

# Installation Manual Pilot Pro #88405



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# 1. General Information

In this chapter you will find information on the explanation of the terms used by the Pilot Pro, the steps on creating a project and some special information regarding the programming of Pilot One.

## 1.1. Wording (setting up your Command Menu Tree.)

**Device**                      A new Device is created when you click Create Device. Each device can then be linked to a menu command that has subcommands or submenus. The device (e.g. Television) can be activated in the Pilot after sending the Project File /configuration to the unit via computer download. Each device also contains one "empty" IR Device (--01.ICP) should you choose to not build a database of IR signals but scan directly into the unit. Similar to the Pilot One menu tree.

**IR Device**                      IR Devices (new or existing) can be created, edited or added by using the tab Edit Device. While creating and editing the file it has the extension IXP and when finished (after closing the window) it has the extension ICP. **Each IR Device you create contains 51 "empty" IR Buttons (slots) to link and scan IR commands into.** The name of each IR Device will then be available in the Pilot unit for activation after downloading the configuration or for future jobs with the same brand. Example - "RCA TV" for the device "Television " in the Main Menu tree.

**IR Button**                      Where IR Signals are stored within the new IR Device you create. This is the "database" of IR signals you'll use later. There are 51 available IR-buttons for each IR Device. **These IR Button slot names are arbitrary**, have fixed names, and are only seen by the installer. The end user does NOT see these 51 slots.

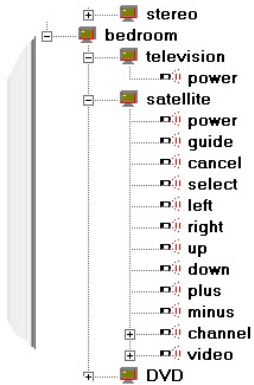
Steps:

- 1) Build an empty menu tree.
- 2) Create an IR file Database (.icp) by naming and scanning in IR signals to the 51 Edit Device button slots while connected to your computer.
- 3) Link (Configure) your new IR signals with your new device commands in the user's main menu tree.

**(See Section 4 and Section 5 for more details on these steps.)**

## 1.2. Overview on Creating a Project

### 1. Create a menu



### 2. Create your devices



### 3. Create an IR Device

Button	Signalname
X on	<not used
X off	<not used
X 0	<not use
X 1	<not ur
X 2	<pr
X 3	

-Scan or add IR signals from a file for a saved IR device

### 4. Configure the commands

- Link the IR Buttons
- Link additional macro signals

BUILD YOUR PROJECT FIRST BEFORE YOU START TO SCAN, LINK ACTION AND CONFIGURE TO YOUR NEW MENU.

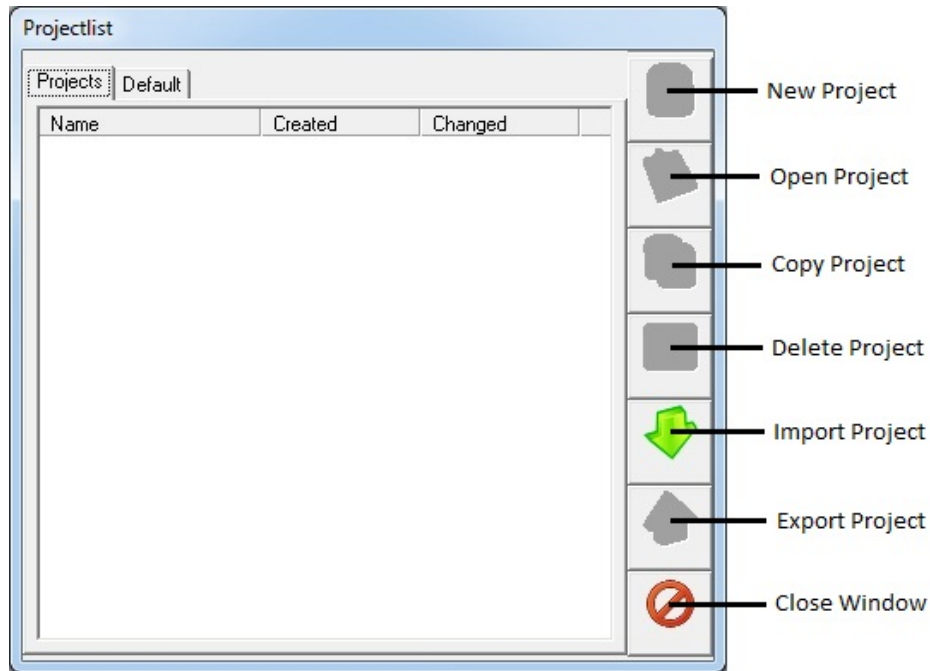
**\*\* VERY IMPORTANT TO COMPLETE AND CREATE ALL MENU TREES BEFORE VOICE TRAINING. (SEE SECTION 6.2 FOR IMPORTANT INFORMATION ON THIS STEP.)**

