



DIGITAL  
BINOCULAR  
STATION

# TECH SPEC

Imagined by



# TECHNICAL SPECIFICATIONS

- Designed for outdoor use.
- Full metal construction for vandal resistance.
- Can pan and tilt with shock-absorbent stops at positions specified by the client.
- Pan and tilt is measured by high quality internal sensors with thousands of units of resolution.
- A raised footplate allowing children to reach the eyepiece.

## OPTIONAL FEATURES

- Ability to present stereoscopic 3D visuals, as seen in the latest blockbuster films. This makes the user feel like they are looking through the DBS into a convincing environment.
- Colour and surface design styles
- Payment options include; Coin, Barcode or Token access card
- Multiple different experiences sold via the same station.
- Wireless remote to control volume, mute, restart, insert virtual coins (for testing and complementary uses), and act as basic keyboard and mouse.
- Speakers near the eyepiece to provide immersive audio, synchronised with the visuals.
- Accessory screens (e.g for compelling promotion)
- User Log to capture user activity and compile and present graphically. E.g. number of uses, peak usage, percentage of full capacity used, areas looked at the most, etc.
- Remote access and monitoring of the software via wireless network. This can offer regular log access, remote diagnostics and repair, and automatic alerting of service personnel if required.
- Power regulation to filter out and prevent mains spikes
- Timer to automatically turn the DBS on and off at specified times.
- Annual service and support contracts

## DBS PLAYER

DBSPlayer software has taken a revolutionary and pragmatic approach tailored specifically for the needs of Digital Binocular Stations. As the station is anchored to the ground, the software does not have to respond to the user

spontaneously moving through the space. Therefore, typical real-time 3D rendering software is of no benefit, and in fact has significant disadvantages of difficulty, expense and compromised quality. Instead, DBS Player is based on an innovative process akin to TV and Film Visual Effects: taking as long as you like to pre-render high quality 3D visuals, and then composite multiple layers of visuals into the final compelling scene.

## ADVANTAGES OF THE DBS PLAYER INCLUDE:

- Easy to produce. Content can be created by people with Photoshop, TV and Film experience using tools they are already familiar with. This is cheaper and easier than programming real-time 3D graphics using specialised tools.
- Traditional Photoshop, TV and Film content can be displayed, including video of real performers. This increases quality, and speed, opens up new possibilities and even allows existing assets to be repurposed. Usable content includes: video, audio, photo, hand-drawn imagery of objects and backdrops, 2D and 3D computer generated imagery, visualisation of geographic datasets, text.
- No programming is necessary. The DBS Player has an open content file format that allows content creators to lay out the scene and interaction themselves without needing to do any programming.
- Content can be previewed easily on any computer with no need for any dedicated, bulky and expensive hardware. This allows rapid iteration, also increasing speed and quality.

## FEATURES OF THE DBS PLAYER INCLUDE:

- Ability to present stereoscopic 3D visuals, as seen in the latest blockbuster films. This really makes the user feel like they are looking through the DBS into a convincing environment.
- Ability to present an experience on a second display, for example, on an overhead screen. The second display can show completely different content (e.g. for compelling POS signage), or the same content (e.g. for the rest of the family) at a different resolution and aspect ratio, which is almost always necessary for best results.
- Ability to present real-time 3D content mixed with the pre-rendered content, if the benefits outweigh the added complexity.

**DIMENSIONS:**  
840mm x 840mm x 1540mm high.

**DISPLAY RESOLUTION:**  
Options of 800 x 480 or 1024 x 768.

**PANORAMIC RESOLUTION:**  
7302 x 2056

**STEREOSCOPIC 3D:**  
Available if required

**AUDIO:**  
Stereo, with high frequency and bass response

**DEFAULT ROTATION:**  
Pan of 340 degrees  
Tilt of 60 degrees

**MANUFACTURE LEAD TIME:**  
3 months



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[digitalbinocularstation.com](http://digitalbinocularstation.com)

