

HomeISA™ Read Me File

This file contains the Installation Guide and User Guide for Applied Future Technologies, Inc.'s HomeISA™ card hardware and software for use with HomeVoice™.

HomeISA™ Installation Guide

1 Hardware Installation - ISA card

CAUTION - Do NOT plug any cables into an installed HomeISA™ card when the PC is powered on. Make sure your PC is off before plugging in the cables or installing the card. Failure to follow this warning can result in permanent damage to the card or your PC.

- 1.1 Shutdown the PC and turn off the power.
- 1.2 Open the PC case and install the HomeISA™ card in an available ISA slot. Refer to your PC documentation for additional info on installing hardware.
- 1.3 Insert the Infrared emitter provided in J1 or J2 . (see Figure 1 and Table 1 for locations)
- 1.4 Insert the Infrared receiver provided with the card in J4.
- 1.5 Insert the X10 control cable (looks like a phone cord) in the RJ11 port on the card. Connect the other end of this cable to the Powerline Interface Module supplied.
- 1.6 Recheck the card to make sure it is still properly seated after the cables have been installed.
- 1.7 Close the PC and turn the power back on.
- 1.8 Select a house code (A-P) and device code (1-16) on the lamp module provided. You will use this code to identify this Lamp Module when testing below and in HomeVoice™ . These codes are set via the two dial switches located on the front of the module.
- 1.9 After codes have been set, plug the Powerline Interface Module and the Lamp Module into active 110V outlets. Then plug a light into the Lamp Modules. Manually turn the lamp on. (The light may not come on due to the state of the module.)

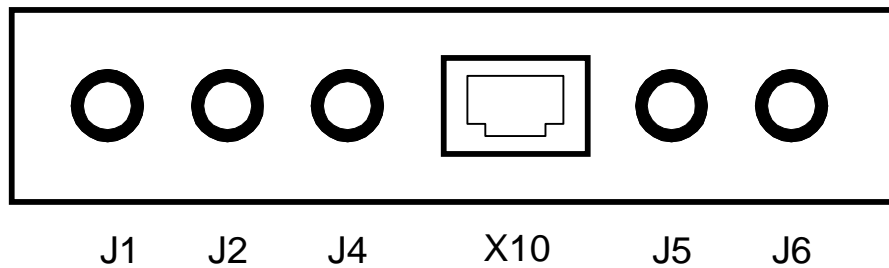


Figure 1. HomeISA™ Connections - Side View.

J1	Infrared 2 Out
J2	Infrared 1 Out
J4	Infrared In
X10	Powerline X10
J5	Temperature 2 In
J6	Temperature 1 In

Table 1. HomeISA™ Connections.

2 HomeVoice™ Software installation

See detailed instruction inside the HomeVoice™ CD case and in the Readme.1st file on the CD.

- 2.1 Insert the HomeVoice™ CD into the CD drive on the system.
- 2.2 Run the HomeVoice™ installation script.
- 2.3 Enter the directory to install HomeVoice™ into when asked.
- 2.4 Pick any controller when asked to pick a controller. (The selection will be changed manually, to “homeisa”, after installation.)
- 2.5 Enter any communications port when prompted. (HomeISA™ does not use a comm port.)
- 2.6 Enter the name of the response file when prompted. This is the file which will contain the responses that HomeVoice™ will provide in response to commands issued. Accept the default of Homevoic.res.
- 2.7 Enter irdata.dbf when prompted for the name of the infrared database file.
- 2.8 Accept the default for the time-out value when prompted.

3 Installation of the HomeISA™ Software Interface

- 3.1 Insert the HomeISA™ diskette provided into the diskette drive of the system.
- 3.2 Run “setup” on the diskette. This will copy the necessary files and update the .ini file to work with the HomeISA™ card. You will be asked to accept the license agreement.
- 3.3 The installation script will prompt you for the destination directory. Select the directory where you installed HomeVoice™.
- 3.4 You will be prompted if you want to have voice responses to X10 events. Click Yes or No.