## 1.3. Pilot One

The trees in the menu of the Pilot One cannot be changed. There will be no displayed wordlist in an opened Pilot One project. If an incorrect configuration is transferred to the Pilot One it will not accept the menu AND WILL DAMAGE THE UNIT.

## 2. Projects

Pull-Down menu in main form: *File – Project list*



### ***New Project:***

Start in the Default Tab where you can see default Project templates.

You can Drag and Drop a project from the Default tab to the Projects Tab to create a new project or just use the New Project button.

For a Pilot Pro project you can start with a new project, a pre-programmed default project or a RE-NAMED project from an existing job. (You do this by selecting COPY and re-naming the project.)

Select the Project type:

AbleNet Pilot One -	<b>To load a <u>non-changeable</u> Pilot One project.</b>
Default Small -	<b>To create a changeable Pro project.</b>
Two Rooms -	<b>Same.</b>

As soon as you have named the new project, and confirmed it, the new project will be listed.

**Open:** Opens the selected project. (The project can also be opened by double-clicking.)



**Delete:** Deletes the selected project from the list.

**Close:** Closes the window.

**Copy:** Allows you to copy an existing project and re-name it to another project name. This step is good for when you want to keep and/or add certain menu trees from a previous job to a new job. You can then copy and rename for your new customer and edit as needed.

**Export:** Exports the selected project from the list into a file with (\*.ppr). The original name remains when exporting a project (even if the export file has a different name.) The file can only be imported if there is no existing project with the same name.

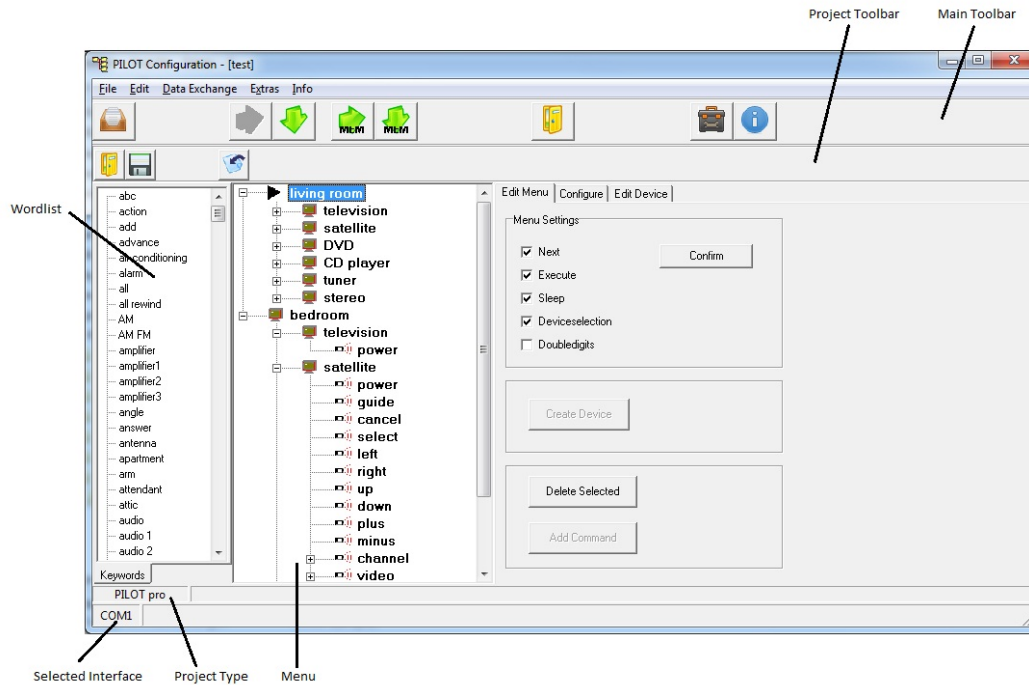
**Import:** Import a file (.spr for older Sicare projects) or .ppr for new Pilot Pro project.

