

THE TOTAL 3D EXPERIENCE

OFFICIAL FAQ



Contact Digital Projection via the following:

Corporate Office - 770-420-1350

Email Enquiries - contact@digitalprojection.com

Dimensions Media Server FAQ

January, 2010

Q: What formats of stereoscopic 3D does this server support?

A: The server supports all known types of stereoscopic formats and the displays that may use them. However, this server has been designed specifically to work with the Digital Projection Home Theater product line.

Q: Do I need a special Blu-ray player to play 3D movies?

A: This server has a 3D compatible Blu-ray player included. Another is not required.

Q: What is the story with Blu-ray? When is there going to be a universal standard and how will that affect the server I am buying now?

A: A Blu-ray standard was introduced at the recent CES show in January, 2010. Implications are not fully known, but it appears that a firmware upgrade will be all that is necessary.

Q: Where can I get 3D movies now that will work with the player?

A: Four sample movies come with the system. In the Bookmarks section of the internet browser on the server we have provided URLs for sites where movies are offered for sale. Look for the movies that are active stereo capable (on some sites, the 3 and D blink on and off to signify shutter glass compatible). You can also order and show red/blue (anaglyph) movies in 2D projector mode but the quality will not equal active stereo.

Q: There is a lot of old anaglyph material out there. Can we play it? Can we convert it?

A: The projector should be able to show it as it would any 2D material. However, we don't recommend anaglyph as a preferred method for a high quality 3D experience. The glasses provided with the system will not work with anaglyph movies and we will not be providing anaglyph glasses. (NOTE: the 2D to 3D stereoscopic converter provided with the server will attempt to convert anaglyph content to active stereo, but will result in monochrome images and a generally disappointing quality).

Q: How long will it take to download a movie?

A: Movies currently available can't be downloaded. They have to be ordered for delivery. This is expected to change as movies become available from services like Netflix™. Even so download speed will depend on network bandwidth and movie resolution/length.

Q: Are there copyright issues when playing a Blu-ray movie?

A: No more so than playing any other DVD. The Titan projector is HDCP compliant.

Q: Can I get custom programming of the Crestron, AMX or other control system?

A: Yes, but not as part of the standard package. If custom programming is required, we will need dialogue to determine what the need is and provide a proposal for the work.

Q: Can this server be linked to other servers?

A: Yes, thru windows file sharing utilities. Your theater integrator can help you make the connections.

Q: Is a control system a necessary part of the package?

A: Yes, to set the stereo formats necessary for sources and for easy selection of content on

the media server. We support Crestron or AMX controllers and will provide the control programming necessary to control the stereo modes and interface effectively with the media player. In particular, with the media server installed in a rack where the user may not want to access it regularly, we have provided a control interface that executes scripts on the PC to easily navigate and execute game files or other media copied to the hard drive. These control modules will be provided in a black box format where the functionality of the module and the expected input/output variables are defined. These modules can then be easily integrated by the custom installer. The iPod Touch is not required as the interface; a standard Crestron or AMX touch panel can be used if that is the preference. Compatibility with other control systems can be discussed.

Q: Can I connect the server to a flat panel TV as well as the projector?

A: Yes. The server has been optimized to work with the Digital Projection Titan series of projectors. However, the server will accommodate the formats for other 3D displays but only a single stereo output is available. See the list of 3D formats supported by this server earlier in the Q&A.

Q: How do I play a 3D game?

A: The control system interface supports a button in the touch panel interface to enable the Titan projector and the Dimension server to enter 3D gaming mode. Select that mode. Then, insert the game disc into the server's Blu-ray player or select the game from the hard drive as required. Use the mouse/keyboard or game controller (both provided) to play the game as you would any other. Remember to put on your 3D glasses and turn them on for the best experience.

Q: What does the TOTAL 3D Experience offer that I can't get from a potential 3D Blu-ray player?

A: A 3D Blu-ray player will allow you to play movies that are mastered in the upcoming 3D format, but that is the only 3D you will experience. Consider, instead, the additional benefits of the Dimension server:

- **3D Gaming** - the Dimension server is also a PC game station that will allow you to play 3D-ready video games such as Avatar, Lego Star Wars, Modern Warfare and more. There are hundreds of 3D-ready games available.
- **Conversion of existing 2D DVD library into a 3D viewing experience** - using the built-in conversion software, you will soon be able to experience all your old favorites in 3D. So no need to rebuild the DVD library.
- **Conversion of existing 2D digital photographs to include 3D effects** - revitalize your digital photographs as you experience them with enhanced 3D effects.
- **3D Broadcasts** - the Dimension server has a tuner that will allow you to enjoy the new 3D tv channels that are expected to start in 2010, including ESPN, Discovery Channel, DirecTV and more).
- **Play your own 3D content** - customers that own a digital still/video camera such as the new Fuji 3D camera can create and play back their own home movies in 3D.
- **Availability of a wealth of online 3D content** - 3D photos, slide shows, animated movies and feature movies are all available on the web today. You can bet that online content will experience a huge surge in availability as 3D becomes more popular among amateur photographers, film makers and graphic designers/animators. Links to some content sites are included with the Dimension server.

Q: Do the 3D glasses use batteries that will need to be replaced?

A: No. The shutter glasses provided with the server are the newest generation, highest quality active glasses available. They recharge via a USB connection. A multi-outlet charger will be provided with this system. These are the same glasses used by researchers, product designers and medical specialists across the world.

Q: In regards to the quality of real-time 2D to 3D stereo conversion, what sort of quality can be expected?

A: With such a new process, it is always best for a customer to see some examples in person so that they can make their own observations. But the following description will hopefully help set expectations.

Essentially, the converter looks at several frames of the movie simultaneously: the one you are presently viewing, plus several frames before and after the current frame. The software analyzes colorposition and motion of objects in the frame, then estimates and renders the stereoscopic view. Animated movies such as Coraline and Madagascar convert quite well, partly due to the characters' rich colors and definition. Movies that include sports scenes, like Friday Night Lights (football), showed good 3D in huddles and much of the play action. Fast-moving players do affect the converter's ability to assess the scene for depth cues, but viewers will definitely see a difference in the image.

Movies like the new James Bond and Star Trek films contain a lot of fast action chase scenes and battles. Some scenes are only a few frames long so the converter doesn't have much to work with in order to generate depth before it detects a different scene. So, very fast scenes many not have a huge depth effect and may appear more like 2D. But this can be true for 3D-mastered movies as well, as in Avatar where depth was purposefully lessened during some of the fast-paced action scenes.

The 2D to 3D conversion will not match a movie mastered in 3D, but the enhanced depth effects can certainly revitalize an existing movie in your library. Again, seeing is believing.