INSTRUCTION MANUAL

# IREDIT

## IR LIBRARY MANAGEMENT



AV FOR AN IT WORLD
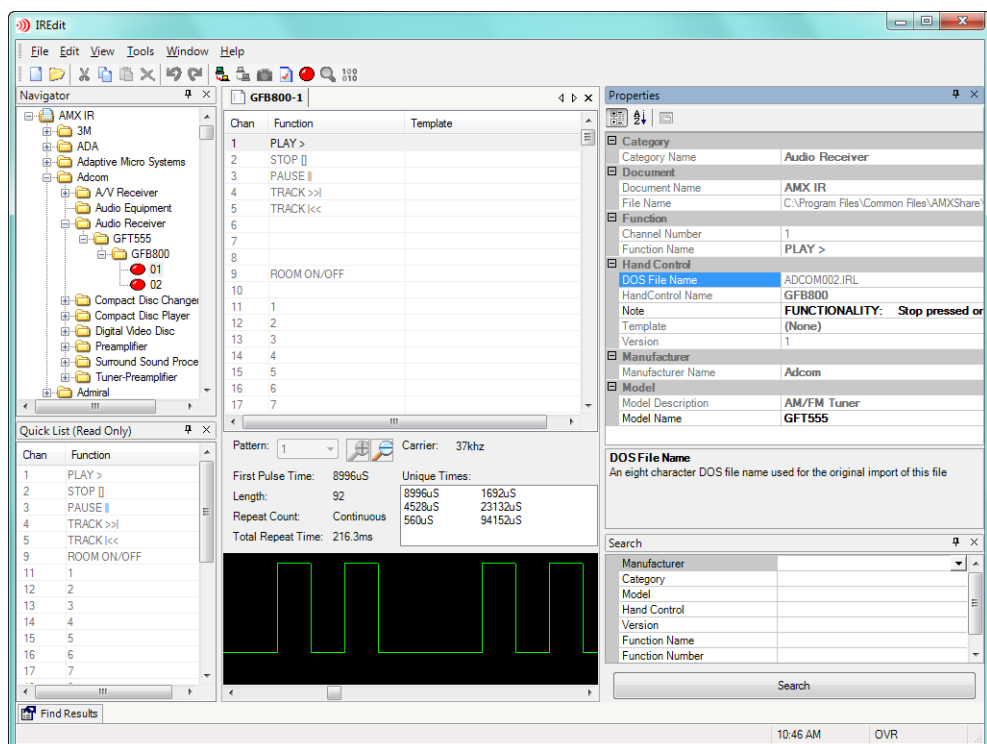
## IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE ONLY with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

ESD Warning: The icon to the left indicates text regarding potential danger associated with the discharge of static electricity from an outside source (such as human hands) into an integrated circuit, often resulting in damage to the circuit.

**WARNING:** To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.
**WARNING:** No naked flame sources - such as lighted candles - should be placed on the product.
**WARNING:** Equipment shall be connected to a MAINS socket outlet with a protective earthing connection.
**WARNING:** To reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.

## COPYRIGHT NOTICE

## LIABILITY NOTICE

## AMX WARRANTY AND RETURN POLICY

The AMX Warranty and Return Policy and related documents can be viewed/downloaded at www.amx.com.

# Table of Contents

# IREdit IR Library Management

## Overview

The IREdit application provides the ability to edit IR hand control files (.IRL, .IRV, or IR information contained within a .IRN database file) for use on Axcess and NetLinx platforms. You may rename and/or rearrange functions within a hand control, or combine functions from various hand control files into a single file.

IREdit implements a database file type, .IRN, that can also be used in NetLinx Studio. An .IRN database file is created when you create a new user database within IREdit. IREdit also provides the (read-only) AMX database containing IR files for many popular devices.

## Supported Platforms

IREdit operates on:

- Windows XP® Professional (service pack 1 or greater, running on a Pentium 233 MHZ processor (minimum requirement); 300 MHZ or faster recommended, at least 96 MB of installed memory).
- Windows XP® Home (service pack 1 or greater, running on a Pentium 233 MHZ processor (minimum requirement); 300 MHZ or faster recommended, at least 96 MB of installed memory).

*Once the .NET framework has been installed, you may follow the steps below to change your OS settings so that no login is required when the machine is booted up.*

1. While logged on with an account that has administrator rights, click Start | Run and type "CONTROL USERPASSWORDS2"

2. Once the dialog comes up, remove the check next to "Users must enter a username and password" and click Apply.

- Windows 2000® (service pack 3 or greater) Professional (running on a Pentium 233 MHZ processor (minimum requirement); 300 MHZ or faster recommended, with at least 96 MB of installed memory).
- Windows NT 4.0® Workstation (service pack 6A or greater, with at least 64 MB of installed memory).

**NOTE:** *If you are installing NetLinx Studio on a Windows NT or Window 2000 machine, you must have Administrator rights to install and run all required System files.*

- Windows 98® SE (with at least 48 MB of installed memory).

Other PC requirements:

- Windows-compatible CD-ROM drive.
- Windows-compatible mouse (or other pointing device).
- At least 250 MB of free disk space.

# The IREdit Work Area

FIG. 1 indicates the main components of the IREdit work area:
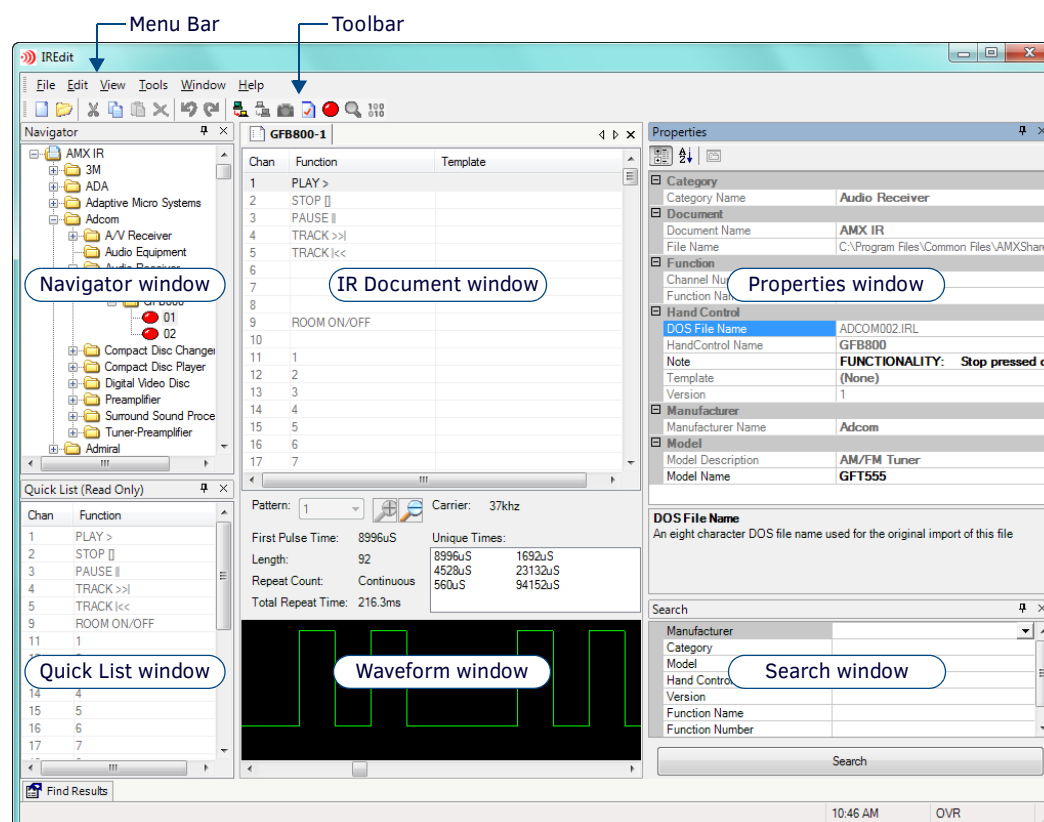


**FIG. 1** IREdit Work Area

The IREdit work area consists of individual windows which are able to be docked, moved and resized as desired. Below are the common windows found during a session.

| IREdit Work Area Components | |
| --- | --- |
| **Item** | **Description** |
| IR Document Window | This is the main window for editing IR codes. The IR Document Window contains a table indicating up to 255 IR channels and their corresponding function names. There is one IR document window per IR hand control record. |
| Navigator Window | This window allows navigation through the list of IR hand controls contained within the open database. The navigator window is set up as a tree with the IR hand controls being the leaf nodes. <br>• User codes are contained under a user designated and named node. <br>• You can have up to 50 user databases open at one time. |
| Quick List Window | The Quick List Window displays the available functions for the currently selected IR navigator node. Only slots containing data are displayed. This list is read only. |
| Properties Window | The Properties Window gives access to all the header information for a given IR record. Use this window to edit all the attributes that pertain to the overall record including hand control name, device and notes. The Notes field is edited via a popup dialog containing an edit box for typing. |
| Search Window | This feature allows you to search a database by *Manufacturer, Category, Model, Hand Control, Version, Function Name,* or *Function Number* for a specific IR file. |
| Search Results Window | Displays the results of the last search operation. |
| Menu Bar | Click on any of the main menu items to open the associated drop-down menu. The menu bar consists of *File, Edit, View, Tools, Window* and *Help*. |
| Tool Bar | Click any of the icons for a shortcut to commonly used functions. |

# IREdit Windows

## Working With Dockable Windows

All windows are both collapsible and able to be docked, moved and resized:

- Click on the thumb tack button located in the top right of each window to collapse the window down to a tab located on the side of the screen (FIG. 2):
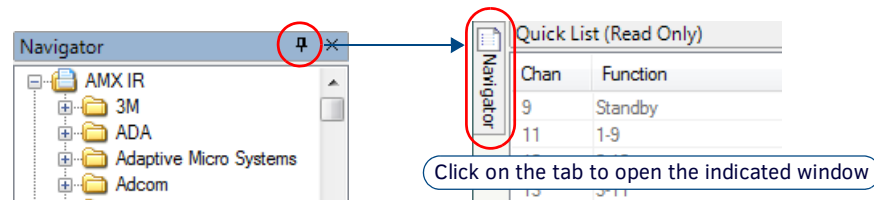
**FIG. 2**  Thumb Tack button and Window tab

- To return the window back from the tab form click on the icon with the tack turned upon its side. Clicking on the tab, in collapsed form, will activate the window until another part of the application receives focus (FIG. 3).
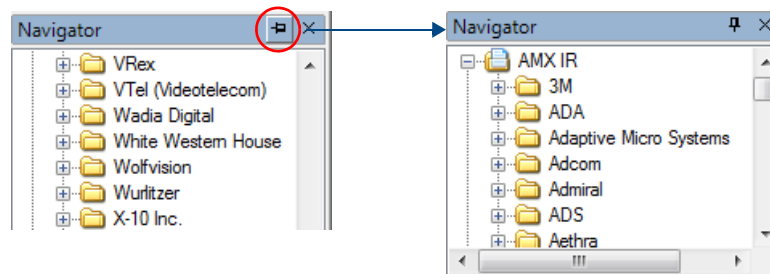
**FIG. 3**  Window tab - Thumb Tack button

- Selecting the "x" n the top right will close the window.

# IR Document Window

The IR Document window contains a list of 255 channels with the names of the functions that occupy any of those functions (FIG. 4).

| Chan | Function | Template |
|------|----------|----------|
| 42 | | |
| 43 | CALL / HANG-UP | |
| 44 | AUTO | |
| 45 | NEAR | |
| 46 | FAR | |
| 47 | SLIDES | |
| 48 | cursor ^ | |
| 49 | CURSOR v | |
| 50 | CURSOR > | |
| 51 | cursor < | |
| 52 | SELECT | |
| 53 | ZOOM + | |
| 54 | ZOOM - | |
| 55 | SNAPSHOT | |
| 56 | * | |
| 57 | # | |
| 58 | MENU | |

**FIG. 4**  IR Document Window

There is one IR document window per IR hand control file. This is the main window for editing IR files.

- If a template has been applied to the IR file, the corresponding value appears in the **Template** column.
- Tabs with the hand control file's names are present at the top of the IR Document window, allowing you to easily switch between hand control files when more than one are open.
- Right-click on a slot within the IR Document window to open the IR Document context menu:

| IR Document Context Menu | |
|---|---|
| Cut | • Cuts the selected slot to the clipboard. |
| Copy | • Copies the selected slot to the clipboard. |
| Paste | • Pastes the selected slot from the clipboard to the new slot location. |
| Delete | • Deletes the selected slot. |
| Properties | • Shows the properties for the selected hand control file in the Properties window. |

## Properties Window

Use the *Properties* window to view all of the pertinent header information for a given hand control file (FIG. 5):



**FIG. 5** Properties Window

Some fields accept text, while others have pull-down menus or activate an edit dialog (as with the *Note* field).

- The Properties window updates based upon selections made in the Navigator and IR Documents window.
- The Properties window can be sorted either by Category or alphabetically.
- All bold fields can be edited.

Right-click within a field in the Properties window to open the Properties Window context menu:

| Properties Window Context Menu | |
|---|---|
| Undo | • Simple undo support for cut, paste and deletion of text fields. |
| Cut | • Cuts the selected text to the clipboard. |
| Copy | • Copies the selected text to the clipboard. |
| Paste | • Pastes the selected text from the clipboard to the new text field location. |
| Delete | • Deletes the selected text. |
| Select All | • Selects all text within the field. |

### Templates

Within the **Properties** window you can select to apply a template. Choose templates for categories of equipment to allow them to comply with applications such as Design Xpress.

1. Within the **Properties** window under the category of **Hand Control** is the field for template. The default value is **(None)**.
2. Clicking in this field will give you a drop down menu from which to select a template.
3. Select your template. This will fill and lock particular slots in the **IR Document** window.
4. The value of the channel is displayed in the **Template** column of the **IR Document** window.
5. All fields generally necessary for the template, not properly entered appear red. All fields appropriately entered appear green.