**(.ppr files are great for e-mailing and sharing projects.)**

**Note:**

You can also Drag and Drop a project from the Project tab back to the Default tab to create a new default project.

### 3. Create / Edit Menus



**Wordlist:** The wordlist commands are on the left side and can be used to build your command menu. DoubleClick on the word to add it to the menu tree. **\*\*The menu tree can contain up to 92 different words.**

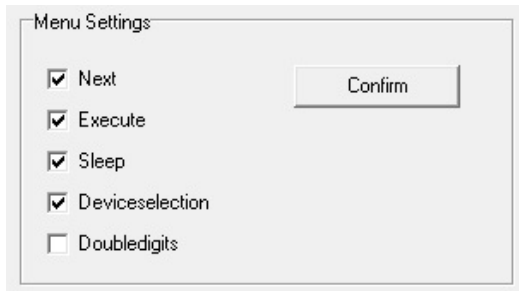
The new word is always added to any currently selected menu point. To add a word into the main menu tree no other words should be highlighted. Double click in a free area (white space) below the menu tree and then add your next word.

#### NOTICE

Only device names (e.g. Television, Telephone) or Room names (e.g. Bathroom, Living Room) can be added to the main menu tree branch. You can later “activate” them in the programming mode of the Pilot. **IMPORTANT** - These main devices/room name commands are **ALWAYS** available during voice-operation (if the default option “Device Selection” is activated for each.) Just say the word!

### 3.1. Menu Settings (These are default settings.)

If a menu item has sub-menu items there are different settings available. These options can be changed within the project for any menu. **(Be careful if you change these settings.)** If a corresponding menu item is activated the window “Menu Settings” is available in the Edit Menu tab:



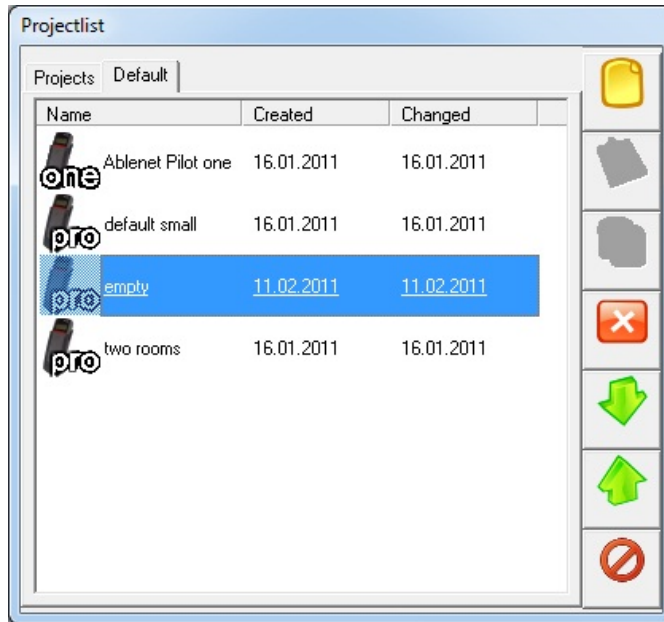
- next:** If this field is selected then the command “next” is available in this menu. Issuing this command Pilot changes automatically to the next menu point (without executing it.)
- do it:** If this field is selected then the command “do it” is available in this menu. Using this command Pilot executes the currently displayed menu point. (Just like pushing the right red “OK” button on Pilot.)
- sleep:** If this field is selected then the command “sleep” is available in this menu. Issuing this command Pilot changes to sleep mode and will only accept the command “wake up.”
- device selection:** If this field is selected you may change directly to other menus off of the main menu. If you do not wish to use this option you need to insert a menu point that leads you back to the main menu.
- double digits:** This option is used when two-number commands are needed (i.e., selecting channels on your television). By selecting this option, Pilot will wait about 2 seconds for a second number to be added before it sends the infrared signal. If you issue a second command both signals will be sent one after the other. Be careful.

