/480p, 720p/1080i available for non-restricted content only) Digital Video: HDMI with HDCP (NTSC: 480i/480p/720p/1080i/1080p/1080p24, PAL 576i/576p/720p/1080i/1080p/1080p24)
Video Characteristics	Composite Video Amplitude: 1.0Vp-p (75Ω) Component Video: Y: 1.0Vp-p (75Ω), Pb/Pr: 0.7Vp-p (75Ω)
Audio Characteristics**	Frequency: 20Hz - 20kHz (±0.3dB), 20Hz - 96kHz (±2.0dB) Signal-to-Noise Ratio: >110dB (A-weighted) THD+N: < 0.002% (1kHz at 0dBFS, 20kHz LPF)
General Specification	Power Supply: ~ 100V - 240V, 50/60Hz AC Power Consumption: 35W (0.5W Standby) Dimensions: 430mm x 311mm x 79mm, 16-7/8 x 12-1/4 x 3-1/8 inches Mass: 4.9kg / 10.8 lbs
Operating Temperature	5°C - 35°C 41°F - 95°F
Operating Humidity	15% - 75% No condensation

* Compatibility with user-encoded contents or user-created discs is on a best-effort basis with no guarantee due to the variation of media, software and techniques used.

**Nominal specification.

Product Photos

Front Left View



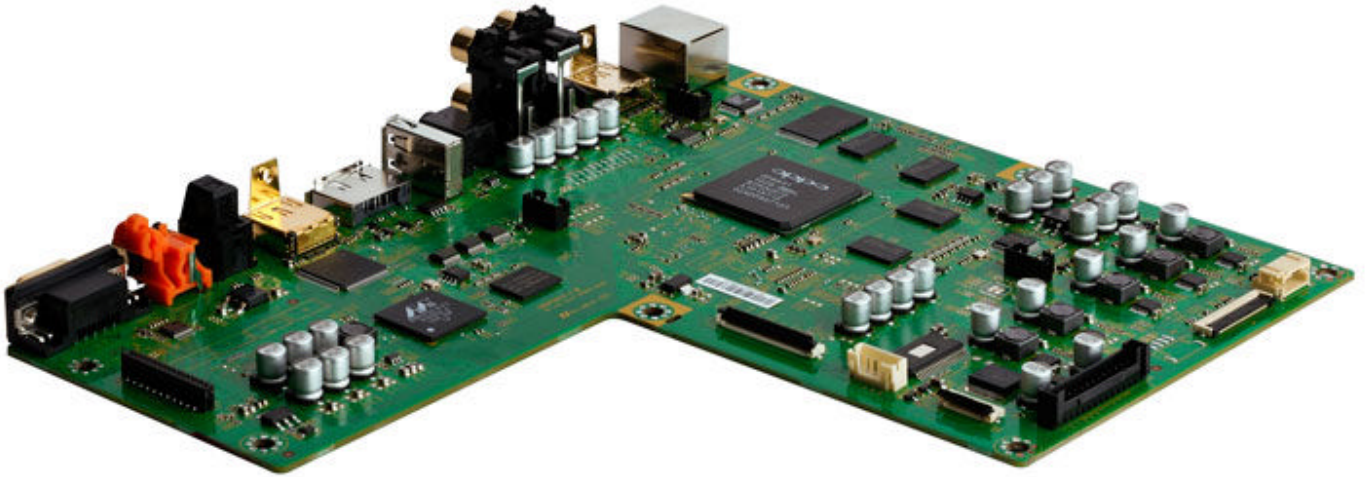
Front View



Back View



Technology and Components



BDP-93 Main Decoder and Video Processor Board



Custom OPPO Decoder and Marvell Kyoto-G2 Qdeo Video Processor