# Waveform Window

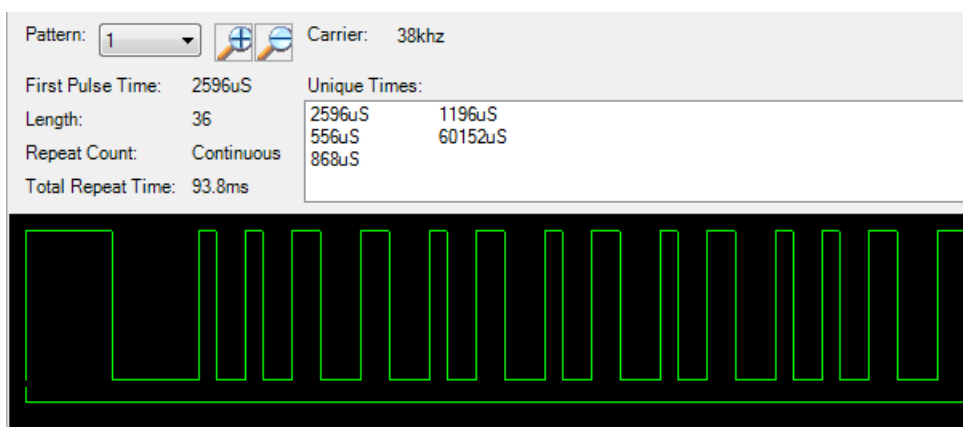Select **View > Waveform** to open the *Waveform* window (FIG. 6):



**FIG. 6** Waveform Window

The Waveform window provides detailed information on the IR pulse associated with the selected function.

- Use the Zoom In/Out toolbar buttons to adjust the view on the Waveform view.
- Use the drop down menu to select other pulse patterns in the Waveform view. This option is only available if the selected function contains more than one pulse pattern.

To view other waveforms in the file, select another slot to update the Waveform view.

# Navigator Window

This window allows navigation through the list of IR hand controls contained within the open database. The navigator window is set up as a tree with the IR hand controls being the leaf nodes.

- User codes are contained under a user designated and named node.
- You can have up to 50 user databases open at one time.

Each manufacturer folder contains a list of categories, and each category folder contains a list of models. Within each model folder is a listing of hand controls, and each hand control folder contains at least one hand control record. Some hand control folders contain multiple hand control records.

Double-clicking on a hand control file will open the file in an IR Document window.
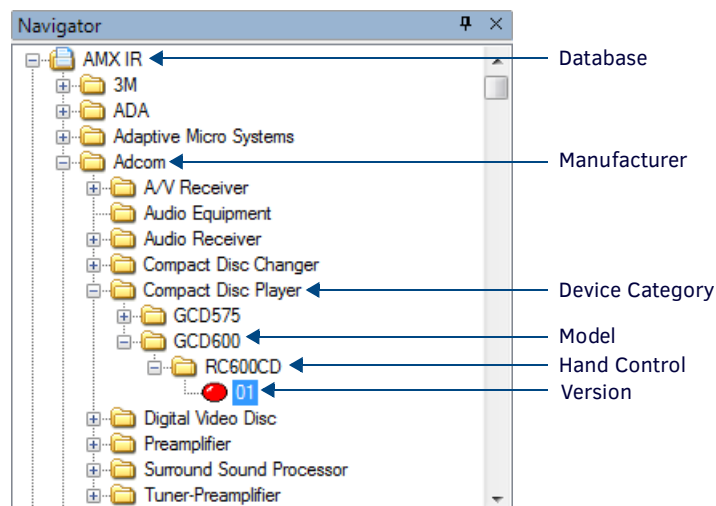


**FIG. 7** Navigator Window

Right-click within a field in the Properties window to open the Properties Window context menu:

| Navigator Context Menu | |
|---|---|
| Expand | Expands the database one level down. |
| Expand All | Expands the database down completely.<br>*Note: The AMX database can only Expand All from the model level down; user databases can only Expand All from the category level down.* |
| Close | Closes the selected database. |

| Navigator Context Menu (Cont.) | |
|---|---|
| Cut | Cuts a database to the clipboard.<br>*Note: The AMX database is read-only; therefore, cannot be cut.* |
| Copy | Copies a database to the clipboard. |
| Paste | Pastes a database from the clipboard to a user database. |
| Paste Special | Pastes any level of an IR directory into another and has the opportunity to insert the missing information. |
| Delete | Deletes a selected user database. |

## Search Window

Select **View > Search** to show the *Search* window (FIG. 8).



**FIG. 8**  Search Window

The Search window allows you to search for an IR hand control file within a specified database by *Manufacturer, Category, Model, Hand Control, Version, Function Name*, and/or *Function Number*.

## Search Results Window

The matches from the search operations are displayed in the *Search Results* window (FIG. 9).



**FIG. 9**  Search Results Window

You can access the desired IR file by double-clicking it from this list.

| Search Results Columns | |
|---|---|
| Manufacturer | The name of the function's matching manufacturers. |
| Category | The categories for the matching functions. |
| Model | The model names for the matching functions. |
| Hand Control | The name of the matching hand control. |
| Version | The version number for the matching hand control. |
| Identify | Enables the Identify dialog found in **Tools > Identify**. |

# Quick List Window

The *Quick List* window provides a read-only list of available functions for the currently selected hand control file.

| Quick List (Read Only) | | |
|---|---|---|
| Chan | Function | |
| 43 | CALL / HANG-UP | |
| 44 | AUTO | |
| 45 | NEAR | |
| 46 | FAR | |
| 47 | SLIDES | |
| 48 | cursor ^ | |
| 49 | CURSOR v | |
| 50 | CURSOR > | |
| 51 | cursor < | |
| 52 | SELECT | |
| 53 | ZOOM + | |
| 54 | ZOOM - | |
| 55 | SNAPSHOT | |

**FIG. 10** Quick List Window

- This list is displayed automatically (as long as the Quick List window is activated via the View menu), and does not require that the hand control file be open in a IR Document window.
- Only channels that contain functions are displayed.

# Basic Operations

## Creating a New IR Database

The AMX database is read only. If you want to construct or edit any IR hand controls you must first create a new database file.

1. Select **File > New > New Database** to launch the *New File* dialog (FIG. 11).
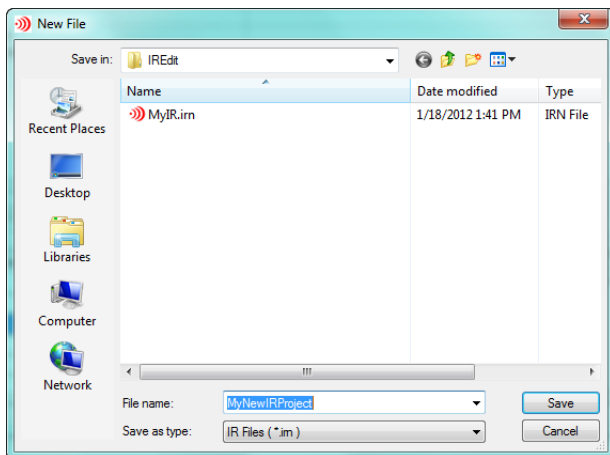


**FIG. 11** New File Dialog

2. Specify a name and target directory for the new database file. Select **Save**.

3. The new database will now appear in the *Navigator* window (FIG. 12):
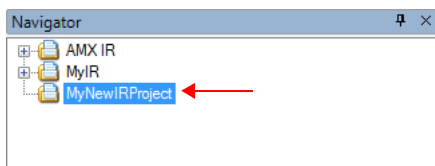


**FIG. 12** Navigator window - New Project added

4. Populate the new database by copying and pasting IRLs from the AMX database, importing your own hand control files, or creating new hand control files.
   - See the *Importing IR Files* section on page 24.
   - See the *Creating a New Hand Control File* section on page 13.

## Creating a New Hand Control File

IREdit utilizes wizards to step assist in creating new IR files. Select **File > New > Hand Control** to access the *New Hand Control Wizard* (FIG. 13):



**FIG. 13** New Hand Control Wizard - Welcome dialog

**NOTE:** *You must have a user-created Database file open in the Navigator to enable the*
*File > New > Hand Control option. See the Creating a New IR Database section on page 13 for details.*

- Read the information on the initial Wizard dialog, and click **Next** to proceed with the New Hand Control Wizard.
- Select the **Please take me to the advanced screen** option, and click **Next** to open the *Advanced Wizard* dialog, which allows you to manually enter information for the file in a single dialog.

## Using the New Hand Control Wizard

The *New Hand Control Wizard* steps you through the process of creating a new hand control file:

1.  Select **File > New Hand Control** to open the "Welcome" dialog (see FIG. 13).

    **NOTE:** *Check the Please take me to the advanced screen option to use the advanced wizard options (intended for advanced users). This option allows you to enter all of the information at once. See the Advanced Hand Control Wizard Dialog section on page 16 for details.*

2.  Click **Next** to proceed to the *Manufacturer* dialog (FIG. 14):
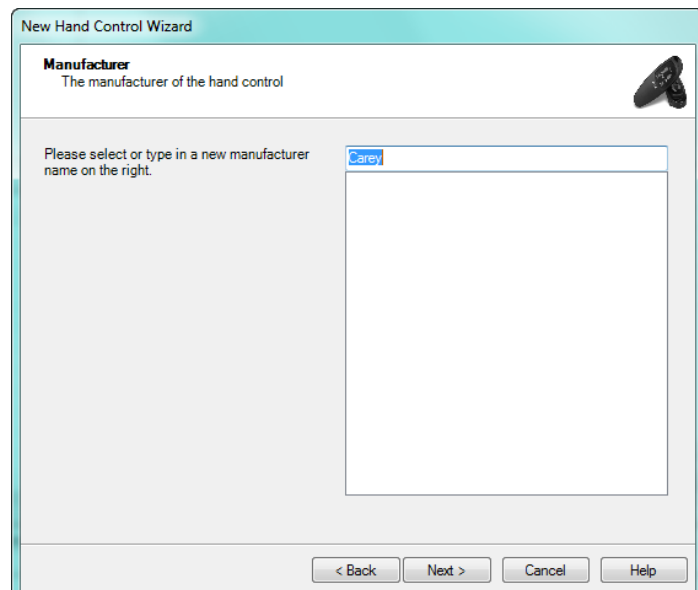


**FIG. 14** New Hand Control Wizard - Manufacturer dialog

Select the manufacturer of the hand control from the scrolling list.

3.  Click **Next** to proceed to the *Category* dialog (FIG. 15):
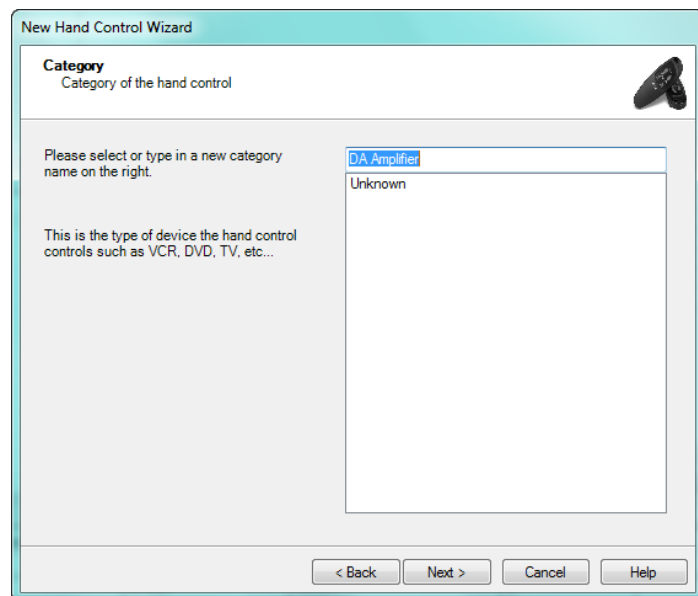


**FIG. 15** New Hand Control Wizard - Category dialog

Select a device category that matches the device to control with the selected hand control. Alternatively, you can type a new category in the text field above the list, if none of the listed categories adequately describe the target device type.

4.  Click **Next** to proceed to the *Model* dialog (FIG. 16):
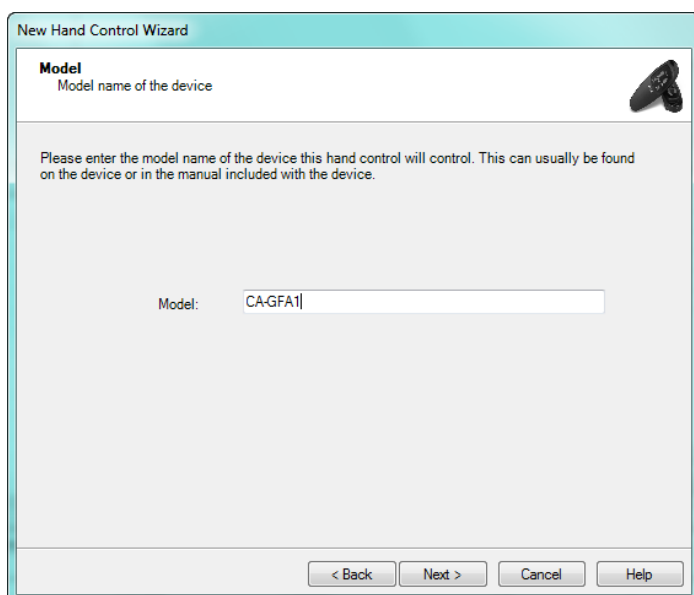
**FIG. 16** New Hand Control Wizard - Model dialog

Enter the model number of the device that the selected hand control will control in the text field.