**Better to use macros to send multi-channel numbers.**

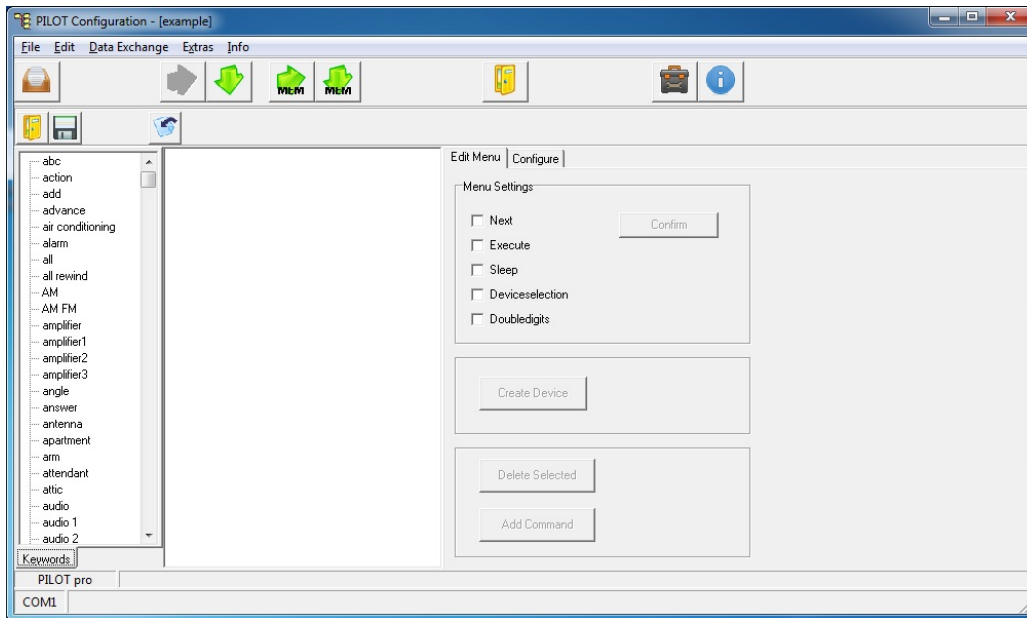
### 3.2. Example: Creating a menu in an empty project

Command word "Lamp" with the corresponding commands "switch on" and "switch off" to be created.

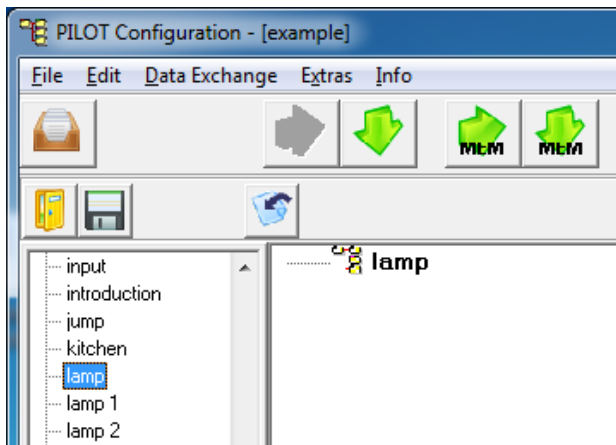
1. Start the program and open "Project list."
2. Select "Default Tab" and choose a project. .



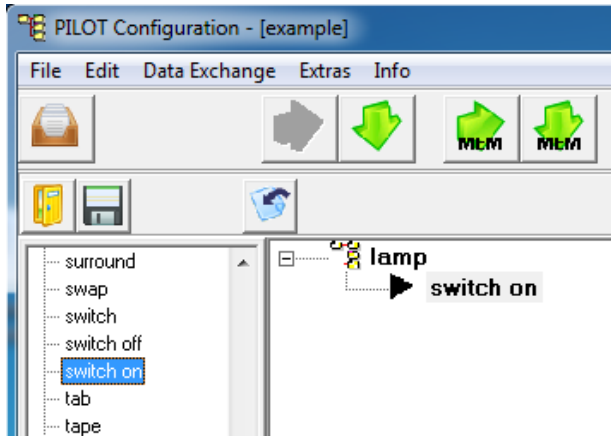
3. Click on **new (yellow folder)** to create a new project and add a name for it. It will now place it into the Projects Tab.
4. Open the new project. (Continued on page 10.)



