

## 406

## SIX CHANNEL HEADPHONE AMPLIFIER



The ART Model 406 Six Channel Headphone Amplifier addresses the basic requirements for professional headphone mixing. It's a great processor for professional, project and home studio applications. It has an output and level control for each set of headphones, and a stereo input for connecting the program source.

#### Headphone Mixing Made Simple.

The three basic requirements for professional headphone mixing are: (1) an output for each set of headphones, (2) a level control for each set of headphones, and (3) a stereo input for connecting the program source (mixer, CD player, tape deck, etc.). But there may be other requirements. (4) A second stereo source may need to be connected and mixed with the stereo program perhaps added background tracks. (5) It may also be necessary to insert a specific audio source into a specific headphone channel possibly a vocalist wants to hear himself or herself alone. (6) You may find it necessary to connect a number of mono sources rather than one or two stereo sources and have some degree of control over their relative volumes perhaps the recordist or director needs to address everyone. The trick is to make this headphone mixer compact and simple to use.

#### Usage

- Connect the AC cord to a grounded AC outlet.
- Connect the STEREO INPUT (front) to the source, or use two, shielded, mono (TS) cables to connect the L and R MAIN (rear) Inputs to the source.

- If needed, connect a second stereo source to the L and R AUX input jacks (rear) using two shielded, mono (TS) patch cables.
- To connect a mono source, depress the MONO/STEREO button on the front panel of the 406, then connect the source to the L (mono) MAIN or AUX Input.
- It is possible to connect up to four mono sources with the 406 in MONO mode and the PAN control acts as a relative volume level control between signals connected to the R inputs versus the L inputs. With the 406 in STEREO mode the PAN control regulates L/R headphone balance as usual.
- The INSERT jacks permit connecting a stereo source directly and exclusively to any headphone channel. Always plug a stereo (TRS) 1/4" jack into these inputs so that sound can be present in both ears (these jacks are not affected by the Mono/Stereo button). When these jacks are in use, the MAIN and AUXILIARY L and R inputs are disconnected. Only the INSERT signal goes to that corresponding OUT jack.
- Connect stereo headphones to the OUT jacks on the front panel and adjust the LEVEL controls as desired. DO NOT plug a mono jack into any OUT jack as this may damage the unit.

406 SPECIFICATIONS	Input Impedance:	100K ohms
	Max Input Level:	+18dBV
	Max Gain:	20dB per channel
	Max Output:	300mW per channel
	Frequency Response:	20-30kHz
	Signal-to-Noise:	90dB
	THD & IMD:	<0.008%
	Power Requirements:	120VAC, 50-60Hz, 15VA
	Dimensions:	19" x 1.75" x 6" (482mm x 44.5mm x 152mm)
	Weight:	5.5 lb. (2.5 kg)

#### 406 FEATURES:

- ✓ Six headphone channels each with its own LEVEL control and headphone OUT jacks
- ✓ An INSERT jack for each channel to isolate it for specific input signals
- ✓ Single 1/4 inch STEREO Input (front) or dual L + R 1/4 inch inputs (rear)
- ✓ L and R AUXILIARY 1/4 inch inputs (rear) which can be mixed with the above
- ✓ PAN control (front) also regulates L/R relative input levels in mono mode
- ✓ MONO/STEREO push-button (front) adds versatility
- ✓ Power LED
- ✓ Single U rack-mount format

#### APPLICATIONS:

- Live Sound Systems / PA
- Permanent/ Fixed Installations
- Church, Club, and Practice PA Systems
- DJ Sound Systems
- Monitor Systems
- Home and Project Recording Studios

From the innovative minds at ART.

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