5.   Click **Next** to proceed to the *Hand Control* dialog (FIG. 17):
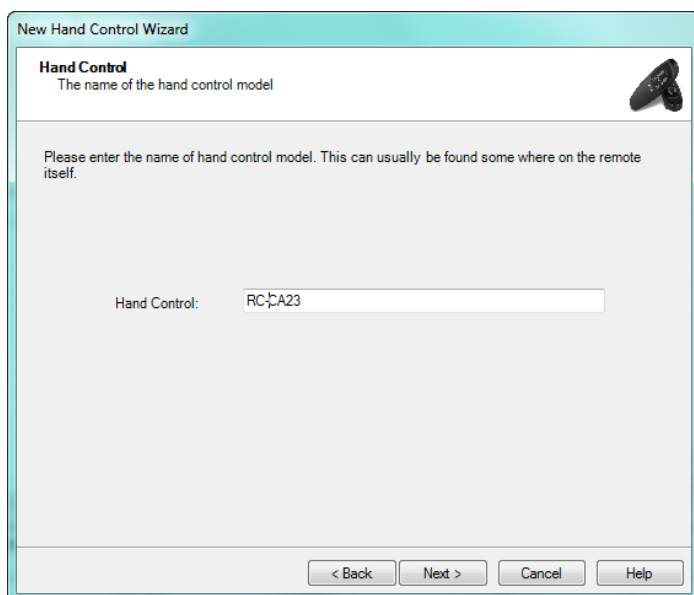


**FIG. 17** New Hand Control Wizard - Hand Control dialog

Enter the model number of the selected hand control in the text field.

6.   Click **Next** to proceed to the *Finished* dialog (FIG. 18):
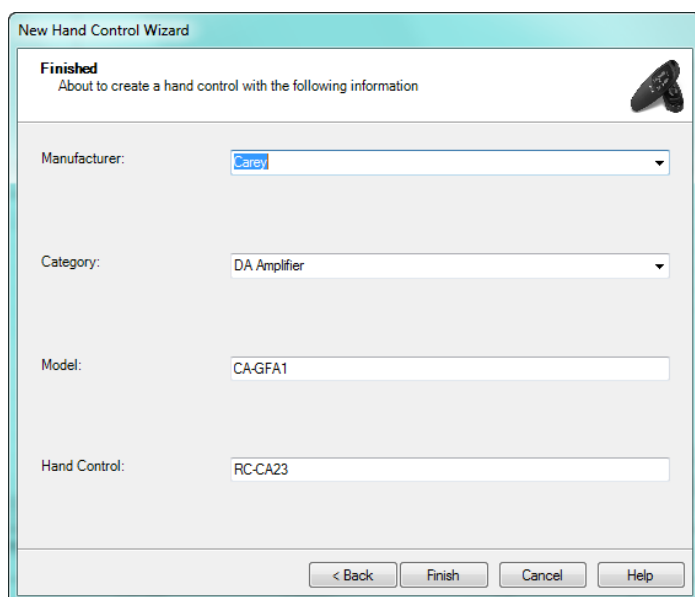
**FIG. 18** New Hand Control Wizard - Finished dialog

The *Finished* dialog displays the selections made in the previous dialogs. Each of these fields can be edited if necessary.

7. Click **Finish** to save the changes, generate the hand control file and add it to the User Database file, visible in the Navigator window (FIG. 19).
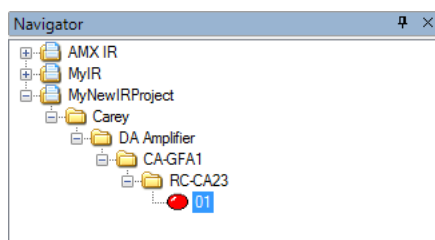


**FIG. 19** New Hand Control added to Navigator window

## Advanced Hand Control Wizard Dialog

The Advanced dialog of the Hand Control Wizard allows you to create a new hand control file in a single dialog (FIG. 20 on page 16):
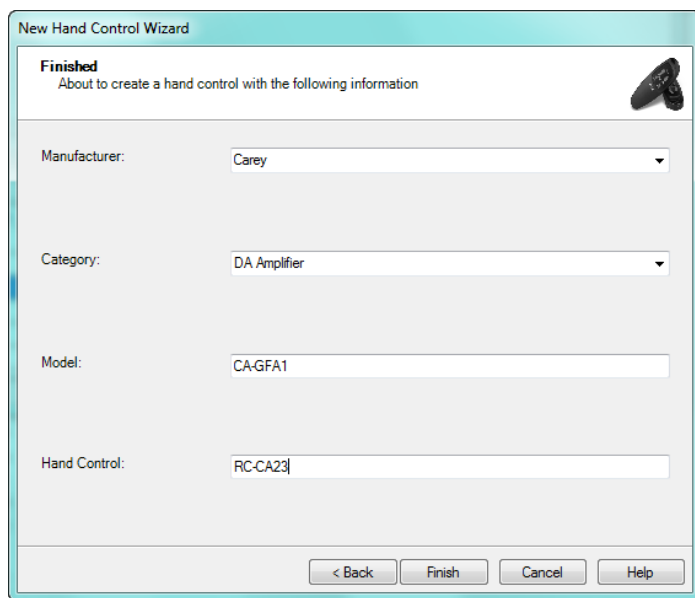


**FIG. 20** Advanced Hand Control Wizard dialog

1. Select **File > New Hand Control** to open the Welcome dialog (see FIG. 13 on page 13).

2. Check the **Please take me to the advanced screen** option to use the advanced wizard dialog:

- **Manufacturer**: Select the manufacturer of the hand control from the drop-down list. If the desired manufacturer is not included in the drop-down list, you can manually enter a name in the text field.
- **Category**: Select the category of the device to be controlled by the selected hand control hand control from the drop-down list. If no device category in the drop-down list adequately describes the device type, you can manually enter a category name in the text field.
- **Model**: Enter the model number of the device that the selected hand control will control in this text field.
- **Hand Control**: Enter the model number of the selected hand control in this text field.

3. Once all fields are populated with information, the *Finish* button is enabled. Click **Finish** to save the changes and close the New Hand Control Wizard (Advanced options) dialog.

The hand control file is generated and added to the open User Database file (visible in the Navigator window).

## Identify Dialog

Select one or more hand controls in the Search Results window and click **Tools > Identify** to open the *Identify* dialog (FIG. 21): .
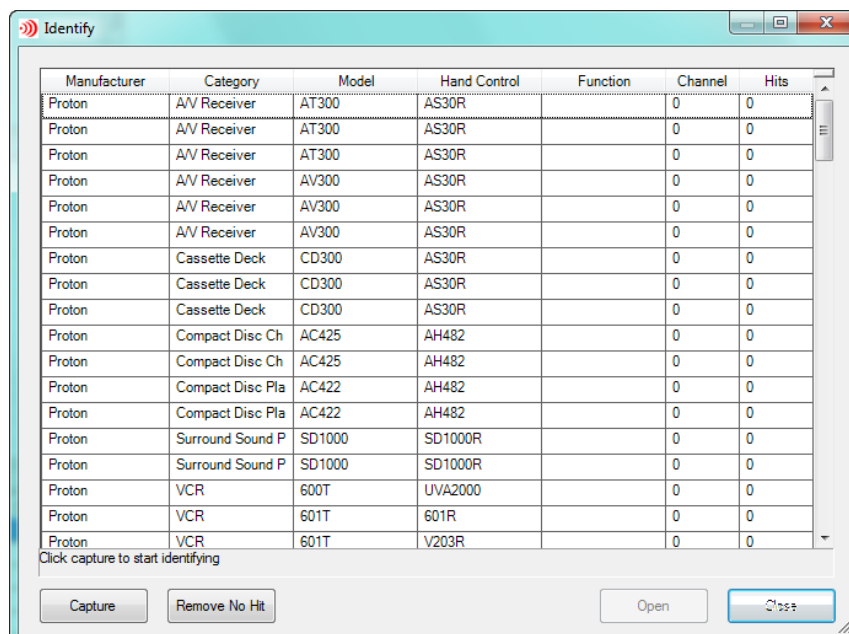


**FIG. 21** Identify Dialog

The *Identify* dialog contains a listing of selected table columns:

| Identify Dialog Options | |
| --- | --- |
| Manufacturer | The name of the function's matching manufacturers. |
| Category | The categories for the matching functions. |
| Model | The model names for the matching functions. |
| Hand Control | The name of the matching hand control. |
| Function | The function description for the matching function. |
| Channel | The corresponding channel for the matching function. |
| Hits | The number of times the function has made a match. |

Click on any of the column heading to arrange the fields in either ascending or descending order
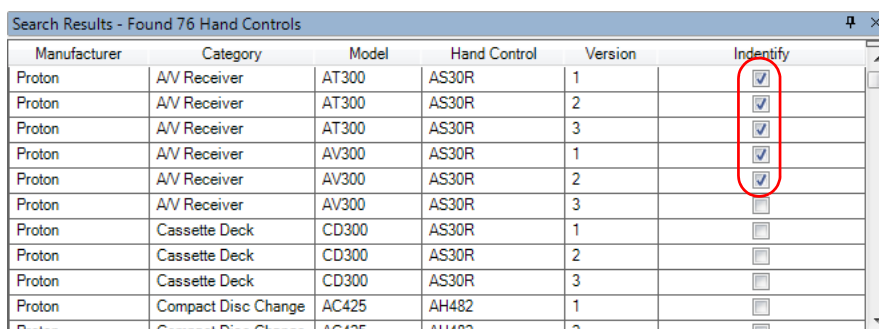
The captured function will display in green. Hand controls that have at least one hit but did not match in the current capture will display in blue.

- **Capture** - This button initiates the Identify session and readies the IRIS to receive functions.
- **Remove No Hit** - This button will remove all rows that currently contain zero hits.
- **Open** - This button will open a selected hand control.
- **Close** - This button closes the Identify dialog.

### Using Identify

The *Identify* feature allows functions to be identified from a list of hand controls. An IRIS connected to the serial port is necessary in order to utilize this feature.

1. Perform a search in the Search window (see FIG. 8 on page 11).
2. Within the *Search Results* window, under the **Identify** column, click on the functions to be added to the Identify list (FIG. 22):

**FIG. 22** Search Results window

3.  After all desired functions have been selected, select **Tools > Identify...** to open the *Identify* dialog.

4.  Click on the **Capture** button to begin the identification session (FIG. 23):



**FIG. 23** Identify dialog - Capture and remove Not Hit buttons

5.  Begin sending functions to IREdit via the IRIS.
    - As the functions are received, found functions will be moved to the top of the list.
    - The next function captured will increment the number of hits column and display in green.
    - Hand controls with a minimum of one hit but not found in the current capture will display in blue.
    - Clicking on the **Remove No Hit** button will remove all rows that contain no hits.
    - Select a hand control and click the **Open** button to open it into the IR Document window.

## Searching for IR Hand Control Files

In addition to using the Navigator window to find an IR hand control file, you can search through a selected directory and open the IR from the *Search Results* window.

1.  Select **View > Search** to show the *Search* window (see FIG. 8 on page 11).
2.  In the *Navigator* window, select a Database directory to search.
3.  Enter your search criteria into the *Search* window.
4.  Click the **Search** button.
5.  All matching results will be displayed in the *Search Results* window. You can scroll through the list to find your desired IR hand control file.
6.  Upon finding your IR hand control file you can double-click and open it into an *IR Document* window (see the *IR Document Window* section on page 8) and populate the *Quick List* window (see the *Quick List Window* section on page 12).

**NOTE:** *Use "_" as a single character wildcard and "%" as a multiple character wildcard. The "_" symbol will match any single character, and the "%" symbol will match any number of characters.*

## Cut, Copy And Paste Databases

User defined databases can be both cut and pasted into other user defined databases. Conversely, the AMX database can only be copied.

**NOTE:** *If you are pasting into a new database an entire product hierarchy must first be established.*

1.  Select the hand control file you wish to **Copy** or **Cut**.
2.  Select either **Edit > Copy** or **Edit > Cut**.
3.  Select the user defined database you wish to paste into.
4.  Select **Paste** from **Edit Menu**.
5.  The new IR node then appears in the user defined database.

**NOTE:** *If you are pasting a complete manufacturer line from the AMX database, it may take a long time, so be patient.*

### Paste Special

The options in the *Paste Special* dialog allow you to paste any level of an IR directory into another, with the opportunity to insert any missing information (FIG. 24):
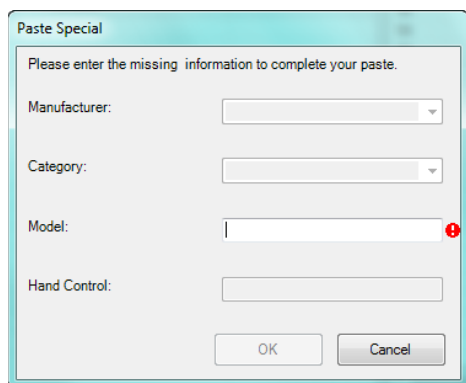


**FIG. 24** Paste Special Dialog

1. Select the IR, Hand Control Model, Device Model or Category you want to copy in the *Navigator* window.
2. Select **Edit > Copy**.
3. Select the new directory into which you want to paste the selection.
4. Select **Edit > Paste Special** to open the **Paste Special** dialog. All fields must be filled before you can select **OK**.
5. Either type or select from a drop down menu the *Manufacturer* and *Category* information. Type the *Device Model* and *Hand Control Model* information.
6. Select **OK** to complete the paste operation.

## Viewing an IR Waveform

Select **View > Waveform** to access the Waveform view box, containing a graphical representation of the waveform associated with the selected IR function.

See the *Waveform Window* section on page 10 for details.

## Editing IR Files

IREdit allows you to edit up to 255 functions within user-created IR files.

**NOTE:** *IR files contained within the AMX Database cannot be edited.*

- Values from other hand controls can be cut or copied and then pasted into any one of the 255 function slots.
- After you have made all of your changes you can export your .IRL hand control file. See the Exporting IR Files on *Exporting IR Files* section on page 25 for more details.
- Double-click on any .IRL file within the Navigator window to open and populate the Properties and IR Document windows.

### Editing IR Properties

Right-click on one of the bold items in the Properties window to edit a hand control.

- The **Category Name**, **Template** and **Manufacturer Name** fields provide you with drop down lists to choose from.
- Select one of the items listed or select **New** and type your own in the window and select **OK**.
- The *Note* field is the only one that can be left blank.

**NOTE:** *When the insert key is on, you will see a INS in the lower right corner of the application window. In this mode, existing functions will be moved down when pasting in new functions. When insert is off, OVR will be displayed in the lower right corner of the application window. In this mode, existing functions will be overwritten when new functions are pasted.*

# Category Manager

Use the *Category Manager* to manage your categories without expanding the database.

