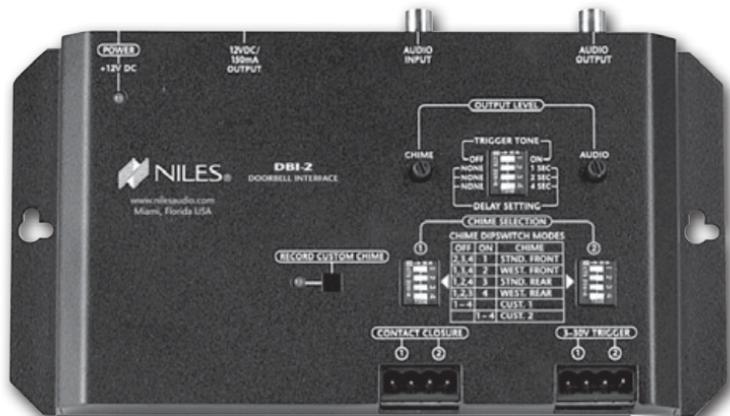




## INSTALLATION GUIDE



### DOORBELL INTERFACE

# DBI-2

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## CONGRATULATIONS!

Thank you for choosing the **DBI-2 Doorbell Interface** from Niles. With proper installation and operation, you should enjoy years of trouble-free use.

Niles manufactures the industry's most complete line of custom installation components and accessories for audio/video systems. To see the complete Niles product assortment, visit us on the Internet at: **[www.nilesaudio.com](http://www.nilesaudio.com)**

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## INTRODUCTION

The DBI-2 Doorbell Interface provides pleasant doorbell chimes throughout a home installed with a Niles MultiZone or other compatible music system. External contact closure and voltage triggers (for both a front and rear door) are combined with a programmable trigger tone/delay to integrate with Niles MultiZone and similar control systems.

The DBI-2 includes a choice of four pre-recorded and two custom recordable chimes to provide the appropriate doorbell chime for any home. A UL-listed, universal voltage power supply is included for your convenience.



## FEATURES AND BENEFITS

- Provides doorbell chimes to Niles MultiZone and similar control systems
- Four selectable preprogrammed chimes and two user recorded sound options
- Two doorbell inputs, triggered by voltage or contact closure via a screwless two piece connector
- Both doorbell inputs support standard or lighted doorbell buttons
- Separate level adjustments provided for chime and page pass through
- One gold-plated mono audio sensing input
- One gold-plated mono audio output
- UL-listed in-line power supply with universal voltage capability
- Two-year limited warranty

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## **PARTS GUIDE**

The DBI-2 package includes the following parts:

- One (1) DBI-2 Doorbell Interface
- One (1) Set of Rubber Feet
- One (1) Universal Voltage Power Supply
- One (1) Installation Guide

After unpacking and before installation, the installer should carefully inspect the contents. If any damage is discovered due to shipping, the installer should contact Niles Audio for assistance (see back cover contact information).