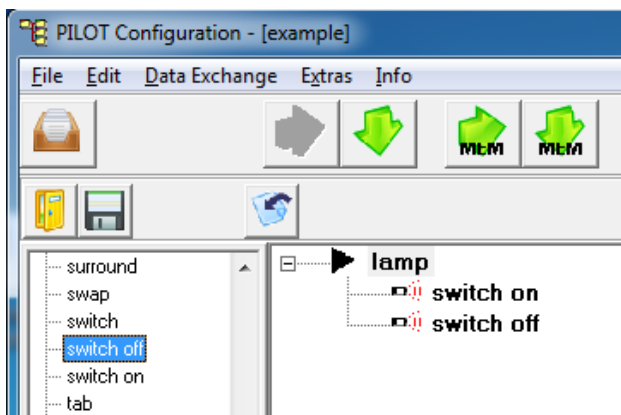
- Double-Clicking on the word “Lamp” in the word list will add it to the project window. You can also use “Add Command” button after you select the word with one click!!



6. Now double click on the word “switch on” in the word list (or click on it once and use “Add Command”) to add it to “Lamp”.



7. “Lamp” will stay high-lighted. Select the word “switch off” in the word list (repeat step 6 above) and it will be added to the menu tree under “Lamp.”



8. To Configure the commands “switch on” and “switch off” into RF X-10 signals: Click the word and choose the Configure Tab, select RF, push the “+” button and then choose the appropriate X-10 signal - (e.g., A1 On, A1 Off.)
9. To Activate “Lamp” select “Lamp”, click on “Create Device” in the “Edit Menu” Tab. Now “Edit Device” Tab is enabled too. Check (--01.ICP) and click Save Changes (floppy disk) icon. You have now activated “Lamp” and its commands are set to output RF X-10.

Deleted:

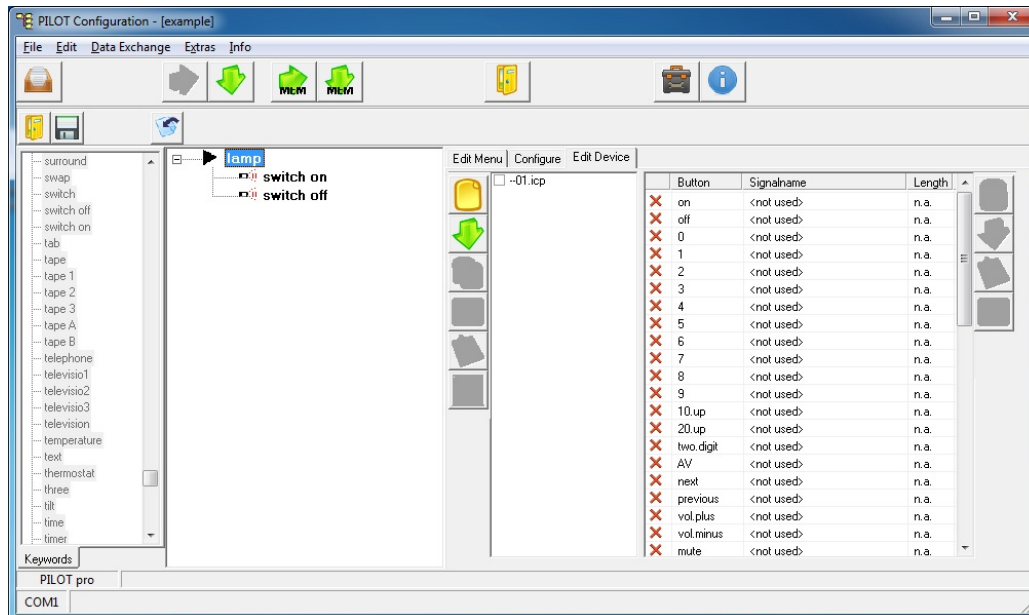
**Selecting (--01.ICP) activates the menu tree command word. This also occurs automatically when you create an .ICP file for an IR device such as TV. If you send a Project to the Pilot and don't see the word you have created you may need to manually activate the word by going into the Pilot Configuration (hold both red buttons down together) and scroll down until you see the device. Activate manually by using (--01.ICP.)**