### Adding a Category Via Category Manager

1.  Select a user database file in the *Navigator* window.
2.  Select **Edit > Categories** to open the *Category Manager* dialog (FIG. 25):
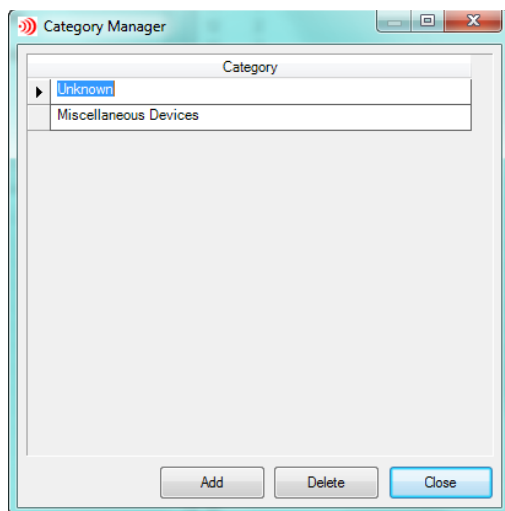


**FIG. 25** Category Manager Dialog

3.  Click **Add**. This action adds a new (empty) entry to the list of Categories (FIG. 26):
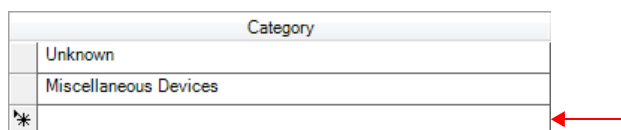


**FIG. 26** Category Manager Dialog - New Category Entry

4.  Place the cursor in the **Category** field and type the information.
5.  Once finished, click on the **Close** button. The new directory will appear in the selected database.

**NOTE:** *Categories can be sorted by clicking on column headers. An arrow appears in the header to indicate ascending or descending order.*

### Deleting a Category Via Category Manager

1.  Select a user database file in the *Navigator* window.
2.  Select **Edit > Categories** to open the *Category Manager* dialog.
3.  Select the category you want to delete.
4.  Click on the **Delete** button.
5.  Once finished, click on the **Close** button.

**NOTE:** *Deleting a category will also delete all information contained therein.*

# Model Manager

Use the *Model Manager* to manage models without expanding the database.

### Adding an IR Property

1.  Within the **Properties** window select **Model Name**.
2.  **Model Name** provides a drop-down button, when selected will open the *Model Manager* dialog (FIG. 27):
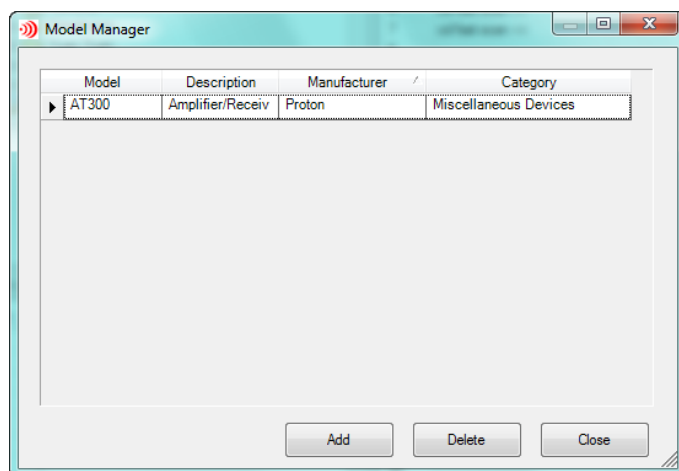


**FIG. 27**  Model Manager Dialog

**NOTE:** *You can only edit directories you have created. The AMX database is read-only.*

3.  Select **Add** and a new model line will appear (FIG. 28):



**FIG. 28**  Model Manager Dialog - New Model Entry

4.  Place the cursor in the **Model** field and enter a model name.
5.  Place the cursor in the **Description** field to enter a description of this model (optional).
6.  Place the cursor in the **Manufacturer** field to select from a menu populated with the manufacturers located in your user database.
7.  Place the cursor in the **Category** field to select a category from the menu populated with the categories located in your user database.
8.  Click **OK**.

### Deleting An IR Property

1.  Within the **Properties** window select **Model Name**.
2.  **Model Name** provides a drop-down button, when selected will open the Model Manager Dialog.
3.  Within the **Model Manager** select the model line to be deleted.
4.  Select **Delete**.
5.  You will be prompted to confirm your selection. Click **Yes**.
6.  Afterwards you are returned to **Model Manager**. Click **OK**.

# Capturing An IR File

With the use of an IRIS, IREdit can capture IRs into hand control functions specified by you.

### IRIS Infrared/Serial Data Capture Unit

The IRIS Infrared Capture Unit is a stand-alone, self-contained unit captures infrared (IR) or wired-IR function signals from an IR hand control. For operating instructions on the IRIS, refer to the *IRIS Infrared Capture Unit Instruction Manual*.

### Capture Communication Settings

The connected IRIS must be identified to IREdit.

1.   Select **Tools > Comm Settings** to open the *Communication Settings* dialog (see FIG. 44 on page 32).

2.   Open the **Capture** tab (FIG. 29):
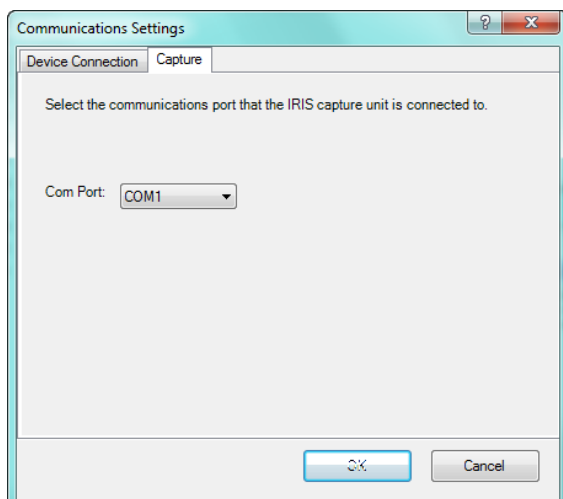


**FIG. 29**  Communication Settings dialog - Capture tab

3.   Click the down arrow to open a menu where you can choose between any number of COM ports.

4.   Click **OK**.

### Capture IR Wizard

1.   Select **Tools > Comm Settings > Capture Tab** to set the port location of the IRIS. Select **OK**.

2.   In the IR Document window, select the channel into which you want to capture.

3.   Select **Tools > Capture**. This will launch the *IR Capture Wizard* (FIG. 30):
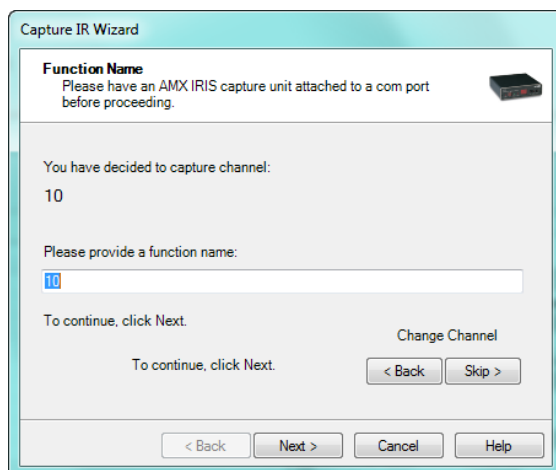


**FIG. 30**  IR Capture Wizard - Function Name dialog

4.   Enter the function name and select **Next**.

5.   Capture the IR from the hand control:
   a.   Hold the hand control approximately three inches from the IR capture window.
   b.   Press and hold down the first key on the hand control to capture the first function.
   c.   The SIGNAL LED will start blinking.
   d.   Hold just until the READY LED goes off.
   e.   When the READY LED comes back on, repeat this step to confirm the IR signal.

6. Push the **Send** button on the IRIS.

7. The *IR Capture Wizard* will confirm the information sent to the slot.

8. Click **Finish**.

# Discrete IR Hex Codes

Hex format codes are available only online. Therefore, hex format codes cannot be captured from a manufacturer's remote by an IRIS and added into an .IRN or .IRL/.IRV file.

IREdit utilizes the base format (raw oscillated code) of the hex codes (available at www.remotecentral.com).

Discreet hex codes can be imported into IREdit files via the *Discrete IR Hex Codes Wizard*.

1. Select *Tools > Discrete IR Hex Codes* to open the *Discrete IR Hex Codes Wizard* dialog (FIG. 31):
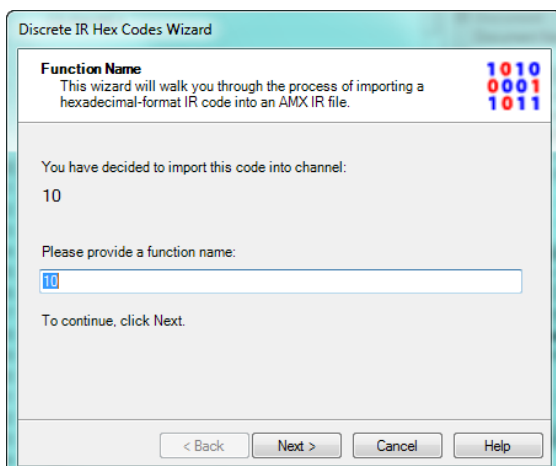


**FIG. 31** Discrete IR Hex Codes Wizard dialog

2. Enter a function name in the text field and click **Next** to proceed to the *Enter hex format IR code* dialog (FIG. 32).
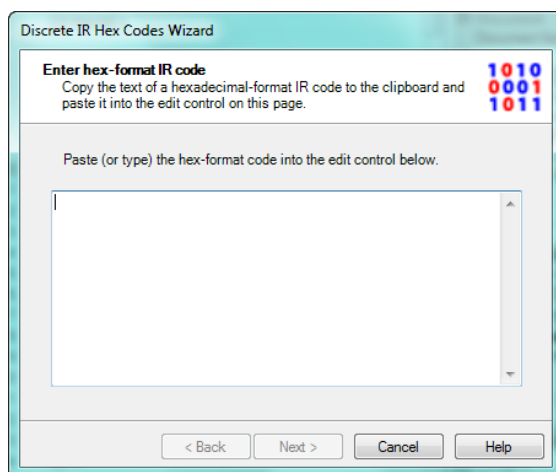


**FIG. 32** Discrete IR Hex Codes Wizard - Enter Hex-Format IR Code dialog

3. Click **Next** to proceed to the to the *Discrete IR Hex Code Import Complete* dialog.

4. Click **Finish** to close the Wizard.

## Importing Discrete IR Hex Codes

Discrete IR Hex Codes cannot be captured; therefore, they have to be imported into IREdit projects.

1. Open the document view containing the IR file to be edited.

2. Select a particular (target) function in the IR document view in order to enable the discrete IR hex import feature.

3. Click on **Tools > Discrete IR Hex Codes**.

4. The first page of the wizard prompts for a name for the function. Then click **Next**.

5. The next page of the wizard is a window to enter the Discreet IR Hex codes-format text.

6. Paste the code into the text edit field provided by the wizard.

   **NOTE:** *The Discrete IR Hex-format code can also be typed in verbatim.*

7. When text has been entered into the edit control, the page's **Next** button will then become enabled. No validation will be performed on the text until the **Next** button is pressed, which launches the translation process.

8.  Click **Next** to begin translation to AMX-format.

    When translating the discrete IR hex-format text, all blank, carriage-return, and line-feed characters will be removed first, so spacing and line arrangement are irrelevant. Since all hex-format codes are composed of four-byte blocks, the number of remaining digit characters must be evenly divisible by four. All digits must be in the hex range 0-9 and A-F (or a-f).

    If the input text fails to translate, the program will present an error message box and allow the user to re-enter or edit the input text and try again.

    IREdit will attempt to translate the text into the AMX proprietary IR format and write it to the selected function in the .IRN/.IRV file in the same manner as the IRIS capture functionality currently operates.

    If the translation operation is successful, the wizard will then proceed to the final page and display the result of the operation.

9.  Use the **Back** button to redo the process or click the **Finish** button to exit the wizard.

10. Repeat process to add more discrete IR hex code functions.

**NOTE:** *Discreet IR hex-format codes must be either raw oscillated code (first four-byte block = 0000) or raw unmodulated code (first four-byte block = 0100) in order to be translated into the AMX proprietary format.*

## Importing IR Files

You have the option of importing any of your preexisting .IRL files into a user defined database

1.  Select the destination database in the Navigation window for the .IRL files.

2.  Select **File Menu > Import IR File(s)...**. This launches the *Import IR* dialog (FIG. 33):



**FIG. 33** Import IR dialog

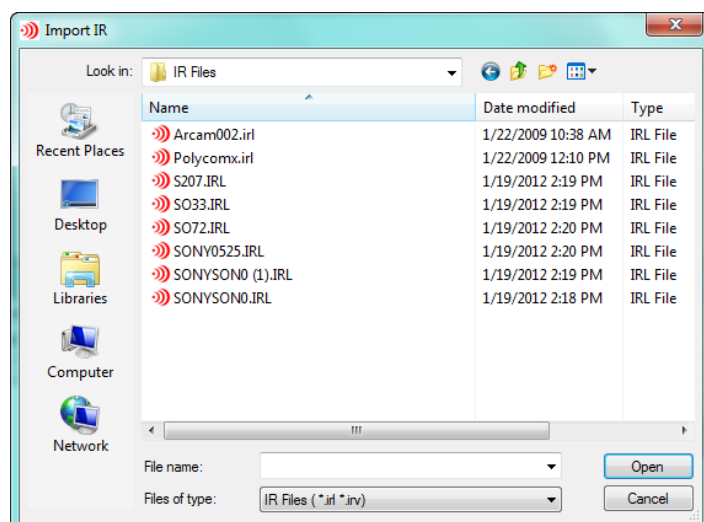3.  Select the .IRL files you wish to import and click **Open**.

