# User Manual

## Model 1715
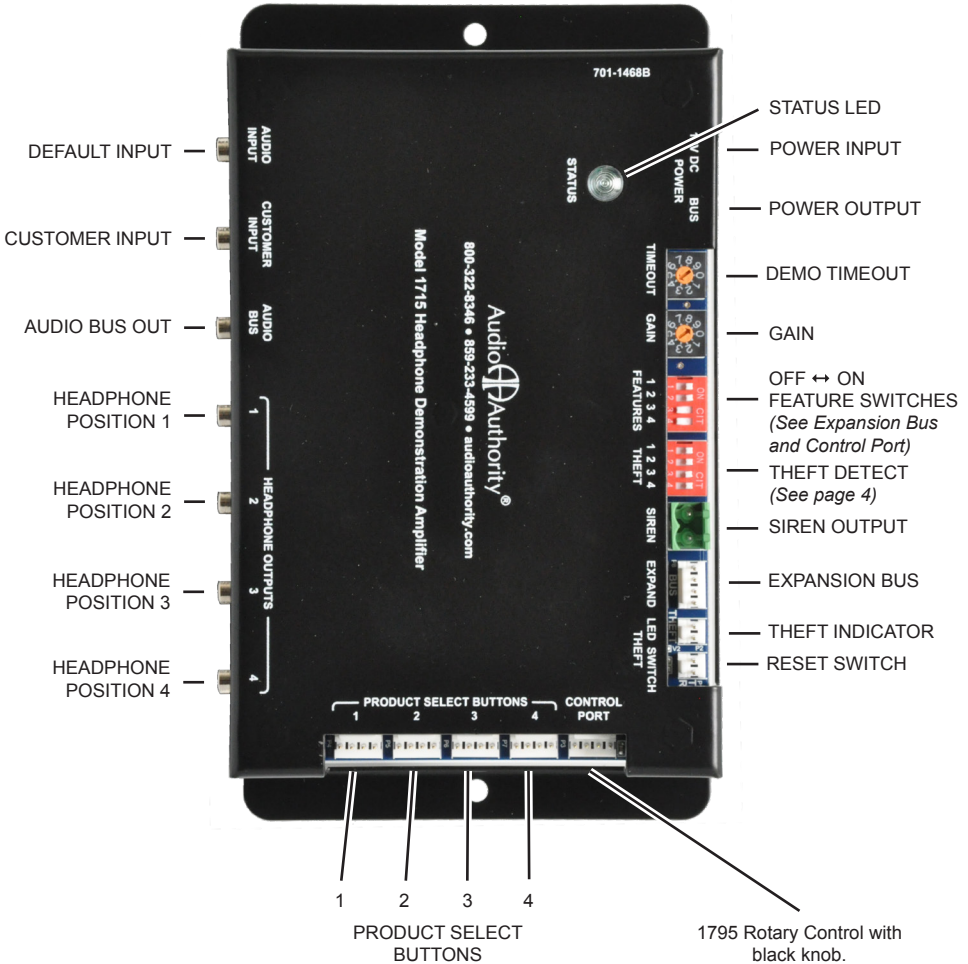### Headphone Demonstration Amplifier

AudioAuthority®

## Introduction

The 1715 is designed to provide high fidelity amplification and theft detection for headphones in self service retail demonstrations. Only one of the four outputs may be active at any one time. Larger switching systems, linked by Expansion Bus and audio patch cords, can allow one live position on each 1715 or one live position in the entire system (*see Expansion Bus*). When a demo session times out, the headphones are silent. The next demo starts at the default volume, regardless of the volume level of the previous demo. For best results use a commercial grade lossless audio player such as our Model 1703.