## OPERATION OVERVIEW

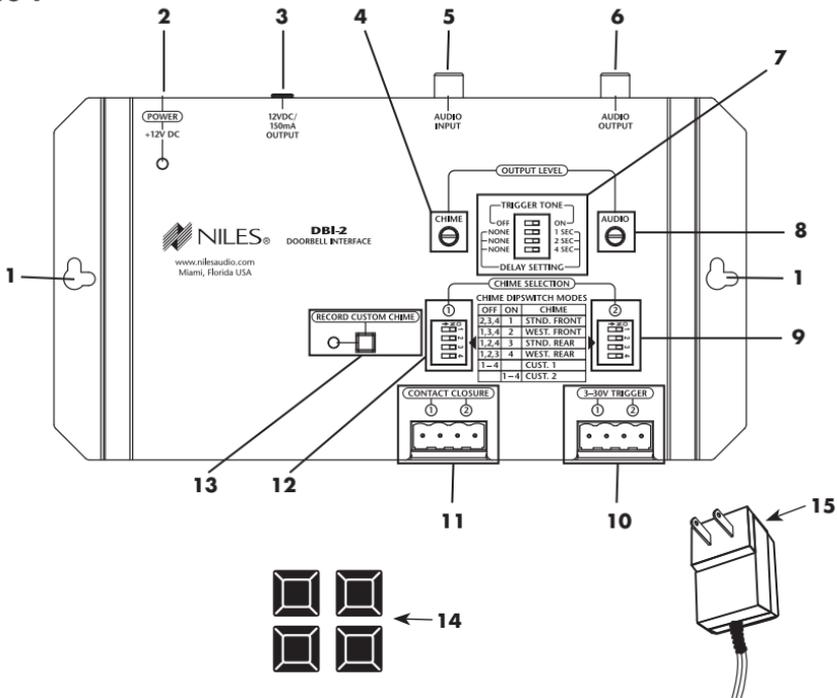
- The DBI-2 is operated by the doorbell switches and automation systems that connect to the contact closure or voltage trigger inputs. Triggers for two individual chimes (Chime Selection 1 & Chime Selection 2) are provided for a front and rear door.
- Both doorbell connections support standard and lighted doorbell buttons in any combination and provide the voltage to light the button when required.

## PRODUCT OVERVIEW

- 1)** Screw Holes for Mounting (screws not included)
- 2)** DC Power Jack and red LED Power Indicator
- 3)** 12V DC 150mA Voltage Trigger Output when Chime is Activated
- 4)** Chime Output Level Adjustment
- 5)** RCA Audio Input
- 6)** RCA Audio Output
- 7)** Trigger Tone and Delay Settings
- 8)** Audio Output Level Adjustment
- 9)** Door 2 Chime Selection DIP Switches
- 10)** Chime 1 and 2 Voltage Triggers
- 11)** Chime 1 and 2 Contact Closure Triggers with Lighted Doorbell Button Support
- 12)** Door 1 Chime Selection DIP Switches
- 13)** Custom Chime Record Button and Record Indicator
- 14)** Rubber Feet for Tabletop Mounting
- 15)** UL-listed, Universal Voltage Power Supply

## PRODUCT OVERVIEW (Continued)

Figure 1



## INSTALLATION CONSIDERATIONS

- Included mounting wings and rubber feet provide for either tabletop or screw down mounting (see **Figure 1** on page 7).
- The included UL-listed, universal voltage power supply provides power to the DBI-2 (see **Figure 2** on page 10).
- The DBI-2 connects to the Paging Input of a Niles MultiZone Control System using a standard audio cable with male RCA connectors (see **Figure 2** on page 10).
- A paging system connects to the Audio Input of the DBI-2 using an RCA audio cable (see **Figure 2** on page 10).
- Doorbell momentary contact closure and momentary voltage triggers connect to the DBI-2 using two conductor wire (see **Figure 2** on page 10).
- Two constant Voltage Trigger Inputs support lighted doorbell buttons (see **Figure 3** on page 11) and are compatible with existing chimes.

## INSTALLATION

### MOUNTING THE DBI-2

Once you have decided on the location for the DBI-2 (generally near the location of the Niles MultiZone Control System), make sure that the 12V DC power adapter and all cables are disconnected before mounting.

The DBI-2 can be either mounted on the back of a cabinet or on a wall using screws (not included). Also, it can be placed on a shelf using the included adhesive rubber feet (see **Figure 1** on page 7).

### CONNECTING THE DBI-2

1. Connect the Audio Output of the DBI-2 to the Paging Input of a compatible Niles MultiZone System (see **Figure 2** on page 10).
2. (Optional) Connect the Audio Output of a paging system to the Audio Input of the DBI-2 (see **Figure 2** on page 10).
3. Connect standard or illuminated doorbell buttons to the Contact Closure connections (see **Figure 2** on Page 10).
4. For homes with existing doorbell chimes that will be retained, connect the existing wiring to the 3-30V Trigger (see **Figure 3** on page 11)
5. (Optional) Connect the 12V DC Voltage Trigger Output to a voltage activated device. (see **Figure 2** on page 10).
6. Connect the included 12V DC in-line power adapter's voltage output plug into the DBI-2's power jack and then plug its AC power cord into an unswitched AC outlet (see **Figure 1** on page 7). The red LED power indicator will illuminate to confirm proper power connection.