4.  The new .IRL files appears under the database in the Navigator window. Next is the product name, then Imported File. Then the hand control model. Followed by category and finally the address (FIG. 34).
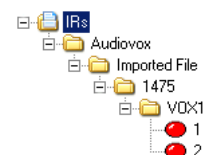


**FIG. 34** IRL in Navigator Window

   **NOTE:** *Each product name can have an Imported File directory in a given database.*

# Exporting IR Files

Once you have edited your IR hand control file, you must elect to export it to .IRL format in order to use it in a control device. From there you can bring it into a NetLinx Studio session.

1. Select the user defined database file to be exported from the Navigator window.
2. Select **File Menu > Export IR File(s)...**to open the *Export* dialog (FIG. 35): .
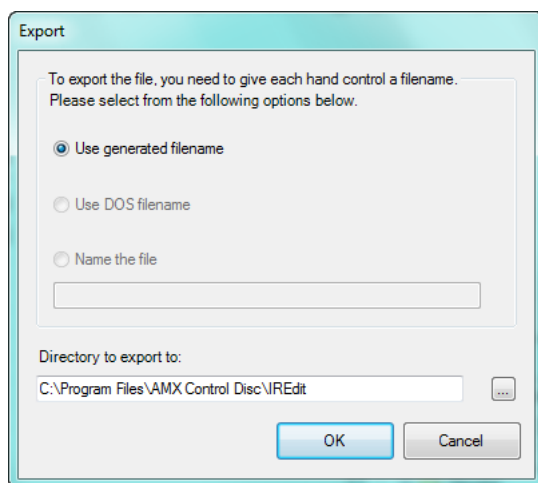


**FIG. 35** Export dialog

3. You can select exporting by either:
   - the default method of Generated Filename. (Manufacturer,Device,HandcontrolModel,Category,version.irl)
   - use the DOS filename (only available when exporting from the AMX database)
   - or naming the file yourself.
4. In the *Directory to export to* field, designate a target directory for the exported.IRL file (browse to a new directory by selecting the browse button).
5. After you have decided the method and directory for export, select **OK**.

**NOTE:** *When you export in DOS you will only get as many IR files as there are hand controls for that manufacturer. Conversely, when you export via Generated Filename you get as many IR files as there are leaf nodes.*

# Actuate IR

Select **Tools > Actuate** to open the *Actuate IR* dialog (FIG. 36):



Pulse selected IR function

Toggle selected IR function

**FIG. 36** Actuate IR Dialog

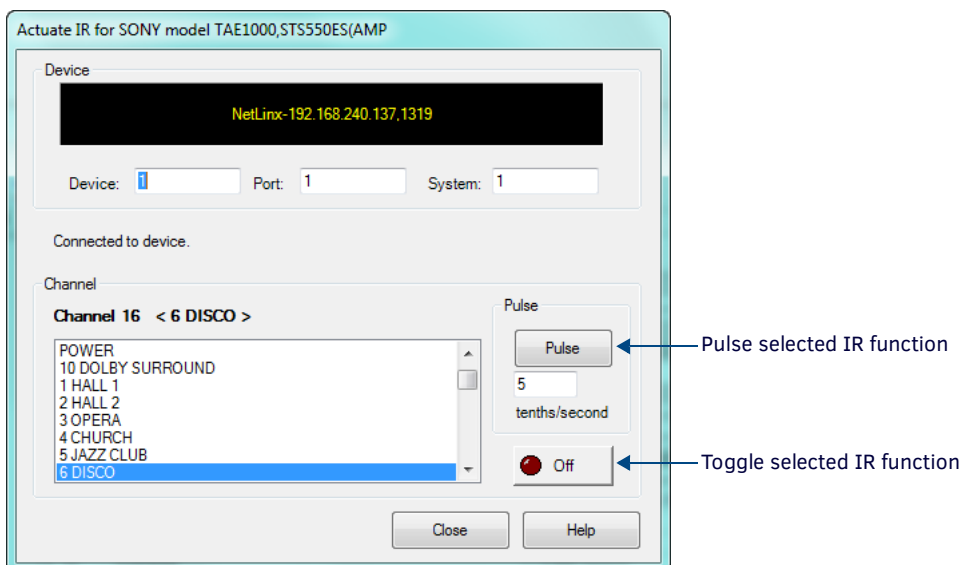| Actuate IR dialog | |
|---|---|
| **Device** | |
| • Connection Information | Provides basic information on the current device connection |
| • Device:Port:System | Specify *Device*, *Port* and *System* address information in the text fields. |
| • Connection Status | Indicates the status of the current device connection. |
| **Channel** | |
| • Channel List | Select a channel to test from this scrolling list. |
| • Pulse | The Pulse section sets the actuate to pulse OFF and ON at a set interval. <br> • Click Pulse to cause the corresponding LED to flash. <br> • Pulse interval time field (range is 1 to 100 in tenths of a second). |
| • Toggle | Press to manually actuate the selected IR function from OFF to ON. <br> Click the Off button to turn on the corresponding LED at the master. |

### Actuating an IR Function

You can select a downloaded IR function and then actuate it at the master to confirm a successful download.

1. After you have downloaded the IR file to the master, select one of the functions to actuate.
2. Select **Tools > Actuate** to open the *Actuate IR* dialog.
3. Confirm all information listed in the **Device** section is correct.
4. Select one of the Channels in the **Channel** field.
5. Click the **Off** button. It will then switch to on and the corresponding LED at the master will illuminate.

   You can select **Pulse** to have the master's LED flash at the intervals of the waveform.

   The interval between when the channel ON command is sent to the target device and when the channel OFF command is sent can be set in the Pulse interval time field.

   The field will accept any value between 1 and 100. The time is measured in tenths of a second.
6. Click **Close** when finished.

**NOTE:** *To actuate other ports, exit back to the IREdit work area and repeat the process.*

### Restore Default Window Settings

This restore feature returns all of IREdit's dockable windows to the default arrangement.

Go to **View > Restore Default Window Settings** to reset the dockable windows.

## IR Update Wizard

The *IR Update Wizard* takes you through the steps necessary to downloading available updates for the AMX IR database. An internet connection is required

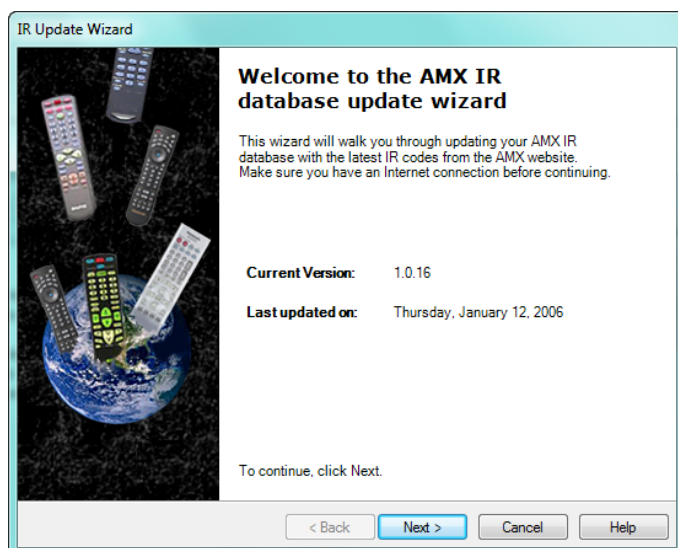1. Select **Help > AMX IR Update** to open the *IR Update Wizard* (FIG. 37):



**FIG. 37** IR Update Wizard - Welcome dialog

The *Welcome* dialog indicates the **Current Version** of the IR database as well as the last date on which the database was updated.

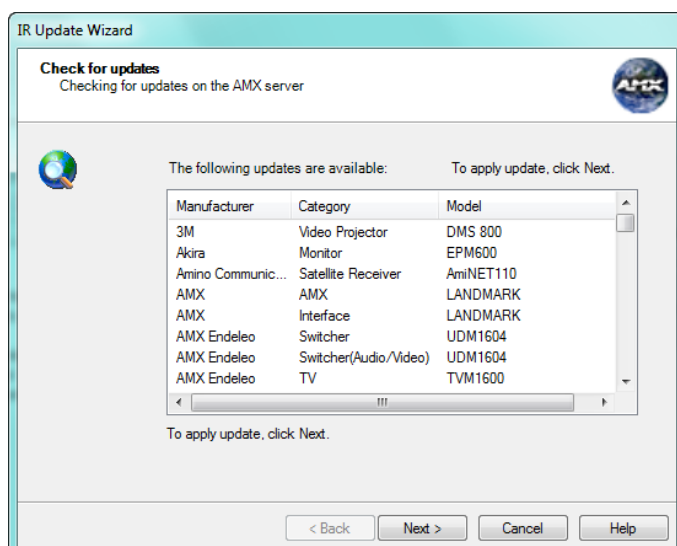2. Click **Next** to proceed to the *Check for Updates* dialog (FIG. 38):

**FIG. 38** IR Update Wizard - Check For Updates dialog

- **The following updates are available** - Within this window the IR Update Wizard displays the Manufacturer, Category and Model name of available updates for the database.
- **No updates available at this time** - This message is displayed only in the event there are no new updates to the database.

3.  Click **Next** to proceed to the *Updating* dialog (FIG. 39):
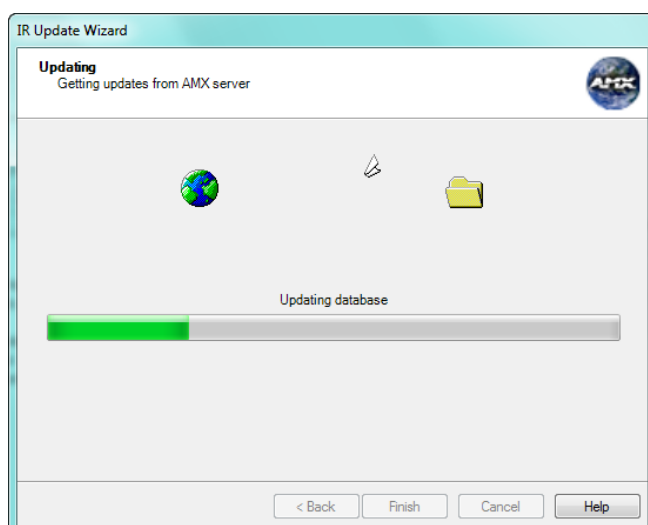


**FIG. 39** IR Update Wizard - Updating dialog

The status bar displays the progress of the download and update of the IR files.

4.  When the update is complete, click **Finish** to close the wizard.

## AMX IR Database Update

AMX is constantly adding IR codes to the database. The database can be updated via AMX IR Update.

1.  Go to **Help > AMX IR Update** to launch the IR Update Wizard Dialog.
2.  Click **Next** to begin searching for updates.
3.  If updates are available they will be displayed. Click **Next**.
4.  The updates will then begin downloading. Once complete, the **Finish** button will be available.
5.  Click **Finish**.

**NOTE:** *After the update is complete, the AMX IR database will collapse.*

# Web Update

Newer versions of IREdit can now be acquired via the internet. The Web Update utility accesses the AMX web site with the application ID and version number and searches for updates.

**NOTE:** *The Web Update application is installed separately from IREdit. The install file for Web Update is available to download from www.amx.com.*

1. Go to **Help > Web Update** to check for updates.
2. If updates are available for the installed version of IREdit they will be downloaded at this time.
3. After the download is complete Web Update will close IREdit and the updates will be added.

# Navigating using the Windows dialog

Once 10 or more IR hand controls are open the **Windows** function will be enabled.

### To Activate a Window

1. Go to **Window > Windows...** to open the *Windows* dialog (FIG. 40).
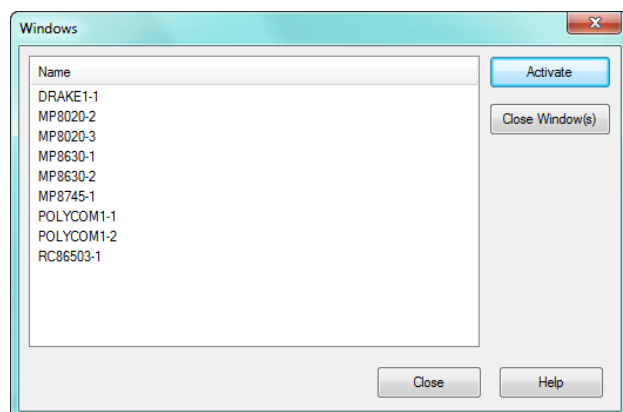


**FIG. 40** Windows dialog

2. Select the hand control under *Name*.
3. Click the **Activate** button.

### To Close a Window

1. Go to **Window > Windows...** to open the *Windows* dialog.
2. Select the hand control(s) under Name.
3. Click the **Close Window(s)** button.
4. Click the **Close** button.

# Printing Files

You can print the active IR file using **File > Print**:

1. Choose **File > Print Preview** to open the *Print Preview* window (FIG. 41), to preview the file as it will be printed (if necessary).



**FIG. 41** Print Preview window

2. Choose **File > Print** to print the file.

# Advanced Operations

## Custom Toolbars And Commands

### Customizing The Toolbars

To add/remove commands from the toolbars (including the Standard toolbar), and any custom toolbars that have been created):

Right-click in the toolbar area and selecting Customize from the Customize context menu to open the Customize dialog.

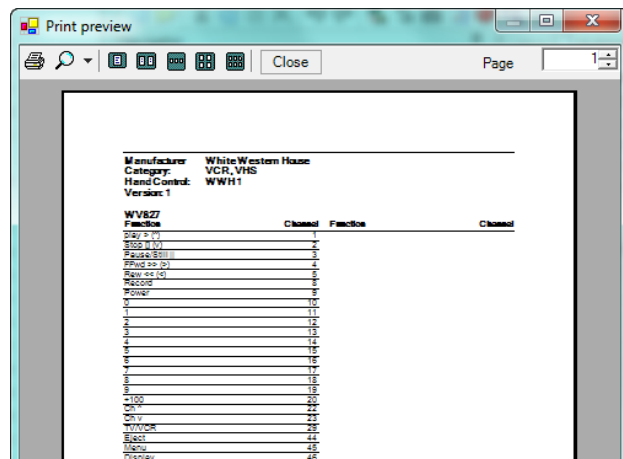1. Open the Toolbars tab of the Customize dialog. Use the checkboxes next to each toolbar in the list to show/hide the toolbars.