4 Testing the HomeISA™ card operation

- 4.1 Run the HomeISA™ program by selecting Start, Programs, HomeVoice, and selecting the HomeISA™ icon.
- 4.2 Select ‘X10’ from the ‘Test’ menu.
- 4.3 Select the house code from the dialog that was selected for the Lamp module (from step 1.8).
- 4.4 Select the device code of the lamp module (from step 1.8)
- 4.5 Select ‘on’ from the command menu.
- 4.6 Click the ‘Test’ button. (The light should turn on.)
- 4.7 Select ‘off’ from the command list and click ‘Test’. (The light should turn off.)

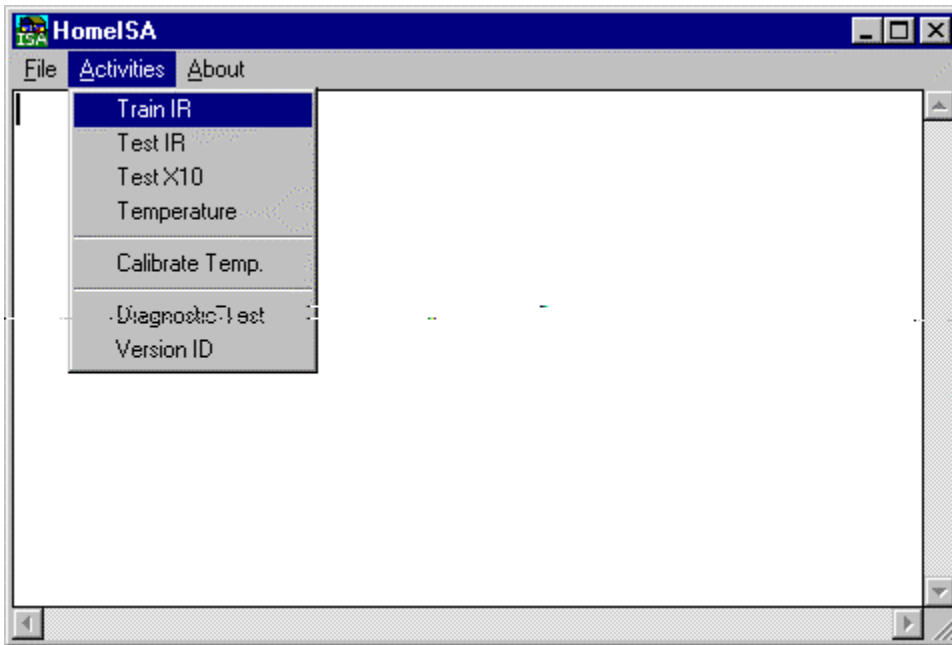
HomeISA™ Users Guide

The HomeISA™ software is used primarily for testing and setup of the HomeISA™ card for use with HomeVoice™ software application. The HomeISA™ installation process establishes an Infrared database file. With this Infrared database, it is possible to use the infrared command capabilities as described below.

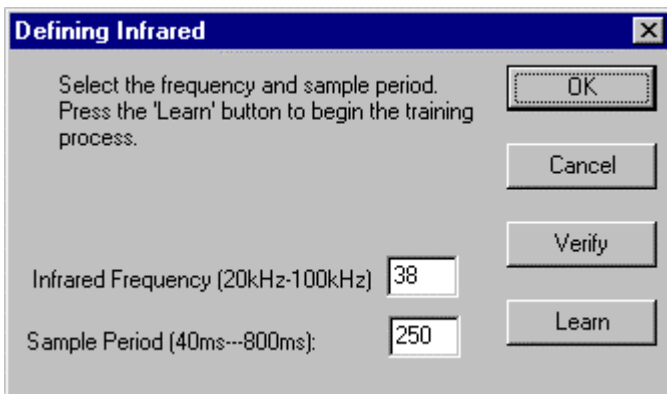
To start the HomeISA™ software, click **HomeISA..** in the **File** menu in the **HomeVoice** window.

Setting up the Infrared database

From the **Activities** menu, select **Train IR**.