(CONTINUED ON NEXT PAGE)





## INSTALLATION SETTINGS

**Contact Closure Triggers** - Contact closure trigger inputs provide for two independent chime triggers. Buttons for these triggers may be standard (no light) or lighted. When triggered, the selectable trigger tone, assigned delay and chime are executed.

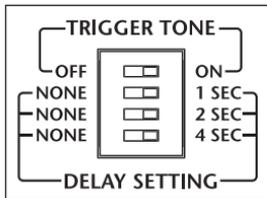
**3V-30V Voltage Triggers** - Voltage trigger inputs provide for two independent chime triggers. When triggered, the selectable trigger tone, assigned delay and chime are executed. *(See Figure 3 on page 11)*

***NOTE:** VOLTAGE TRIGGERS ARE NOT POLARITY DEPENDENT AND ARE COMPATIBLE WITH AC AND DC VOLTAGES*

**Chime and Audio Level Adjustments** - Adjustable output level for the selected chime and the connected paging system.

***NOTE:** THE AUDIO LEVEL ADJUSTMENT DOES NOT AFFECT AN AUDIO INPUT SIGNAL THAT IS BEING RECORDED FOR A CUSTOM CHIME. THE CUSTOM CHIME LEVEL MUST BE ADJUSTED EXTERNALLY AT THE AUDIO SOURCE. **IMPORTANT:** ADJUSTING THE CHIME AND AUDIO LEVEL MAY IMPROVE SOUND QUALITY.*

## INSTALLATION SETTINGS (Continued)



**Setting the Tone/Delay** - Four DIP switches provide a selectable trigger tone and various delays between when a chime is triggered and when the chime is actually generated.

Turning switch 1 ON enables a trigger tone that activates the audio sensing of the Paging Input of a Niles MultiZone System. Switches 2, 3 and 4 ON enable delay times. The delay time provided for each switch is indicated in the table.

Delay times are summed together when multiple switches are selected (e.g. 2 and 3 = 3 seconds). There is no delay included if none of these DIP switches are selected.

- NOTES:**
1. THE CHIME CONTACT AND VOLTAGE TRIGGERS ARE IGNORED DURING A CHIME.
  2. A TRIGGERED CHIME HAS A SHORT RECYCLE TIME AFTER THE COMPLETION OF PLAYBACK. DURING THE RECYCLE, NO CHIME WILL PLAY IF A CONTACT CLOSURE IS ACTIVATED.

### RECOMMENDED TONE/DELAY SETTINGS

Niles MultiZone System	Recommended Setting
Niles ZR-4	Tone On (1) no delay
Niles ZR-6	Tone On (1) no delay
IntelliControl® ICS GXR2	Tone On (1) no delay

(CONTINUED ON NEXT PAGE)

## INSTALLATION SETTINGS (Continued)

**Chime Selection** - Two banks of DIP switches (Chime Selection 1 and Chime Selection 2) provide independent selection of all the available chimes. The lowest number DIP switch takes priority if more than one switch is selected. The table below identifies the selectable chime for each DIP switch.

Off	On	Chime
2,3,4	1	Standard Chime Recommended for a Front Door
1,3,4	2	Westminster Chime Recommended for a Front Door
1,2,4	3	Short Standard Chime Recommended for a Rear Door
1,2,3	4	Short Westminster Chime Recommended for a Rear Door
All	None	Recorded Custom Chime 1
None	All	Recorded Custom Chime 2

**NOTE:** IF MORE THAN ONE SWITCH IS ON, THE TONE OF THE LOWEST SWITCH WILL BE HEARD.

*EXAMPLE 1: 3 + 4 ARE ON. YOU HEAR SHORT STANDARD (#3)*

*EXAMPLE 2: 1 + 3 + 4 ARE ON. YOU HEAR STANDARD (#1)*

**Recording a Custom Chime** - Two mono analog audio signals may be recorded by the DBI-2 to create Custom Chimes. Analog signals to be recorded connect to the Audio Input. Stereo audio signals can be adapted to mono using an RCA "Y" adaptor cable.