2. To add a toolbar button to a toolbar:
   a. Open the Commands tab of the Customize dialog.
   b. Select a command Category (on the left side of the tab).
   c. Select a Command (on the right side of the tab), and drag-and-drop the selected command onto the toolbar that you want to add it to.

3. To remove toolbar buttons from a toolbar, click on any toolbar button, and drag it out of the toolbar area.

### Creating A New Custom Toolbar

To create a new custom toolbar:

1. Right-click in the toolbar area and selecting **Customize** from the Customize context menu to open the *Customize* dialog.

2. Open the *Toolbars* tab of the *Customize* dialog. Use the checkboxes next to each toolbar in the list to show/hide the toolbars.

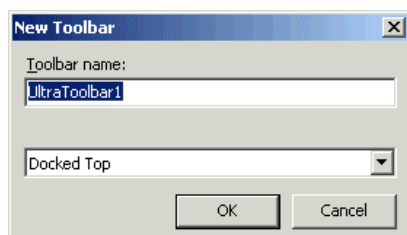3. Click the **New** command button to open the *New Toolbar* dialog.



**FIG. 42** New Toolbar Dialog

4. Enter a name for the new toolbar in the **Toolbar Name** field.

5. Select a placement option from the drop-down list (*Docked Top, Docked Bottom, Docked Left, Docked Right,* or *Floating*). The default setting is **Docked Top**.

6. Click **OK** to save the changes and close the *New Toolbar* dialog.

7. The new (empty) toolbar appears in the workspace according to the placement option specified.

To add commands to the new toolbar refer to *Customizing the Toolbars*.

### Modifying Properties for Existing Toolbar Buttons

To modify various properties of individual toolbar buttons:

1. Right-click on the toolbar area and select **Customize** from the Customize context menu.

2. Select the Commands tab in the Customize Dialog.

3. Select a toolbar button (in the Toolbar area of the work area) to enable the **Modify Selection** drop down menu. The options in this menu allow you to make any of the following modifications to the selected toolbar button:
   - **Reset** - Returns all values of the command to the default settings.
   - **Delete** - Removes the command from the toolbar.
   - **Name** - Change the name associated with the command. Mouse over Name and it will enable the text field to the right. Now highlight and edit the text.
   - **Default Style** - Toolbar appearance is icon and text description is provided upon mouse over.
   - **Text Only (Always)** - Toolbar appearance is text description only.
   - **Text Only (in Menus)** - Text description only in drop down menus.
   - **Image and Text** - Toolbar appearance is icon and text description.
   - **Begin a Group** - Places a division marker at the beginning and then at the end of a user specified group of commands.
   - **Recently Used** - Default is to show the recently used file name. Remove check to turn off selection.

4. Once you have made all of your changes, select **Close**.

### Assigning Shortcuts to Commands

Use the options in the Customize Keyboard dialog to assign shortcut keys to commands.

1. Right-click on the toolbar and select **Customize** from the Customize context menu.

2. Within the Customize Dialog select the **Keyboard** command button to open the Customize Keyboard dialog.

3. Select a category in the **Categories** view.

4. Under **Commands**, find your selection.

5. Choose the shortcut you would like to associate in the **Specify a Shortcut** drop down menu.

6. Click **Assign**.

7. Click **Close**.

# Setting Preferences

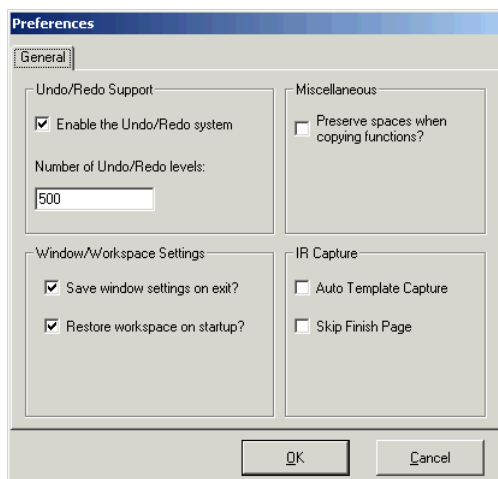The Preferences dialog allows for behavioral changes to be made to the application.

**FIG. 43** Preferences Dialog

## Undo/Redo Support

No undo/redo support is available unless it is enabled in the Preferences dialog. To enable:

1. Go to **Edit > Preferences...**

2. In the Undo/Redo Support section, place a check in the box next to **Enable the Undo/Redo system**.

3. Under **Number of Undo/Redo levels:** place the amount of actions to track.

4. Select **OK**.

## Preserving Spaces for Copied Functions

By default, functions copied within a hand control or to another hand control will not keep spaces that may occur between the functions. For example, channels 1, 2 and 5 will be copied into channels 1, 2 and 3. **Preserve spaces when copying functions** must be enabled for the spaces to be included when copying functions. For example, channels 1, 2 and 5 will be copied into channels 1, 2 and 5. To enable **Preserve spaces when copying functions** see below:

1. Go to **Edit > Preferences...** to open the Preferences dialog.

2. Under **Miscellaneous** place a check in the box next to **Preserve spaces when copying functions?**

3. Click the **OK** button.

## Save Window Settings

When this function is enabled the dockable window arrangements will stay intact. To enable **Save windows settings on exit** see below:

1. Go to **Edit > Preferences...** to open the Preferences dialog.

2. Under **Window/Workspace Settings** place a check in the box next to **Save window settings on exit?**

3. Click the **OK** button.

## Enabling Restore Workspace on Startup

When enabled, documents that were previously open in the Navigator window will reopen upon startup of IREdit. To enable:

1. Go to **Edit > Preferences...** to open the Preferences dialog.

2. Under **Window/Workspace Settings** place a check in the box next to **Restore workspace on startup?**

3. Click the **OK** button.

## Auto Template Capture

When enabled IREdit will automatically advance to the next function in the template after a successful IR capture.

1. Go to **Edit > Preferences...**

2. Under **IRCapture** place a check in the box next to **Auto Template Capture**.

3. Click the **OK** button.

**Skip Finish Page**

When enabled IREdit will skip the Finish page of the IR capture process and instead return to the Start page of IR capture.

1.  Go to **Edit > Preferences...**
2.  Under **IR Capture** place a check in the box next to **Skip Finish Page**.
3.  Click the **OK** button.

# Communications and File Transfers

## Communications Settings

Use the options in the *Communications Settings* dialog to specify communication settings for transfer operations:

1. Select **Tools > Comm Settings...** to open the *Communications Settings* dialog (FIG. 44):
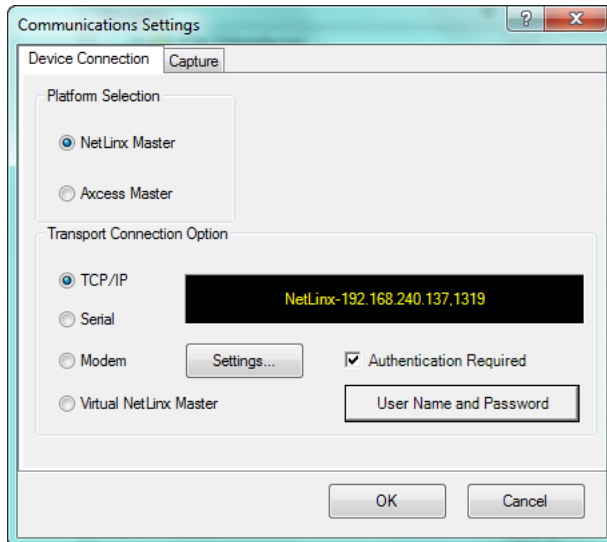


**FIG. 44** Communications Settings Dialog

2. Select **NetLinx Master** (default setting) or **Axcess Master** as the *Platform Selection.*

3. Select **TCP/IP**, **Serial**, **Modem** or **Virtual NetLinx Master** as the *Transport Connection Option*.

4. Click **Settings** to open the appropriate *Settings* dialog (based on the selected *Transport Connection Option)*:
   - *TCP/IP Settings* dialog - see page 33.
   - *Serial Port Settings* dialog - see page 33.
   - *Modem Port Settings* dialog - see page 34.
   - *Virtual NetLinx Master Settings* dialog - see page 34.

5. If the target NetLinx Master requires authentication to connect, select **Authentication Required**. This selection activates the **User Name and Password** button - click to open the *Master Controller User Name and Password* dialog (FIG. 45):
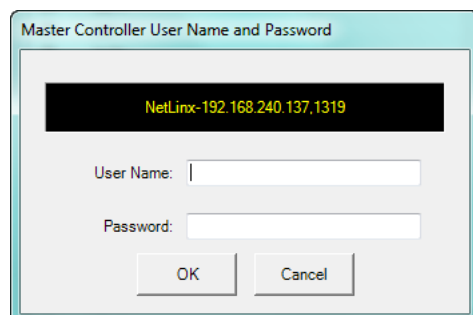


**FIG. 45** Master Controller User Name and Password dialog

   Enter the required login credentials and click **OK**.

## TCP/IP Settings dialog

With **TCP/IP** selected as the *Transport Connection Option*, click **Settings** in the *Communications Settings* dialog to open the *TCP/IP Settings* dialog (FIG. 46):
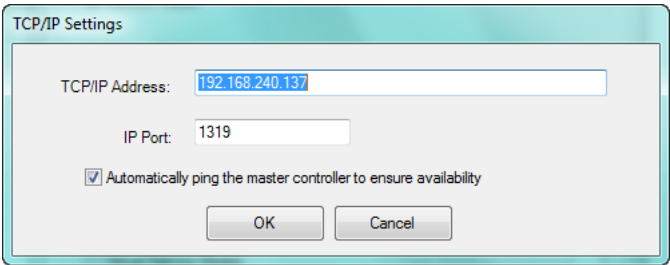


**FIG. 46**  TCP/IP Settings dialog

| TCP/IP Settings dialog Options | |
| --- | --- |
| TCP/IP Address | Enter a valid target TCP/IP Address. |
| IP Port | The IP Port assignment defaults to **1319**.<br>You should not change the IP Port number. |
| Automatically ping the master controller to ensure availability | This option prompts the program to ping the target IP address to ensure that the Master is available. |
| OK | Click to save changes and close this dialog. |
| Cancel | Click to discard changes and close this dialog. |

## Serial Port Settings dialog

With **Serial** selected as the *Transport Connection Option*, click **Settings** in the *Communications Settings* dialog to open the *Serial Port Settings* dialog (FIG. 47):
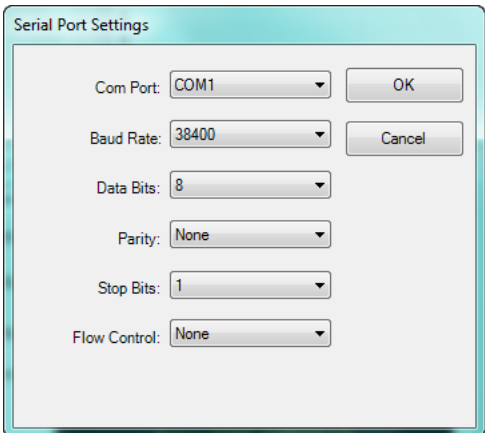


**FIG. 47**  Serial Port Settings dialog

| Serial Port Settings dialog Options | |
| --- | --- |
| Com Port | Click the down arrow to open a menu where you can choose between available COM ports. |
| Baud Rate | Click the down arrow to open a menu where you can choose the baud rate of your COM port from the list (suggested setting = 38400). |
| Data Bits | Click the down arrow to open a menu where you can choose the Data Bits (suggested setting = 8). |
| Parity | Click the down arrow to open a menu where you can choose the parity (suggested setting = none). |
| Stop Bits | Click the down arrow to open a menu where you can choose the Stop bit(s) (suggested setting = 1). |
| Flow Control | Click the down arrow to open a menu where you can choose the Flow Control (suggested setting = none). |
| OK | Click to save changes and close this dialog. |
| Cancel | Click to discard changes and close this dialog. |

## Modem Port Settings dialog

With **Modem** selected as the *Transport Connection Option*, click **Settings** in the *Communications Settings* dialog to open the *Modem Port Settings* dialog (FIG. 48):
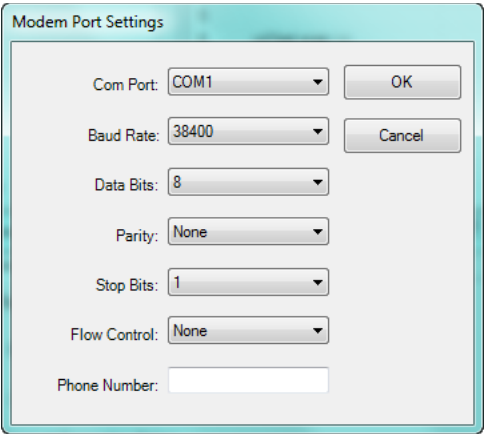


**FIG. 48** Modem Port Settings dialog

| Modem Port Settings dialog Options | |
|---|---|
| Com Port | Click the down arrow to open a menu where you can choose between available COM ports. |
| Baud Rate | Click the down arrow to open a menu where you can choose the baud rate of your COM port from the list (suggested setting = 38400). |
| Data Bits | Click the down arrow to open a menu where you can choose the Data Bits (suggested setting = 8). |
| Parity | Click the down arrow to open a menu where you can choose the parity (suggested setting = none). |
| Stop Bits | Click the down arrow to open a menu where you can choose the Stop bit(s) (suggested setting = 1). |
| Flow Control | Click the down arrow to open a menu where you can choose the Flow Control (suggested setting = none). |
| Phone Number | Enter the phone number to be dialed for connection. |
| OK | Click to save changes and close this dialog. |
| Cancel | Click to discard changes and close this dialog. |