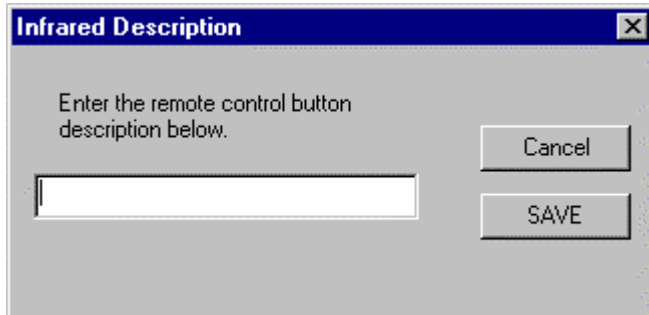


You are presented with a dialog in which you can select the Infrared frequency and sample period. This is used when having difficulty with training a specific remote control. In general, the default values specified should work for most remote controls. Consult the manual for your remote or the remote's manufacturer for values if you are having difficulty getting a remote trained.



To build your infrared database, click on the **Learn** button.

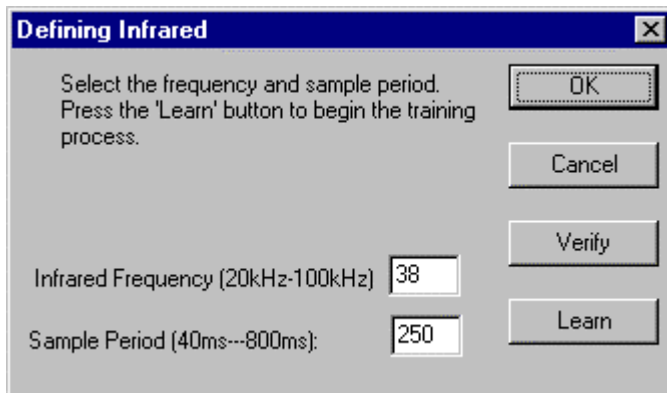
The dialog prompts you to press the button on the remote you want to train. Point the remote at the Infrared receiver taking care to make sure you are within a two feet of the Infrared receiver. Press and release the button on the remote to be trained.



Enter a button name, up to 20 characters, that will be stored in the Infrared database to be used to refer to this specific Infrared command. Click the **SAVE** button to record your button name.

Note: Numeric digits should be used for channel and remote digits buttons only.
Do not use numeric digits to distinguish between two components. (e.g. TV 1 and TV 2 for two different televisions.)

After entering the button name, you are returned to the original training dialog with a message that the button has been learned successfully.



At this point you may verify the signal by pressing the **Verify** button. Pressing the **Verify** button will send the signal out both IR emitter ports. If an emitter is properly connected to the piece of equipment that the signal is for, the equipment should respond accordingly.

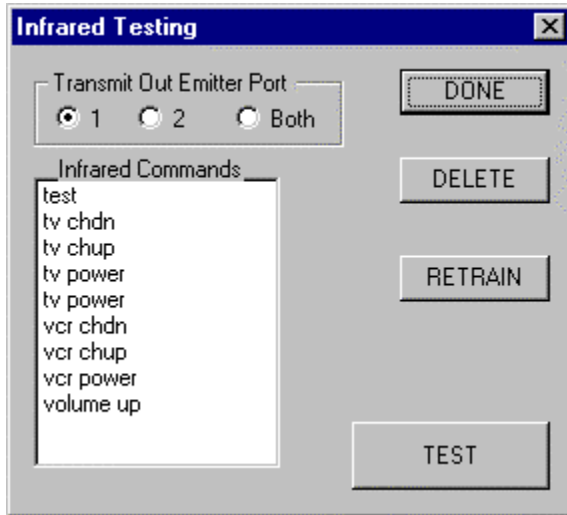
Note: Proper placement of the emitters on the equipment is crucial. Many electronic components have a rather large area for IR pickup; for others, the IR pickup area is very small. Consult your owners manuals for the equipment if you can not determine the proper IR pickup area location.

Continue this process until the all the desired buttons on your remotes have been trained. You may add additional buttons or remotes at any time.

Testing the Infrared Database

From the **Activities** menu, select **Test IR**.