## 4. Assigning and Creating Devices and .ICP file

Selecting a main menu point will allow you to click the “Create Device” Button. If the command menu word (Television, etc.) needs to have an IR database assigned, or created, the steps that follow will show you how.



The Edit Device Tab appears and the corresponding .icp dialogue box will be opened.

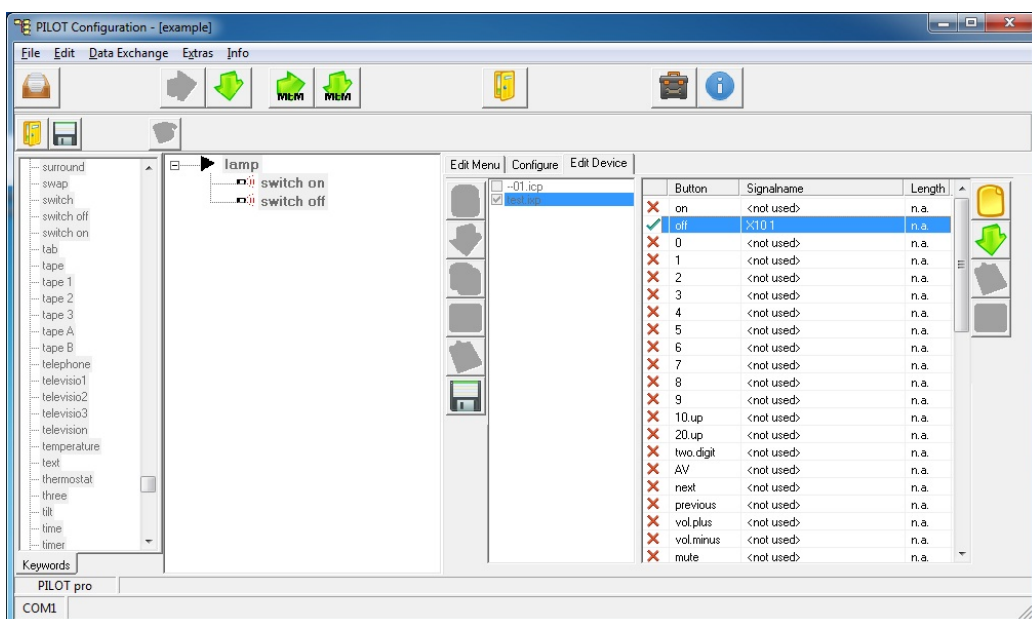


Every device will always contain at least one “empty” IR Device (**--01.ICP**) to be used or not. It cannot be deleted nor edited. It contains NO IR signals and serves as an “empty” IR device for future additions of signals without using a PC if you choose (see Section1.)

### Options:

**New IR Device:** Enter a custom name for the device to be added. The name entered serves as a file name and is displayed on the Pilot display in Configuration mode as the device name (i.e., Sony TV) for the added device (See 1.1) This newly added IR Device will also be displayed in the list of all IR Devices with the suffix **.ixp** and can be edited.



**Add IR Device:**

Opens a dialogue box where you can choose from a list of previously saved IR devices (from other projects) to add to your new project. When added it appears as a non-editable IR device (.icp) but choose “Edit IR Device” to edit it if you need to.

**Delete IR Device:**

Deletes the selected device from the list.

**Copy IR Device:**

Copies the selected IR device (i.e., Sony TV) from the current project into a list of globally available IR devices.

**Edit IR Device:**

Saved IR devices have the suffix **.icp** and cannot be edited. Clicking on “Edit IR Device” converts the selected IR device into **(.ixp)** and is now ready for editing or new scanning.