## Virtual NetLinx Master Settings dialog

With **Virtual NetLinx Master** selected as the *Transport Connection Option*, click **Settings** in the *Communications Settings* dialog to open the *Virtual NetLinx Master Settings* dialog (FIG. 48):
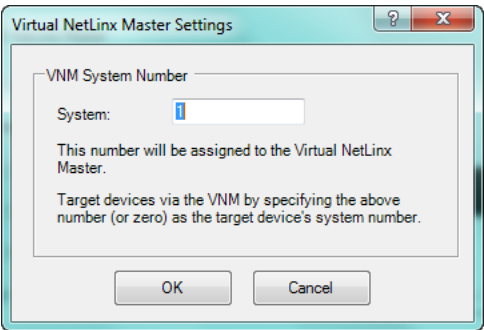


**FIG. 49** Virtual NetLinx Master Settings dialog

| Virtual NetLinx Master Settings dialog Options | |
|---|---|
| VNM System Number | Set the system number to a value between 1 and 65535. |
| OK | Click to save changes and close this dialog. |
| Cancel | Click to discard changes and close this dialog. |

## Sending an IR File

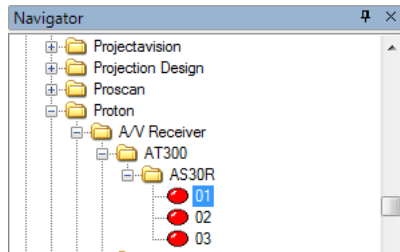1. Select an IR File in the Navigator window (FIG. 50):



**FIG. 50** IR File selected in the Navigator window

2. Select **Tools > Send** or click the toolbar button. This action prompts IREdit to make the device connection specified in the *Communications Settings* dialog (FIG. 51).
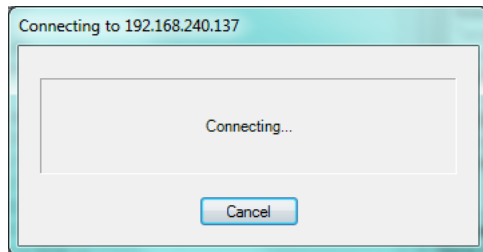


**FIG. 51** Connecting dialog

3. Once the connection has been established, the *Send IR* dialog is opened (FIG. 52):



If this message is not displayed, review your connection settings.
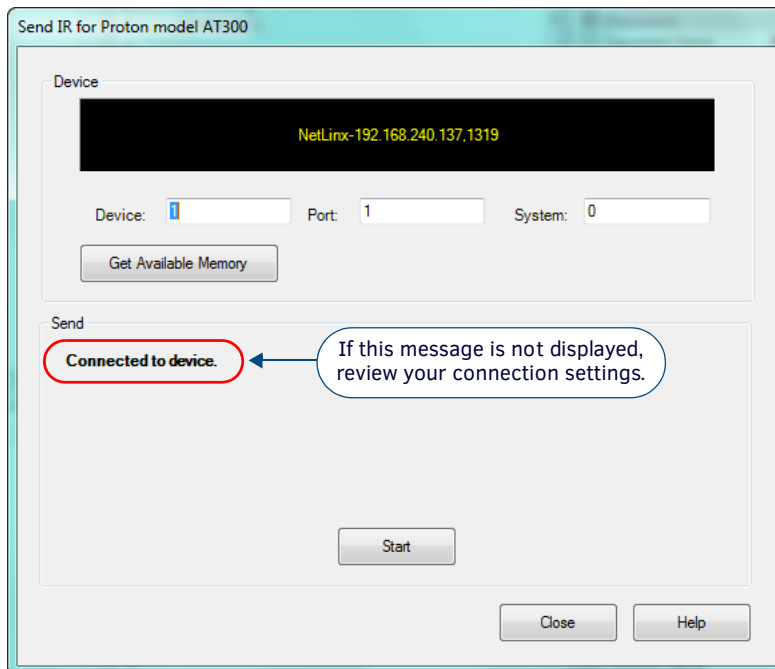
**FIG. 52** Send IR dialog

4. Enter the address information for **Device**, **Port** and **System**.
5. Click **Start** to begin the transfer operation.

## Virtual NetLinx Master Transfers

IREdit supports direct connection to G4 panels (via USB), for situations where the target panel is not connected to a NetLinx Master. In this situation, you can use your PC's USB connection to connect directly to the panel, using your PC as a *Virtual NetLinx Master*. There are three basic steps to Virtual NetLinx Master file transfers:

1. Configuring the Touch Panel for Virtual NetLinx Master Transfers
2. Configure IREdit for Virtual NetLinx Master transfers
3. Transfer the Files Using a Virtual NetLinx Master connection

### Configure the Touch Panel for Virtual NetLinx Master Transfers

If it is not already powered up and connected, apply power to the touch panel and verify that it is connected to USB connector on the panel. To configure the panel for Virtual NetLinx Master transfers:

1. Press and hold the Front Setup Access button (below the touch screen) for 3 seconds to access the Setup page (FIG. 53):
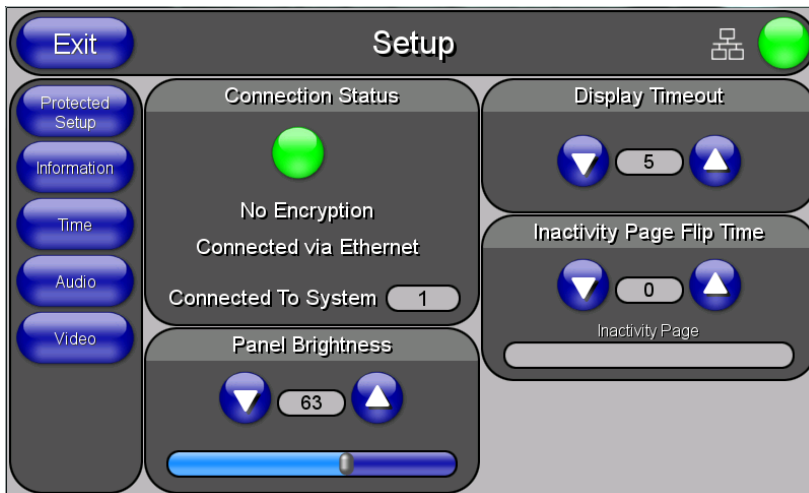


**FIG. 53**  Touch Panel Setup Page

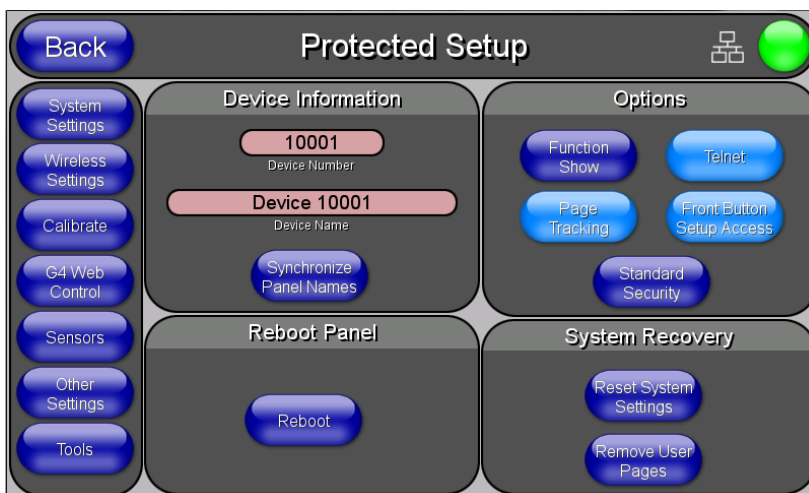2. Press the **Protected Setup** button to access the *Protected Setup* page (FIG. 54):



**FIG. 54**  Touch Panel Protected Setup Page

3. Use the on-screen keyboard to enter the password (default password = **1988**).

4. Press the **System Connection** button to access the *System Connection Setup* page (FIG. 55):
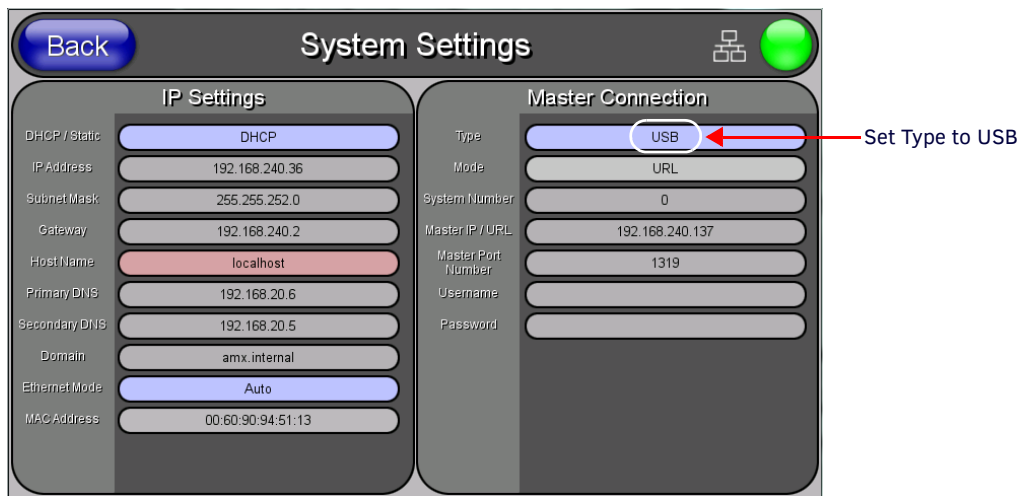
**FIG. 55** Touch Panel System Settings Page

5. Under *Master Connection*. select **USB** as the *Type*.

6. Press the **Back** button to return to the *Protected Setup* page and press the **Reboot** button to reboot the panel.

After several seconds, the panel should appear in the online device tree, listed as *Virtual NetLinx Master*. Once you can see the device online, you may transfer panel files to the G4 device without the need for an intermediate NetLinx master.

### Configuring IREdit for Virtual NetLinx Master Transfers

1. Select **Tools > Comm Settings...** to open the *Communications Settings* dialog.

2. Select the **Virtual NetLinx Master** radio button.

3. Click the **Settings** button to access the *Virtual NetLinx Master Settings* dialog (see FIG. 49 on page 34).

4. Enter the system number and select **OK**.

### Powering Up and Connecting the Panel

1. Verify that an USB cable is connected to the panel.

2. Connect the terminal end of the PSN6.5 power cable to the 12 VDC power connector on the rear/side of the touch panel.

### Transferring Files Using a Virtual NetLinx Master Connection

Once you have configured both the touch panel and IREdit for Virtual NetLinx Master Transfers, you are ready to transfer files to the panel without the need for an intermediate master:

1. With your IR file selected in the Navigator window, select **Tools > Send**, to open the *Send IR* dialog (see FIG. 52 on page 35).

2. Enter the information for *Device, Port* and *System*.

3. After you have all the necessary information listed, click **Start**.

4. Once it is done sending you can select **Close**.

**NOTE:** *Panels cannot send IR data to IREdit via USB.*

# Receiving an IR File

You can transfer a preexisting IR file from either an Axcess or NetLinx Master directly into IREdit.

1.  First select a user database in the Navigator window. If you do not have a user database you must create one.
2.  Select **Tools > Receive** to open the *Receive IR Wizard* (FIG. 56):



**FIG. 56** Receive IR Wizard - Welcome dialog

3.  Click **Next** to proceed to the *Select Device* dialog (FIG. 57):
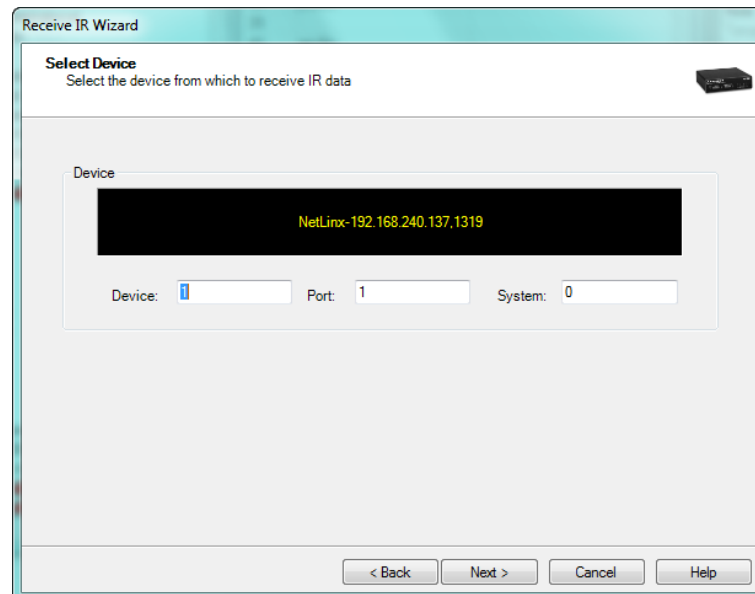


**FIG. 57** Receive IR Wizard - Select Device dialog

4.  Confirm the connection information in the *Device* field, and enter the *Device, Port* and *System* number.
5.  Click **Next** to request the IR data from the targeted device (FIG. 58):

    **NOTE:** *Place a check next to Please take me to the advanced screen to proceed to the final screen of the wizard after a successful transfer.*
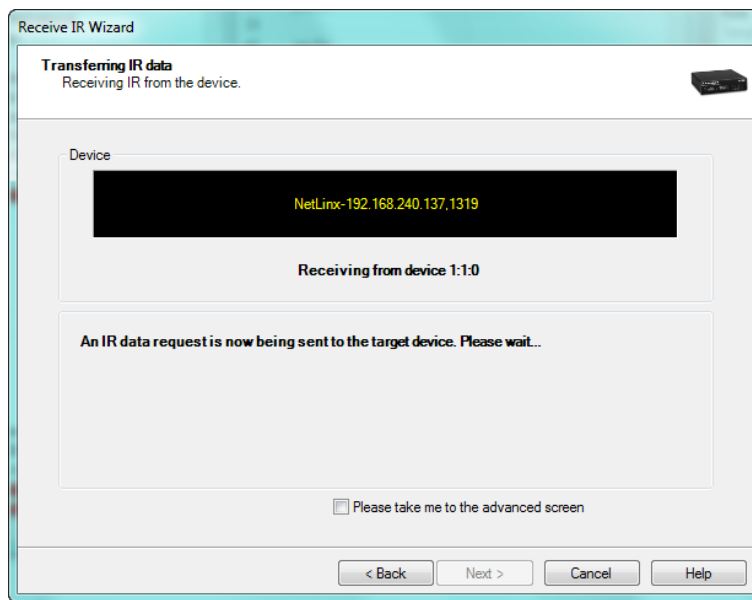
**FIG. 58**  Receive IR Wizard - Transferring IR Data dialog

6.    Click **Next** when the wizard reads File transfer complete.

7.    Enter the name of the Manufacturer or select from the list and click **Next**.

8.    Enter the name of the Category or select from the list and click **Next**.

9.    Enter the name of the Hand Control Model and click **Next**.

10.   Enter the name of the Model and click **Next**.

11.   Confirm all information listed on the *Finished* screen

12.   Click **Finish**.

# Get Available Memory

When sending an IR file to a master you can first check the available memory of that port via the *Get Available Memory* function:

1.    Select **Tools > Send...**

2.    In the *Send IR* dialog, select **Get Available Memory**.

3.    If the port is functioning properly you will receive an amount of available memory.

> **NOTE:** *The first 4 ports and the last 4 ports of a NetLinx system share memory. The available memory reported from the Get Available Memory is a reflection of all 4 ports. All ports share the same available memory in Axcess.*

> NI-series devices (NI-2000, NI-3000, NI-4000) always return the value 32768 in response to a "Get Available Memory" request, regardless of the port queried.

