

# APX AuroMax®

Spatial audio processor



- **Most realistic immersive audio**
- **Maximum flexibility**
- **Minimal investment**

The Barco immersive audio solution, through its APX AuroMax® spatial audio processor, delivers the most realistic representation of standardized immersive audio as per recently released SMPTE standard. It is the only immersive audio solution that utilizes both three-layer zones and a balanced mixture of channel and object-based technology.

### **Most realistic immersive audio**

By leveraging Barco's spatial sound rendering technology, the APX AuroMax delivers the most realistic immersive audio cinema experience. It adds additional zones to the room allowing for better placement of specific objects in the mix, regardless of the size of the room.

### **Maximum flexibility**

Leveraging Barco's signature surround layer and screen channel configuration, Barco's newly optimized immersive audio solution offers a large variety of speaker configurations up to 26.1, also supporting Auro 11.1, classic 5.7 or 7.1 and anything in between compared to others!

### **Minimal investment**

Barco immersive audio can be installed in both existing and new theaters for up to half the cost of alternative object-based audio, thanks to need for less amplifier channels and lower powered speakers.

### **Compliant with SMPTE 2098-2**

The SMPTE immersive audio standard requires movies created in this format to play on systems designed to accommodate these standards. Barco's immersive audio solution supports the placement of objects in any immersive mix as defined by the industry standard.

**PRODUCT SPECIFICATIONS****APX AUROMAX®**

Functionality	Integrated decoder for immersive audio playback (SMPTE ST2098-2)*. Compatible with Barco ICMP media server
Control	Local control, TMS commands, APX client
Network connection	2 x RJ-45 ethernet connections (remote control, object-based audio data input)
Data Configuration storage	SD card slot for data backup
Audio Inputs	<ul style="list-style-type: none"><li>■ AES / EBU digital audio input: 2 x RJ-45, 16 mono channels</li><li>■ D-sub (DB25F with UNC 4-40): Analog audio input, balanced, ch. 1-8</li><li>■ 2x RCA, female: Analog audio input, unbalanced, stereo</li><li>■ XLR female - 6.35mm TRS female combo: Analog audio input, balanced, mono</li></ul>
Audio output	<ul style="list-style-type: none"><li>■ APX: 32 channel analog audio output: 4 x D-sub (DB25F with UNC 4-40), servo balanced, 300 mV RMS @ -20 dB FS</li><li>■ APX-D: 32 channel digital audio output: 2 x D-sub (DB25F with UNC 4-40), AES / EBU audio</li><li>■ HI (hearing impaired), VI-N (visual impaired-narrative), MON (monitor), servo balanced, 300 mV RMS, 10 pin connector</li></ul>
Housing	19 in. / 2 RU
Dimensions (W x H x D)	483 x 89 x 370 mm / 19 x 3.5 x 14.6 in (without connectors)
Mounting	345 mm / 13.6 in mounting depth
Weight	5.44 kg / 12 lbs
Operating temperature	0 -40 °C / 32 -104 °F
Operating humidity	0 -80 % RH, non condensing
Storage temperature	-20 -+60 °C / -4 -140 °F
Storage humidity	0 -80 % RH, non condensing
Power requirements	Mains: 100 -240 VAC / 50 -60 Hz, fuse: 1 ampere / 250 volts, slow-blow, glass tube
Power consumption	Mains: 50 W / 1.0 -0.5 A
PSU	<ul style="list-style-type: none"><li>■ External bypass PSU input power requirements: 100 - 240 VAC / 50 - 60 Hz</li><li>■ External bypass PSU output voltage: 12 VDC</li></ul>
Accessories	<ul style="list-style-type: none"><li>■ US: SD card, monitor output connector, AuroMax sticker, AuroMax plaque, 4 times DB25 output breakout cables, safety instructions, user and installation manual (EN), external bypass PSU, US power cord, AP24 connection cable kit</li><li>■ GRC: SD card, monitor output connector, AuroMax sticker, AuroMax plaque, 4 times DB25 output breakout cables, safety instructions, user and installation manual (CH), CH power cord</li><li>■ Rest of world: SD card, monitor output connector, AuroMax sticker, AuroMax plaque, 4 times DB25 output breakout cables, safety instructions, user and installation manual (EN), EU power cord</li></ul>
Other accessories	AP24 connection cable kit, external bypass PSU
Certifications	CB, CE, UL / CSA
Warranty	24 month
*	Supports decoding of SMPTE ST 2098-2 compliant bitstreams, rendering of IAFrame, 1x BedDefinition, up to 118x ObjectDefinition (ObjectDefinition (gain; position x/y/z; snap; zone exclusion of zone combinations Lsr/Rsr, Lss/Rss, L/R/Lss/Rss, Lss/Rss/Lsr/Rsr, LCR, TL/TR; equal spreading in each dimension), AudioDataDLC (48 kHz). Rendering of conditional beds/objects is not supported.

Last updated: 20 May 2019

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.