



*Welcome to HAL2000 by Home Automated Living.*

HAL2000 is the software operating system for your home. It will give you complete voice control of all X-10 compatible devices as well as more than a dozen additional interfaces for custom system hardware. This quick start document will get you going. But only a thorough reading of the HAL2000 help file will give you a true understanding of the power and possibilities of HAL2000.

✓ **Please read this entire document before proceeding.**

There are a few simple steps necessary to complete the setup of the HAL2000:

1. Install the Hardware
2. Load the Software
3. Test your Voice/Modem
4. Run HAL Setup
5. Start the Program
6. Register your Software
7. HAL is up and running
8. Assign your X-10 Devices
9. Begin using HAL

## **Getting Started**

You'll want to become as familiar as you can with the HAL Help file. It is available through your System Start menu under Programs/HAL2000. This can be printed and used as a system manual or can be accessed through topical questions.

Your system should already have a voice/modem card plugged in and configured. Also, your PC should be the first component in-line with your outside phone service, in effect, turning all phones into microphones which connect to the computer by simply pressing the # key.

## **Step 1: Installing the Hardware that came with HAL2000**

The HAL2000 comes complete with the following hardware:

- CM11A Interface
- CM11A Interface Cable
- Lamp Module

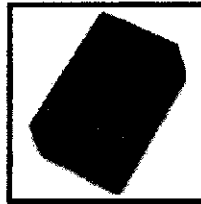
Turn off computer. Insert the serial connector end of the cable to an open serial port on the computer. Insert the other end of the cable into the CM11A interface. Plug the CM11A interface into an electrical outlet.



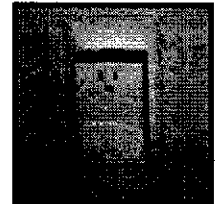
Interface Cable



Serial Port



CM11A Interface



Electrical Outlet

### **Step 1: Load the HAL2000 Software**

Restart the computer. Make sure no other software applications are running. Perform the following steps:

1. Insert HAL2000 CD in the CD ROM drive and click on the Windows95 Start button
2. Click on the Run option
3. Type in D:\Setup (where D is the Device Letter of your CD-Drive)
4. Click OK
5. Follow the instructions on the screen during the installation process.

### **Step 2: Testing your Voice/Modem Card**

HAL2000 includes a Voice Modem Test Program to check the functionality and compatibility of your current voice modem card. It will also determine proper connection of your phone to your computer. Run this program by clicking on the Start menu button, select Programs and go to the HAL2000 directory. Select the VMTD program. Follow the instructions on the screen. For questions, consult VMTD Help for more information.

### **Step 3: Run the HAL Setup Program**

Click on the Windows95 Start button, select Programs and go to the HAL2000 directory. Click on the HAL Setup program to begin. You may manually enter the Com port where your modem is connected. Or, you may choose the "Detect" option and the software will automatically search your system and determine the correct Com port. Click on "OK" to save your configuration settings.

### **Step 4: Starting the Program**

We are now ready to launch the HAL2000 program. Click on the Windows95 Start button. Select Programs and go to the HAL2000 directory. Select HAL2000. If this is your first time starting HAL2000, continue to **Step 5**. If not, proceed to **Step 6**.

### **Step 5: Registration**

A registration number is required to officially install HAL2000. Call the toll free number which appears on your screen. A Customer Service Representative (CSR) will ask you

for (1) the numbers which appear on the screen, and for (2) the serial number on the bottom of your box. The CSR will give you a **Pass Code** which you will enter at the prompt completing the installation. The HAL Customer Service/Technical Support center is open seven days a week. But if you are installing HAL2000 during a time when our Customer Service center is closed, you may choose the **30-day** option. Installation will proceed and you will have thirty days to call in for your official registration Pass Code. HAL2000 will be inoperable after 30 days without a Pass Code.

### **Step ②: HAL is up and running**

When the installation is completed, the program will automatically begin. You will hear the computer voice say, "Welcome to HAL2000 by Home Automated Living." An Ear icon will appear in your system tray (lower right-hand corner of your Windows 95 screen) along with a Telephone icon. Both are explained fully in HAL Help. HAL2000 is now running and will sit in the background while you use other PC programs.

### **Step ③: Assigning your X-10 Devices**

The quick start configuration process is almost complete. But before you can begin controlling your home by voice, you must install the introductory X-10 device that came with your HAL2000 software. X-10 is the protocol that allows HAL2000 to send commands over the power lines to every electrical outlet in the house. X-10 devices, like the lamp module that came with HAL2000, receive the power line signals and then deliver those commands to the lamp or whatever household device is attached. It is important to note that the X-10 module delivered with this software is intended for use **only** with an incandescent lighting fixture.

X-10 modules have two changeable address codes; a House Code that uses letters A through P, and a Unit Code that uses numbers 1 through 16. HAL2000 will send commands to specific devices based on the address you assign. For instance, the den lamp might be assigned D-1. A unique address should be set for each X-10 device. Use a standard screwdriver to turn the address dials. Set the Lamp Module address to B-1 and plug an incandescent lamp into the module. Plug the module into any electrical outlet. Be sure the lamp switch is in the on position and the bulb lit.