DEFAULT INPUT

CUSTOMER INPUT

AUDIO BUS OUT

HEADPHONE POSITION 1

HEADPHONE POSITION 2

HEADPHONE POSITION 3

HEADPHONE POSITION 4

STATUS LED

POWER INPUT

POWER OUTPUT

DEMO TIMEOUT

GAIN

OFF ↔ ON
FEATURE SWITCHES
*(See Expansion Bus and Control Port)*

THEFT DETECT
*(See page 4)*

SIREN OUTPUT

EXPANSION BUS

THEFT INDICATOR

RESET SWITCH

PRODUCT SELECT BUTTONS

1795 Rotary Control with black knob.

**Package Contents:** 1715 headphone demonstrator, DC power adapter

## Features

- Up to 500 mW (*into 32 ohms*), frequency response 12Hz - 23kHz (+/- 0.5 dB), S/N ratio 96dB, THD+N (1VRMS @ 1 kHz) = 0.07%
- Adjustable demonstration timeout, returns to silent mode, resets volume
- Automatic selection of customer audio source when connected
- Theft detect option with integral alarm and external siren contacts
- Multiple units (up to four) can share source signal and volume controls
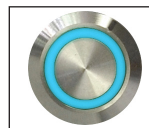
## Audio Sources and Customer Auto Demo

Connect a 1703 music player to the Audio Input jack as the default source. If desired, provide a 3.5mm cord connected to the Customer Input so that customers may use their own music players to demonstrate headphones. When audio is detected on the Customer Input jack, the customer device is automatically selected as the audio source. If no audio is detected on the Customer Input for 3 seconds, the 1715 switches back to the Default Input.

## Audio Bus Out

The bus output feeds the currently selected audio input to more 1715 modules or other audio devices in the system. Connect a 3.5mm patch cord from the first 1715 bus output to the second 1715 default Audio Input, etc. One linked system sharing a Default Input also must share one Customer Input (*do not use any Customer inputs besides the first 1715*).

## Product Select Button (PSB) Ports

Customers can activate one product at a time using a four-wire LED push-button switch (sold separately). Connect a button for each corresponding product. The LED in the button blinks during the demonstration.

Buttons are available in several styles and colors.

## Expansion Bus

Expansion Bus is a four-conductor cable that allows multiple 1715 modules to form one coordinated system. They can coordinate current product selection and volume control, as well as alarm signals and alarm reset. The expanded system may allow one output per 1715 module to play (Module Mode), or one output for the entire system (System Mode). Turn on Feature Switch 1 of each 1715 to activate System Mode.

## Control Port

To control volume on all outputs, connect a 1795 Visual Volume™ Control knob (sold separately). This control option gives visual feedback with its glow ring, its brightness indicating volume changes; a slow pulse highlights the knob during attract mode. Push to mute, and rotate knob to adjust volume. Turn on Feature Switch 2 of the primary 1715 when using one 1795 to control multiple 1715 amplifiers.
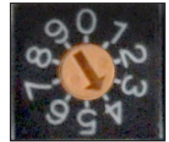
1795 Visual Volume Control knob.

## Timeout Interval

The demo timer is initiated each time a customer selects a product output to audition. The demonstration length is set by the timeout switch, in 15 second increments. If the switch is set to 0, then the automatic demonstration timeout feature is disabled. After the timeout expires, all outputs are de-selected and the volume is reset.

## Power

Connect included 12V power supply to Power Input. Connect jumper to other 1715 units if desired, up to four units total.

## How to Set the Gain Control



GAIN DIAL

• Raise the volume controls (on the player and/or 1715) to maximum.

• Connect a pair of headphones to the 1715 that has similar impedance and sensitivity to the range of headphones you wish to demonstrate.

• Turn the 1715 Gain dial (*see chart below*) to 1 and start the music player.

• Select a headphone position, and raise the 1715 Gain dial to the point of distortion, then adjust it down to the desired maximum level.

| Gain | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|-----|-----|-----|---|----|----|----|-----|-----|-----|
| *(mW) | 0.9 | 1.5 | 3.2 | 5 | 13 | 30 | 70 | 185 | 475 | 500 |

*Power rating taken at 1% THD+N, 1kHz input, using 32 ohm load.

## Theft Detection

1715 theft detection (off by default) is compatible with most headphone models, including models with active circuitry such as noise cancelling. Activate theft detection using the Theft Detect switches. All devices should be tested for proper detection behavior upon installation. If detection does not work for a particular device, disable detection for that port. For more information go to *www.audioauthority.com/product_details/1715*.

## Operation

On power up, the status light blinks to show normal operation. Press a product select button to demo headphones. The default volume level is a percentage of the maximum, relative to the Gain setting. When the Customer Input is being used, the Status light blinks rapidly. If used, the 1795 volume control light ring pulses in attract mode and indicates volume levels during a demo.