**Save IR Device:**

**Saves your changes and “closes” the open IR Device file. If you edit a device before saving you will be asked if you want to save changes or not.**

## 4. Continued - Working with .ICP files

**\*\* Working with and creating .icp files (i.e., Sony TV.icp, DisnNet.icp) can appear challenging however once you learn the steps it will be the same for every project and every device. IMPORTANT – These button slots are arbitrary, the same for every new .icp file and are ONLY used by the designer. The end user does NOT see these 51 slots. Remember – “10.up” for example, is only an empty slot for storing an IR scan from a remote control. You will later “link” the signal, stored in “10.up”, to a main menu tree word. (See Section 5.)**

Start building a database of IR scans, for your specific device, using these buttons. When you start to edit the buttons you will see either a green check or a red X in column to the left. New .icp files will have the red X. This list of arbitrary IR buttons (as well as their signals) can be selected, added or edited at this time. Assign and name any signal to this specific buttons that you want. (TIP - A “cheat-sheet” is helpful for this step.)

**Scan/Test Signal:** Scanning a new signal for this IR button can be done through the Pilot Pro connected to your PC. (see 4.1 Scanning IR signals.)



### PLEASE NOTE

Before selecting “Scan Signal” Pilot MUST be in the STANDBY MODE and connected to a PC. Turn the unit off using the side slide button then turn back on but DON'T push the left red button on the Pilot. **Battery symbol ONLY signifies standby mode.**

**Signal from file:** Signals from files can be selected from an existing IR project that has been previously scanned or one from an older Pilot menu that must be converted first. (see 4.2 Signal from File.) FYI – There may be some existing files in this option but are for European usage and can be deleted if you choose.



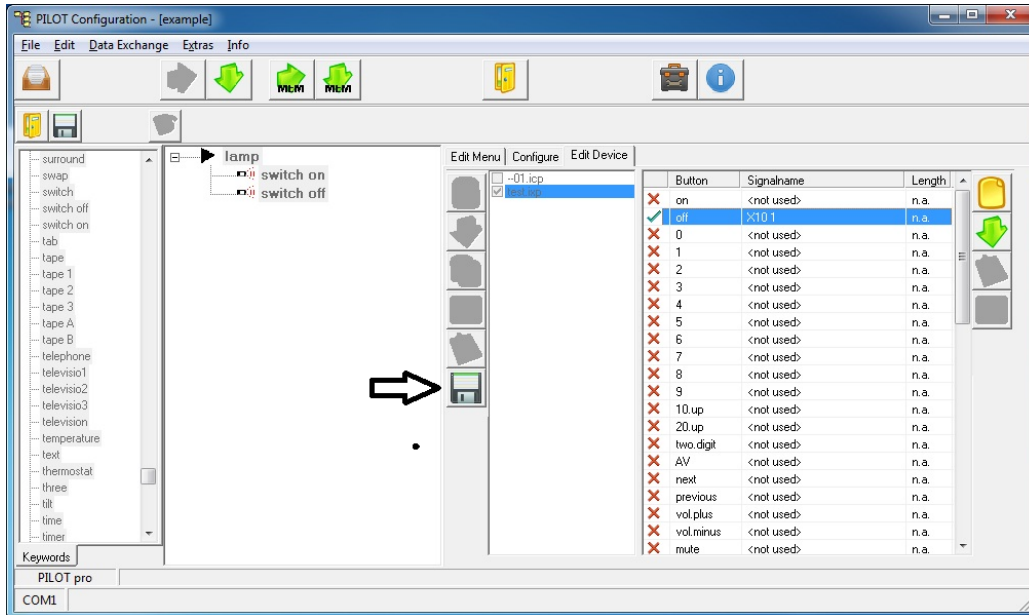
**Edit Signal:** Allows you to change the signal name and length of the signal on the list. Highlight the line to edit it. (Example – A channel up scan you created may be to “long” and it makes the channel to jump more than one at a time. Change the length of signal down to 5 perhaps.)



**Deleting signal:** Deletes the signal assigned to the selected IR button.



**After naming and scanning a remote control signal to a Signlename button (“slot”) it will be displayed in the list of signals and will have a green check.**



Remember - The number of repetitions, or signal length, and the Signal Name can also be edited by clicking on the corresponding field.

