

# ASTROFX AUDIO

## AstroFXAudio Standard and Advanced Surround Sound Systems <http://www.bowentechnovation.com/systems/immersive/astrofxaudio/>

Each AstroFXAudio system is uniquely engineered for your specific dome size, tilt, seating configuration, and room acoustics and includes the latest *professional* high-efficiency technology products. Our customers tell us AstroFXAudio systems are an unsurpassed choice for ease of use, sonic quality, reliability, low energy consumption, and flexibility.

### The Parts

AstroFXAudio Standard and Advanced 5.1 surround sound systems interface with any astronomy projection system and provide a professional feature package.

The systems typically include:

- Digital 5.1 or 7.1 audio from all-dome systems (if the projection system has digital).
- Digital stereo audio from a console mixer.
- Digital world-class amplifiers.
- Professional 2-way and 3-way full-range speakers.
- High-power subwoofer(s).
- A rack-mount Bluray/DVD/CD/MP3 player.
- A premium grade digital wireless microphone package with lavalier, headset and handheld microphones.
- A backup wired mic and input jacks at the console and front stage area.
- A 16-input mixer. 22 and more total audio inputs.
- Power conditioning and surge suppression is included for all equipment.
- Our large dome high-powered systems are often bi-amped (bi-amplified).
- The optional AstroFXAurora lighting controller and AstroFXCommander systems enable direct control of audio system levels from all-dome control panels, scripts, and iPad GIU. See the datasheets for these products for more information.

Advanced level systems typically include more power with upgraded speakers and amplifiers.

### Amps and Speakers.

No “music store” or “home theater” grade equipment is used in these systems. Professional grade digital amplifiers power L-R-Ls-Rs-C 2-way or 3-way speakers plus subwoofer(s). The exact size and power of these speakers is designed based on your theater size and seating layout.



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## Processing

All AstroFXAudio Standard and Advanced systems feature our programmable “top-of-the-line” expandable AstroFXAudio digital audio processing systems (DSP) which route the system sources to the proper output channels. Our audio engineers use these powerful DSP units to perfectly tune and balance audio levels and to equalize the speakers to your room acoustics... with the capability to store and recall unique “preset” system settings for different show types.



An input is provided at the console rack for iPod, computer, or other stereo audio input.

## Console and Racks

AstroFXAudio Standard and Advanced systems are typically delivered in two racks. The theater console rack splits into two sections. The slant top section installs on your console desk top and holds equipment you operate manually. The short straight section installs below the desktop. The second, taller rack is installed in a nearby equipment room so noisy, heat-generating equipment such as servers, audio processors, and amplifiers are isolated from your perfectly quiet theater.

The console rack can be upgraded to one of our tidy new custom consoles (see pic at the right), which we have designed specifically for domed immersive theaters. Various sizes and shapes are available to fit your exact needs.



## Installation and Calibration

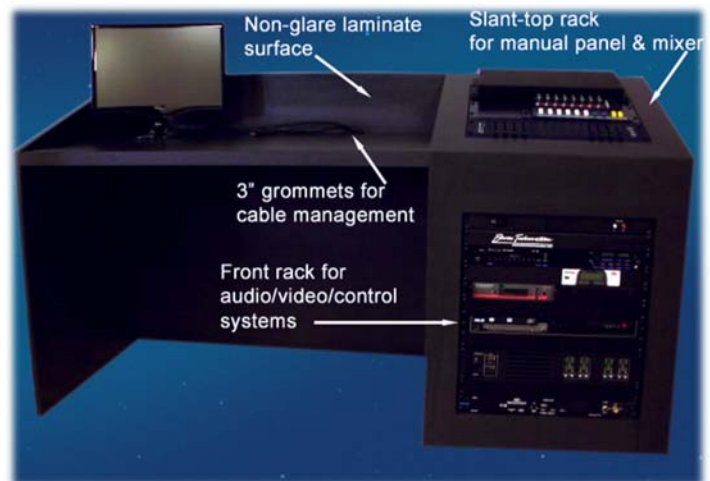
All BT staff are manufacturer certified and experienced in top-quality system installations. Several of our staff have audio engineering and telecommunications degrees.

All systems are tuned and balanced with calibrated pink noise to deliver minimum 85-96dB continuous to the audience plus additional headroom.

## Options and Expansion

Popular options include wireless handheld, headset and lavalier mics, a stage mic jack plate at the front of the theater with two mic jacks, a frequency selective multichannel assistive listening system (ALS) for multi-lingual presentations, a 5.1 decoder for DTV, Blu-Ray, and DVD surround soundtracks.

The optional AstroFXAurora lighting controller and AstroFXCommander systems enable direct control of preset mix changes from all-dome control panels, scripts, and iPad GIU. See the datasheets for these products for more information.



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