

User Manual

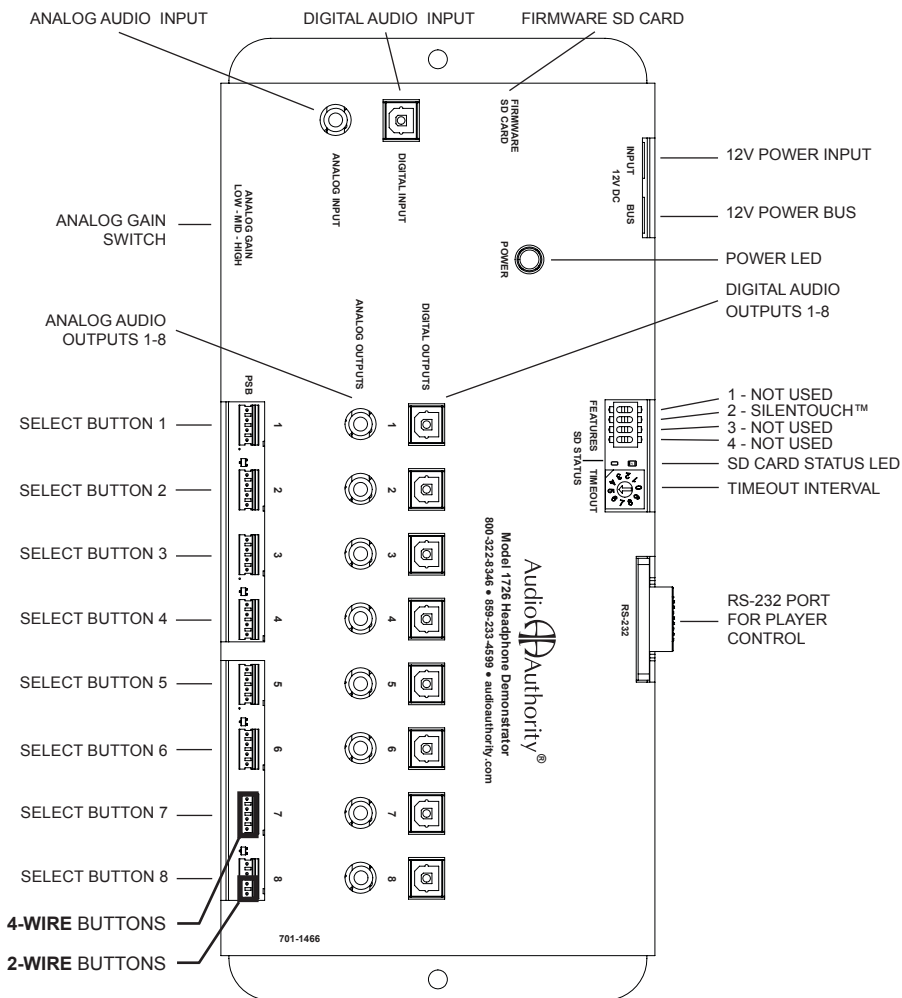
Model 1726 Headphone Demonstrator



Audio  Authority®

Model 1726 Headphone Demonstrator

The 1726 amplifier is designed to demonstrate headphones with analog or digital Toslink® connections. It passes PCM-2 and Dolby® 5.1 digital signals. The 1726 can be used with any audio or audio-video player, or with an RS-232 compatible player and custom programming, it can trigger a specific track for each headphone output. Contact your Account Manager for details about player control.



Model 1726

Selecting Products for Demonstration

Only one set of headphones may be selected and demonstrated at any time. Product select push-buttons are used to select headphones for demonstration. Product Select Buttons (4-wire or 2-wire) are available in several styles and colors.

Features

Choose the desired features and select using the DIP switches as shown. Cycle power after making changes to the DIP switches.

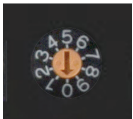


FEATURE SWITCHES

SilenTouch™: Prevents switching noise when activating tracks.