Make sure HAL2000 is up and running (see **Step ②**) with the Ear icon visible in your system tray. Move the mouse cursor over the Ear icon and click on the **right** mouse button. A menu will appear on your screen. Select the System Data option from the menu. Choose the Devices tab on the System Data screen.

Choose the "Add" button at the bottom of the Devices screen. This will display the Device Wizard. Each device may have up to three location words to define the device. When naming a device, make it a name that will be easily remembered yet unique. Be as specific as possible. For example: Front Porch Lights.

1. Click on the top box. Type in the name of the first location word to describe where this device is located (i.e. living room). For now, enter the word, "Test". For this example, the 2nd and 3rd description boxes are not used.

2. Select the type of device. In this case, you will select "X-10" for lights and appliances. Other options include "IR" if the device is controlled through infrared, or "HVAC" if the device deals with heating and cooling.
3. Now enter the Device - in this case, type "Light".
4. Choose "Next".

Now you will tell the computer what address you have assigned to your device. Remember earlier, we set the Lamp Module to B-1. On this screen you will recreate the identical X-10 address. Simply click on the same House Code (B) and Unit Code (1). The box below the dials should now indicate B01. Choose "Next" at the bottom of the Wizard Screen to continue.

Choose the "On/Off" option since the device you are configuring is a light. Check the Dimmable device box. HAL2000 extends dim control to any incandescent light you connect to the system. Check to see if the appropriate signals are being sent to the device by clicking the "On" button in the menu screen. The lamp should now be on. Click the "Off" button to turn the lamp off. If the lamp does not respond, make sure the Lamp Module address is correct and that the lamp itself is set to the "on" state. Choose "Next" at the bottom of the screen to continue.

This screen allows you to assign devices to a group. Multiple devices may be controlled together as well as independently. You may want to assign a living room lamp to a *downstairs lights* group, allowing you to operate it independently or as part of the entire group so that you can turn all the downstairs lights off with a single command at bedtime. Get more info on group assignments from HAL Help. Choose "OK" at the bottom of the screen to complete the device configuration.

### Step ①: Begin using HAL

The initial system configuration is complete and you may start issuing commands to HAL. Using your Left Mouse Button, click on the Ear icon in your system tray. HAL responds by saying, "Yes". You now have HAL's attention and can start to interact with your computer through your PC microphone. Start with...:

- What time is it?
- What is today's date?
- Turn Test Light On, or Turn On Test Light
- Turn Test Light Off, or Turn Off Test Light

After each command, wait for the system to respond. If HAL does not understand your command it will issue a beep and you may try again. HAL needs no training to understand your voice, but it might take some practice to get used to interacting with your PC via voice commands. Talk in a normal conversational tone without pausing between each word. When you're finished issuing commands, just say, "That's all." HAL will say, "Goodbye."

To understand and unleash the full power of HAL2000, please review the entire HAL Help file by clicking the Windows95 Start button, Programs, HAL2000, HAL2000 Help.



## IMPORTANT – READ THIS

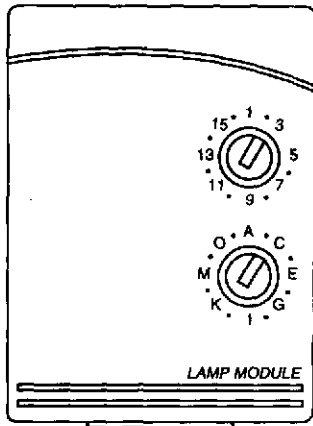
Your HAL2000 software is a living product, which is growing and evolving daily. Once you have installed and registered this version of HAL2000, visit our website at <http://www.AutomatedLiving.com> for new releases. You can also find news regarding additional features and interfaces as they are incorporated, as well as extensive information on HAL2000.

Some programs such as fax, e-mail, or voice mail applications might launch on startup. These applications will typically require the dedicated use of your voice modem. In order for the HAL2000 to provide telephony features, you will need to remove competing applications from the StartUp folder. To remove these applications, follow the instructions below:

- Right-click on the Task Bar and select Properties
- Select Start Menu Programs and click on Remove
- Click on the + sign to the left of the StartUp folder
- Click on the application to be removed and then click on Remove



# Lamp Module



The Lamp Module is designed to control incandescent loads with a rating of between 40W and 300W. Lamps rated below 40W may flicker or operate erratically.

**Note:** Lamp Modules must not be used to control appliances or fluorescent lamps.

## Setting up the Lamp Module to use with an X-10 Pro Security System

- Set the House Code dial to match the Security Console's house code. This code is downloaded by the monitoring station. The default House Code is A.
- For normal lighting control, set the Unit Code dial to an unused code which can be controlled from the Security Remote (switches 1-4 control Unit Codes 1-4) or any other desired controller.
- To use as the security light, set the Unit Code to the match the Unit Code of the security light downloaded by the monitoring station. The default security light Unit Code is 13.

**Note:** The security light is the light which is flashed on/off during an alarm and which is controlled by the security LIGHT ON and LIGHT OFF buttons on the console, keychain and security remotes).

- Plug a lamp into the Lamp Module and plug the Lamp Module into a convenient AC outlet, preferably an unswitched one to ensure that the lamp will always operate when the alarm is triggered.

## Local control

The Lamp Module includes circuitry to sense the lamp's own on/off switch to turn the lamp on locally. To switch a lamp on, turn the lamp's own switch off then on again.