



# HP 505

**XI Audio HP505  
Headphone Panel**

## XI Audio HP-505

is a stereo headphone amplifier and control panel for broadcast studios. The HP-505 can be mounted directly on the desktop or can be flush mounted. The HP-505 works with all Axia devices that have an Axia GPIO port, but can be used with other broadcast systems as well. It provides remote control of mic on/off functions.



Dedicated Mute and Talkback buttons give talent full control. The buttons can be programmed to use one of the eight predefined colours using the DIP switches on the rear panel.

Multiple **HP-505's** can be daisy-chained using CAT5/6 cabling and the Loop-Thru port to produce a multi-user headphone listening system. The unit can be powered from a POE switch or POE Injector. The **HP-505** is optimized for use with contemporary high-efficiency headphones. Each **HP-505** contains its own amplifier so any combination of different headphones can be used. There is no interaction between units and no degradation of audio performance.

The **HP-505** features a volume control and 2 headphone jack sockets - 1/4" and 1/8" (3.5mm) which allows both standard and mini headphones to be used. A volume control knob allows full control of headphone level. There is also an 1/8" stereo line input jack socket on the panel allowing audio to be played from devices such as mobile phones or tablets.

On the back panel there are total 6 RJ45 (Cat 5/6) connectors. All audio input/output and GPIO connections are made through these connectors. The GPO socket is intended for connection to an **XI Audio GPIO dongle**, allowing GPIs of an Axia xNode (or similar) to be triggered from the Talk Back, Mute or Mic Buttons.

# Technical Specifications

## Audio Input Performance Specifications

Parameter	Input (Headphone Source)
Input Impedance	>20kΩ, electronically balanced
Maximum Input Level	+24dBu
Parameter	3.5mm Line Input
Input Impedance	>20kΩ, electronically balanced
Maximum Input Level	+12dBu
Gain	+12dB fixed (designed to interface a -10dBV (-8dBu) nominal level unbalanced input to a +4dBu nominal level balanced output)

## Audio Output Performance Specifications

Parameter	Line Output
Output Impedance	<50Ω, electronically balanced
Maximum Output Level	+24dBu
Noise (A-weighted)	-86dBu, 20kHz BW, Rs=200Ω, ref. 12dB gain
Frequency Response	20Hz to 20kHz, +0/-0.5dB
THD+N	0.01% THD, +8dBu, 1kHz, 20kHz BW
Crosstalk	<-100dB
Parameter	Headphone Outputs
Supported Load Impedance	Drives 150mW into 32Ω to 600Ω headphones
Maximum Output Level	+18dBu
Noise (A-weighted)	-82dBu, 20kHz BW, Rs=200Ω, ref. 12dB gain
Frequency Response	20Hz to 20kHz, +0/-0.5dB
THD+N	0.01% THD, +8dBu, 1kHz, 20kHz BW
Crosstalk	<-100dB