The DBI-2 was designed to record a Custom Chime at the same volume as the selectable chimes when presented with a signal at the level of the typical CD player (@ 2V RMS). The headphone output of many laptops achieves this level. If you choose to use a laptop as your source, start with the volume at full and adjust for the best sound quality. As the DBI-2 depends on externally adjusted record levels, some trial and error may be required to obtain an exact match between a Custom Chime and a selectable chime.

## INSTALLATION SETTINGS (Continued)

### RECORDING CUSTOM CHIME 1

- Connect your audio source to the AUDIO INPUT connector
- Wire a temporary button to Contact Closure 1 terminals
- Press and hold the RECORD CUSTOM CHIME button
- While holding the RECORD CUSTOM CHIME button press and release the temporary button
- Release the RECORD CUSTOM CHIME button. The LED next to the button will now be lit solid red.
- Start playback of the analog audio source. Recording will start automatically. During recording the red LED will blink.
- To start recording manually press the RECORD CUSTOM CHIME button.
- Recording will automatically stop after 25 seconds
- If you wish to stop recording early, press the RECORD CUSTOM CHIME button

### RECORDING CUSTOM CHIME 2

- Connect your audio source to the AUDIO INPUT connector
- Wire a temporary button to Contact Closure 2 terminals
- Press and hold the RECORD CUSTOM CHIME button
- While holding the RECORD CUSTOM CHIME button, press and release the temporary button
- Release the RECORD CUSTOM CHIME button. The LED next to the button will now be lit solid green.
- Start playback of the analog audio source. Recording will start automatically. During recording the green LED will blink.
- To start recording manually, press the RECORD CUSTOM CHIME button.
- Recording will automatically stop after 25 seconds
- If you wish to stop recording early, press the RECORD CUSTOM CHIME button

## SPECIFICATIONS

### Audio

Chime: 100 Hz ~ 3 kHz, +/- 3 dB

Audio Pass Through: 20 Hz ~ 20 kHz, +/- 0.5 dB

### Trigger Inputs

Voltage Trigger Input: 3V-30V AC/DC

Contact Closure Inputs: < 10 ohms

### Power Supply

Input: 100-240V AC 50-60 Hz 0.5 A

Output: 12V DC 1.25 A

### Unit Dimensions

7-7/8" W x 4-1/8" H x 1" D

20 cm W x 10.5 cm H x 2.5 cm D

## LIMITED WARRANTY

Niles Audio Corporation ("NILES") warrants to the original retail purchaser only that this product will be free of manufacturing defects in material and workmanship for the following periods and subject to the limitations and exclusions set forth below:

Lifetime Warranty

All Passive Loudspeaker Products (those not requiring AC or battery power).

Ten years from the date of purchase

All Other Passive Products (those not requiring AC or battery power).

Two years from the date of purchase

All Active Products (those requiring AC or battery power).

This warranty is not transferable to subsequent purchasers of the product. To obtain warranty service, contact the authorized dealer where you purchased your product or take the unit to the nearest authorized NILES dealer (with proof of purchase – claims made without proof of purchase will be denied) who will test the product and if necessary, forward it to NILES for service. If there are no authorized NILES dealers in your area, you must contact NILES to receive a factory Return Authorization Number. DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM NILES.

Upon examination, NILES will, at its sole option and expense, repair or replace any product found to be defective. NILES will return the repaired or replaced unit to you via its usual shipping method from the factory to your address in the United States of America or Canada only. Any shipping costs for addresses outside of the United States or Canada shall be the responsibility of the purchaser. In the event that this model is no longer available and cannot be repaired effectively, NILES, at its sole option, may replace it with a different model of equal or greater value, or refund the original purchase price paid. **THE FOREGOING ARE YOUR EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY.**

This Warranty does not include service or parts to repair damage caused by improper use or handling, including but not limited to the damage caused by accident, mishandling, improper installation, commercial use, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product by anyone other than NILES.