# Verifying IR

*Verifying* is a means of ensuring no corruption occurred to your hand control file during the sending to the Master. Verify will compare all functions in the hand control file on the Master's port to the functions listed in IREdit's hand control selected in the Navigator window. In order to verify you must first send a hand control file.

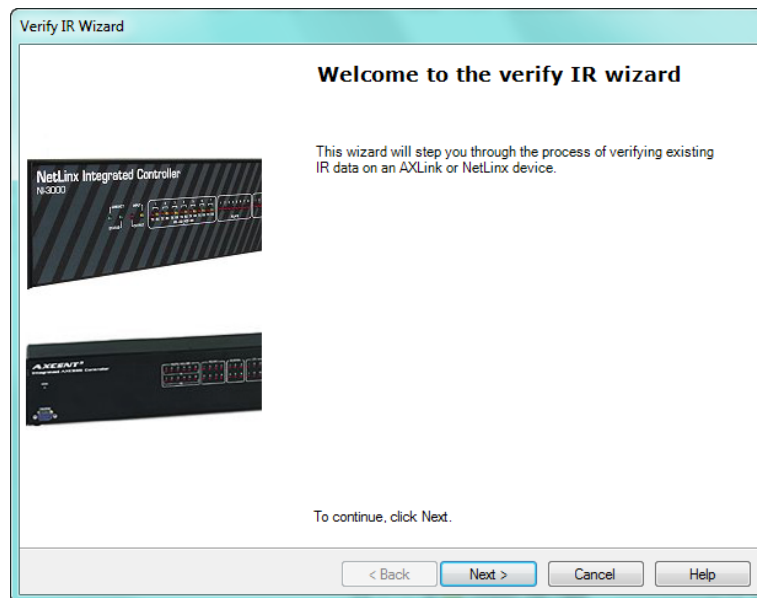1. Select **Tools > Verify**. This launches the *Verify IR Wizard* (FIG. 59):



**FIG. 59** Verify IR Wizard - Welcome dialog

2. Select **Next** to proceed to the *Select Device* dialog (FIG. 60):
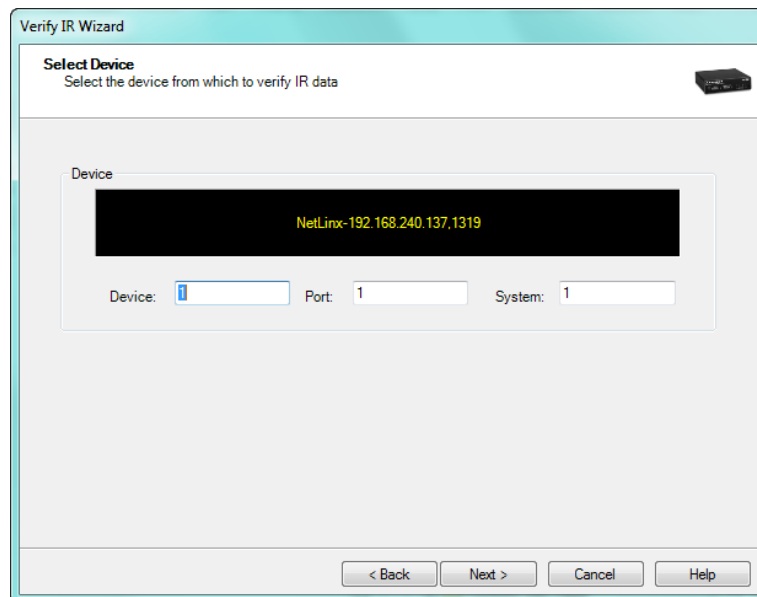


**FIG. 60** Verify IR Wizard - Select Device dialog

3. Designate the *Device*, *Port* and *System*.
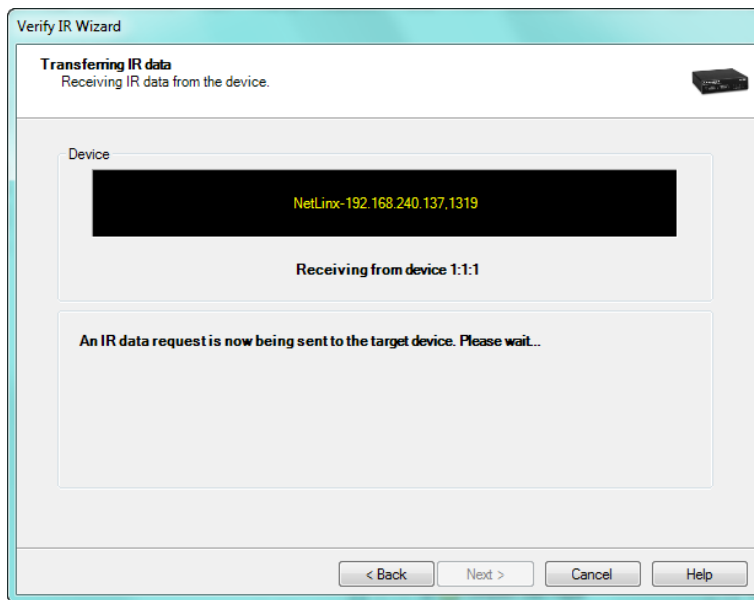4. Select **Next** to proceed to the *Transferring IR Data* dialog (FIG. 61):

**FIG. 61** Verify IR Wizard - Transferring IR Data dialog

5. Confirm the proper hand control is selected in the Navigator window.

6. Select **Next**.

7. The hand control is received from the Master.

8. Select **Next** to proceed to the Finished dialog. This dialog lists the *Manufacturer, Category, Device Model* and *Hand Control Model*. The message screen below will read either, "Verification Successful" or "Verification Failed."

# Setting Program Preferences

## Customizing The Toolbars

You can customize the toolbar by right-clicking on the standard toolbar area and selecting Customize from the Customize context menu. The three tabs available in the Customize dialog are:

- Toolbars Tab
- Commands Tab
- Options Tab

### Toolbars Tab

The Toolbars Tab of the Customize dialog allows you to create a new toolbar populated with commonly used tasks. You can control which toolbars are visible in addition to managing them.
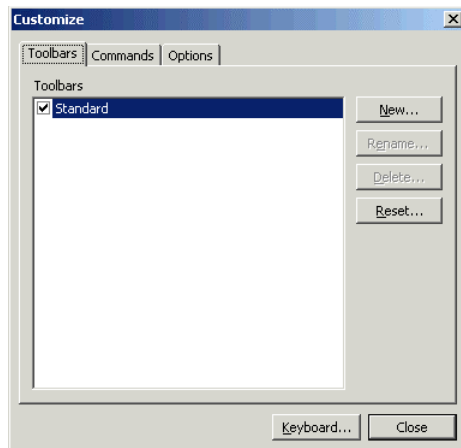


**FIG. 62**  Toolbars Tab within Customize Dialog

To access the Customize dialog right-click anywhere on the standard toolbar area to open the customize context menu. Select the Customize option. Use the options in this dialog to create and manage toolbar properties.

- Select **New** to initiate a new toolbar which will then prompt you to name it. After that you can designate the functions to be found on the toolbar.
- Select **Rename** to change the name of your customized toolbar. The standard toolbar cannot be renamed.
- Select **Delete** to delete custom toolbars. The standard toolbar cannot be deleted.
- **Reset** will return selected toolbars to default settings.

Click the **Keyboard** command button to customize your own quick key strokes for commonly used functions.

### Commands Tab

Functions for populating the toolbars are located on the Commands Tab of the Customize dialog.
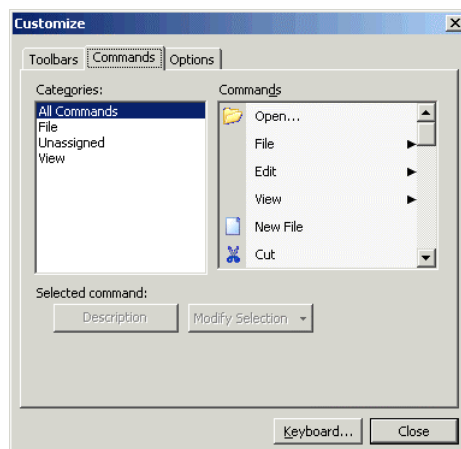


**FIG. 63**  Commands Tab within Customize Dialog

Right-click and select Customize from the Customize context menu to access this dialog. You can toggle the view from All Commands, File (related functions), Unassigned (functions outside of Edit, File and View), and View (functions related to the setup of the work area).

The related commands are located in the Commands window to the right of the Categories field. Selecting Description when a command is highlighted will provide information for that particular function. If the function contains additional parameters, the Modify Selection option will be enabled when a particular command is highlighted.

### Options Tab

The Options Tab of the Customize dialog allows you to alter the look of the toolbar including the size of the icons that populate it.
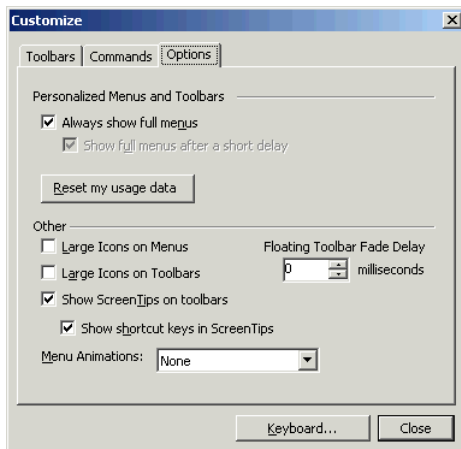


**FIG. 64** Options Tab within Customize Dialog

Personalized Menus and Toolbars

- **Always show full menus** - When checked, drop down menus will show all available commands.
- **Show full menus after a short delay** - used in conjunction with Always show full menus, checked will display all available commands within a drop down menu after a delay.
- **Reset my usage data** - select this button to restore default appearances of the toolbars. *This will not remove any custom toolbars.* You will be prompted to confirm this change.

Other

- **Large Icons on Menus** - When checked, large icons will appear inside the drop down menus.
- **Large Icons on Toolbars** - When checked, large icons will appear on the toolbar.
- **Show Screen Tips on toolbars** - When selected, text description will appear when you mouse over commands.
- **Show shortcut keys in Screen Tips** - When selected, if there is a shortcut key associated with the command it will appear upon mouse over.
- **Floating Toolbar Fade Delay (in milliseconds)** - Toolbars not docked will fade partially out after your designated time and return to view when selected
- **Menu Animations** - You can choose from *Fade, Slide, Unfold, Random* and *None* for Menu Animations.

# Customize Keyboard Dialog

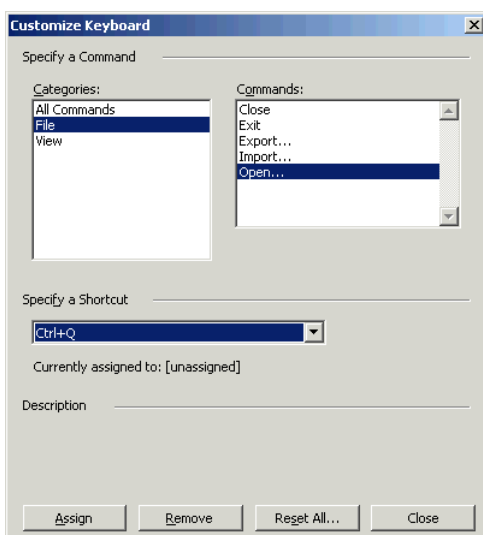Shortcut keys can be assigned and reassigned to user specified commands.



**FIG. 65** Customize Keyboard Dialog

Categories:

- **All Commands** - This selection will display all commands under the Commands view.
- **Edit** - This selection will display only the commands associated with the Edit menu in the Commands view.
- **File** - This selection will display only the commands associated with the File menu in the Commands view.
- **Help** - This selection will display only the commands associated with the Help menu in the Commands view.
- **Tools** - This selection will display only the commands associated with the Tools menu in the Commands view.
- **View** - This selection will display only the commands associated with the View menu in the Commands view.
- **Window** - This selection will display only the commands associated with the Window menu in the Commands view.

**Commands** - List of commands associated with a shortcut.

**Specify a Shortcut** - A drop down list of shortcuts that can be associated to the commands.

**Currently assigned to:** - In the event a shortcut is already assigned to the shortcut it will be displayed.

Description - A read-only message of attributes associated with the selected command.

- **Assign** - Confirms changes made to commands.
- **Remove** - Deletes shortcut associated to command.
- **Reset All** - Deletes all changed shortcuts and returns them to the default settings.
- **Close** - Closes the Customize Keyboard dialog.