1	2	3	4
-	ON	-	-

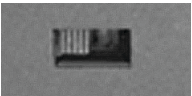
Timeout Dial: All outputs deselect after a period of inactivity (the timeout interval). The timeout interval is set by the Timeout dial, in increments of 15 seconds. If the timeout switch is set to 0, the demonstration does not time out. When a customer makes a selection the timer resets.



TIMEOUT DIAL

Interval	1	2	3	4	5	6	7	8	9	0
Seconds	15	30	45	60	75	90	105	120	135	Never

Analog Gain Switch: The gain can be set to Low, Mid, or High, depending on the SPL desired for analog headphones on display. Digital audio outputs are not affected. *See page 4 for setup instructions.*



ANALOG GAIN SWITCH

Connections

Digital Audio Inputs/Outputs: Connect an optical cable from the media player’s output to the 1726 optical input. Connect an optical cable from each of the headphone output connectors to the corresponding headphone’s audio port. Connect only one audio cable to each headphone system.

Analog Audio Inputs/Outputs: Connect an analog stereo cable from the media player’s output to the 1726 analog 3.5 mm input. Connect an analog 3.5 mm cable from each of the headphone output connectors to the corresponding headphone’s audio port.

RS-232 Port: The 1726 can be programmed to send RS-232 commands to a compatible player. Use a *standard* serial cable (male to female) for RS-232 communication. Contact your Audio Authority Account Manager for details.

	Pin 2, Tx	Transfer Rate	9600 bps	Flow Control	None or Off
	Pin 3, Rx	Data Bits	8	Character type	ASCII
	Pin 5, Ground	Parity	None	Connector	DB-9
	Shell, Ground	Stop Bits	1	Electrical Rating	Pins 2 and 3, ±15 VDC

SD Status LED: See audioauthority.com/product_details/1726 for more information.

Power Input: Connect the included 12V power supply to Power Input. Connect a 5.5 mm jumper cable from 12V Power Bus connection to other 1726 units if desired.

Media Player Guidelines

To use the 1726 amplifier to best advantage, it is recommended to use the highest quality music files possible. Uncompressed FLAC or WAV files are ideal, but high bit-rate MP3 files may be adequate for demonstration. If some headphones to be demonstrated have analog inputs, and some have digital inputs, the player must provide both analog and digital signals simultaneously. Audio Authority Model 1703 music player is ideal for this purpose.

Player Control Option

Certain audio or video devices are compatible with the 1726 player control feature. Any source device may provide audio, but with a compatible player and custom programming the 1726 can trigger a specific track for each selected headphone output (the player must have its own dedicated volume controls). Contact your Account Manager for details.

Installation

- Read these instructions and set the Feature switches for the desired demo behavior (see page 3). Whenever a change is made to the Feature switches, power cycle the 1726.
- Attach the 1726 to a surface with the screws provided.
- Connect push-buttons for headphone selection. Push buttons may be 4-wire or 2-wire momentary switches, and can be illuminated (2-5 volt LED).
- Connect RS-232 cable to a media player, if serial control is utilized.
- Connect power supply to AC power, then to the 1726 power port.
- Connect audio input(s) from media player to 1726 amplifier.
- Connect audio output to headphones.
- Adjust the analog gain switch using the guidelines below.

Analog Gain Switch Settings

The setting for the Analog Gain Switch depends on the headphones being displayed. Interactions between the headphone's impedance (Ohms) and sensitivity (dB) are factors that determine sound pressure level (SPL) when combined with the output power of the Model 1726. Set the media player output volume, using dynamic material, to the maximum volume level *before distortion occurs*. Reference each of the headphones being displayed and adjust the Analog Gain Switch to a conducive listening level. If the headphones on display have a wide range of sensitivity and impedance, consider creating two or more groups of headphones, each with a different gain setting.

Operation

Select each pair of headphones from the the headphone display and press the product select button to begin a demo. The demo ends after the timeout interval, measured from the last product selection. After each demo all outputs are muted.



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