You are presented with the 'Infrared Testing' dialog.



Select the **Emitter Port** out of which you desire to transmit the signal.

Select the **Infrared Command** you desire to transmit.

Press the **TEST** button and the signal will be transmitted out the selected port(s). The equipment corresponding to the IR signal should respond accordingly if the IR emitter is properly placed.

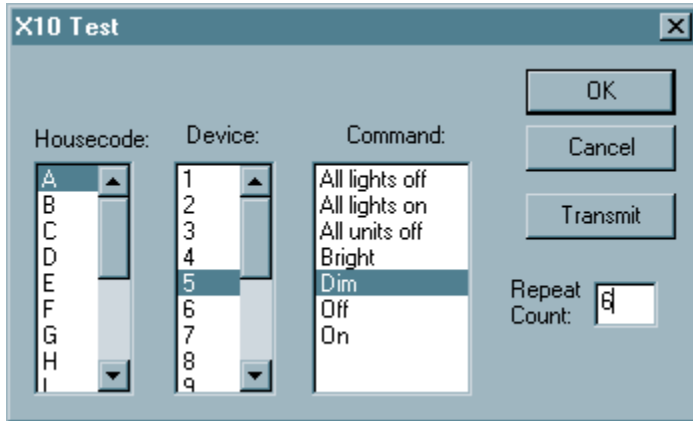
You may retrain a command that does not function properly by selecting the command and pressing the **RETRAIN** button. You may also rename Infrared commands in this way.

If you wish to delete commands from the infrared database select the command to be deleted and press the **DELETE** button.

Sending X10 Commands

Select **Test X10** from the **Activities** menu.

In the dialog presented, select the '**Housecode**', '**Device code**' and '**Command**' to transmit.



Press the transmit button and the command selected will be transmitted to the device identified.

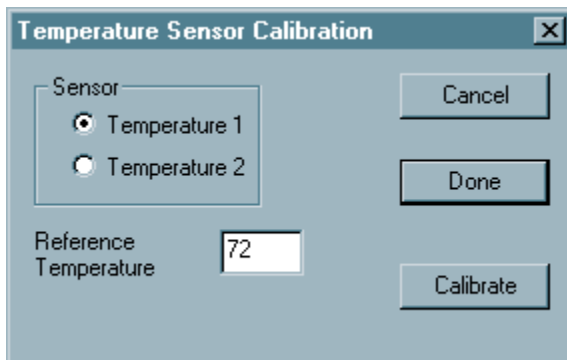
Calibrating the Temperature Sensors

(You may want a thermometer for this process.)

DO NOT PLACE THE TEMPERATURE SENSOR IN LIQUID. DOING SO WILL DAMAGE THE SENSOR AND CARD!!!

From the **Activities** menu, select **Calibrate Temp.**

From the dialog, select the **Temperature Sensor** port you wish to calibrate. Enter the **Reference Temperature**. This is the temperature you read from a thermometer located next to the sensor.



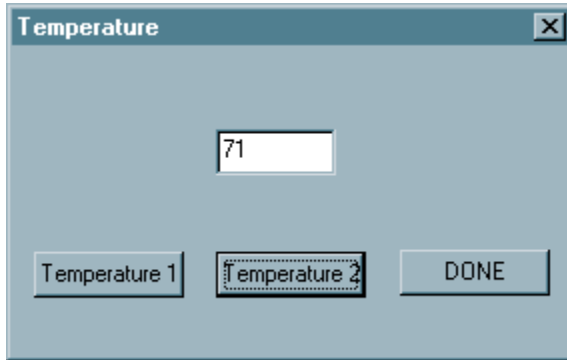
Press **Calibrate** and the sensor will be calibrated based on the information input.

Repeat this procedure if you have a second sensor.

Getting the Temperature from a temperature sensor

From the 'Activities' menu select 'Temperature'.

Press the button for the **temperature sensor** you wish to get a reading from.



The temperature read from the sensor will be displayed.

Congratulations, you are now ready to run HomeVoice™ using the HomeISA™ card.

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