This warranty does not cover reimbursement for your costs of removing and transporting the product for warranty service evaluation, or installation of any replacement product provided under this warranty.

This Warranty will be void if:

- the Serial Number on the product has been removed, tampered with or defaced.
- the product was not purchased from an authorized dealer or reseller.

**THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES. NILES EXPRESSLY DISCLAIMS ALL SUCH OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, WITH RESPECT TO THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, NILES SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW, EVEN IF NILES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

Notwithstanding the above, if you qualify as a "consumer" under the Magnuson-Moss Warranty Act, or applicable state laws, then you may be entitled to any implied warranties allowed by law for the Warranty Period. Further, some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of consequential damages, so such limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the name of your nearest authorized NILES dealer, contact: NILES AUDIO CORPORATION, P.O. BOX 160818, Miami, Florida 33116-0818, or call 1-800-289-4434, 1-305-238-4373. Please be advised that NILES only sells its products via the Internet through a select group of authorized Internet dealers. These are listed on our website at [www.nilesaudio.com](http://www.nilesaudio.com). Products offered on the Internet through unauthorized Internet dealers are not covered by the NILES warranty and may be either:

- 1) goods acquired on a secondary or grey market
- 2) counterfeit or stolen goods
- 3) damaged, or defective goods

*Please fill in your product information and retain for your records.*

Model DBI-2

Serial No. \_\_\_\_\_

Purchase Date \_\_\_\_\_

**ATTENTION: TO OUR VALUED CONSUMERS:**

To insure that consumers obtain quality pre-sale and after-sale support and service, NILES products are sold exclusively through authorized dealers. This warranty is VOID if the products have been purchased from an unauthorized dealer.

# WARRANTY REGISTRATION CARD

Model Purchased DBI-2 Serial Number \_\_\_\_\_

Date Purchased (month/day/year) \_\_\_\_\_ Dealer Name and Location \_\_\_\_\_

Dr.     Miss     Mr.     Mrs.     Ms.

Name \_\_\_\_\_ Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Tel (    ) \_\_\_\_\_

Please take a moment to fill out our warranty registration card. The information helps us to get to know you better and develop the products you want

**Age:**

- Under 25
- 25-34
- 35-44
- 45-54
- 55 & over

**Income:**

- Under \$24,999
- \$25,000-\$44,999
- \$45,000-\$74,999
- \$75,000-\$99,999
- \$100,000-\$129,999
- Over \$130,000

**Occupation:**

- Arts/Entertainment
- Business Owner
- Engineer
- Finance/Accounting
- General Office
- Management
- Professional
- Sales/Marketing
- Student
- Tradesperson

**Musical tastes: (Please check**

**all that apply)**

- Alternative
- Classical
- Country
- Jazz
- New Age
- Popular
- R&B
- Rock
- Other \_\_\_\_\_

**How did you hear about Niles?**

- Architect/Developer
- Custom Installer
- Direct Mail
- Friend/Family
- In-Store Display
- Interior Designer
- Magazine Ad
- Mail-Order Catalog
- Newspaper Ad
- Product Brochure
- Product Review
- Retail Salesperson
- E-Mail

**What magazines do you read?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Who will install the product?**

- Custom Installer
- Electrician
- R&B
- Friend
- Myself

**Which factor(s) influenced the purchase of your Niles product?**

**(Please check all that apply)**

- Ease of Use
- Price/Value
- Product Features
- Quality/Durability
- Reputation
- Style/Appearance
- Warranty

**Do you . . . ?**

- Own a House. If yes, how many square feet? \_\_\_\_\_

- Own a Town House/Condominium/Co-op
- Rent an Apartment
- Rent a House

**Are you interested in receiving literature on other Niles products?**

- Yes     No

**Are there products/capabilities that you would like to see introduced?**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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