**Save IR Device:** Selecting this will save the edited IR device.

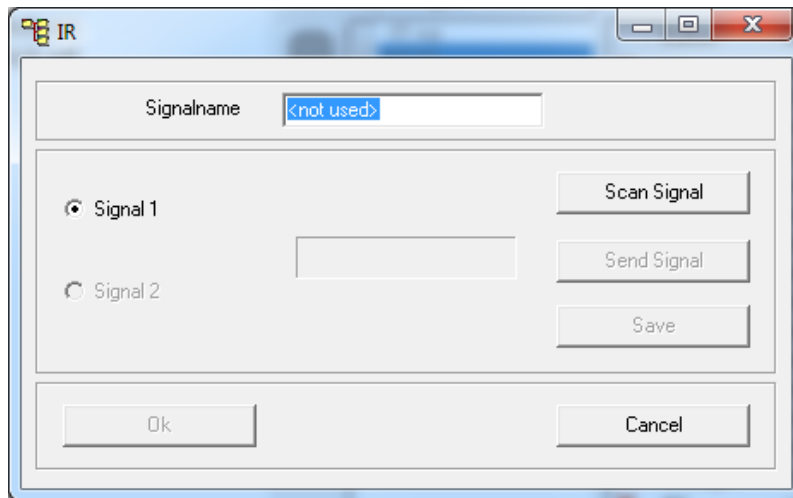
**VERY IMPORTANT – Once your scanning work is done, and you have assigned as many empty slots to IR signals as needed for that device, click Save Button (floppy disk) to save and exit. Also do this every time you make changes or edits to the .icp file.**

## 4.1. Scanning an IR signal

### PLEASE NOTE FROM SECTION 4

Before selecting Scan Signal the Pilot must be in the standby mode and connected to a PC. The buttons below are only activated when the Pilot is connected. **It will show "PC....." in the display. Com 1 or Com 3 MUST be used. (See Section 8.)**

**Select "Scan Signal" and you will see this. (You will name the signal now.)**



To test the signal first - Keep the left key on your Pilot pressed down. After approximately 1 second the display changes to:



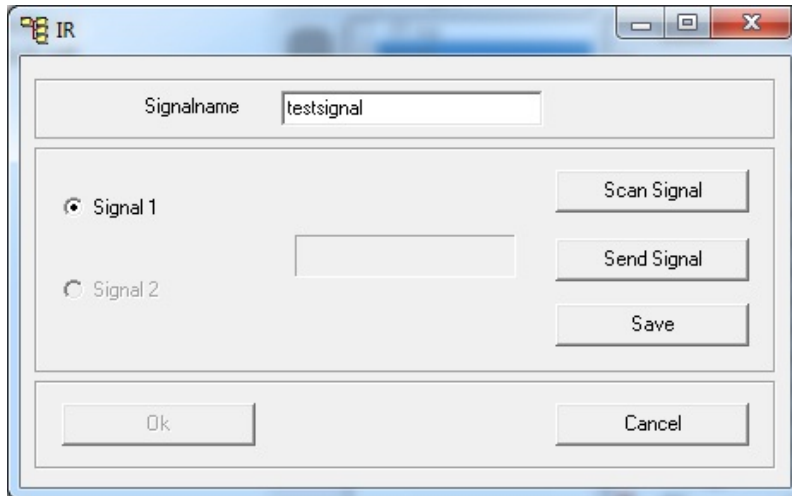
Put the remote control right in front of the Pilot and push a key. Change the position slightly until a bar graph appears in the display. (The more bars the better the scan.)



Release the red key and keep this position.

WITHOUT MOVING THE REMOTES push the button Scan Signal.

You now have several seconds to send the signal before it “times out.” Push the button on the remote control of the signal you want to teach to your Pilot. DO NOT HOLD THE REMOTE CONTROL BUTTON DOWN. PUSH QUICKLY SO JUST A FEW MILLISECONDS OF IR SIGNAL “PULSE” IS CAPTURED. It may take up to 20 seconds before the buttons Scan Signal, Send Signal (To test) and Save will be active again.



**Send Signal:** Pilot sends the scanned signal to see if the signal has been scanned correctly. You can point the Pilot toward your actual device (Sony TV) push Send Signal and see if the device actual does that command.

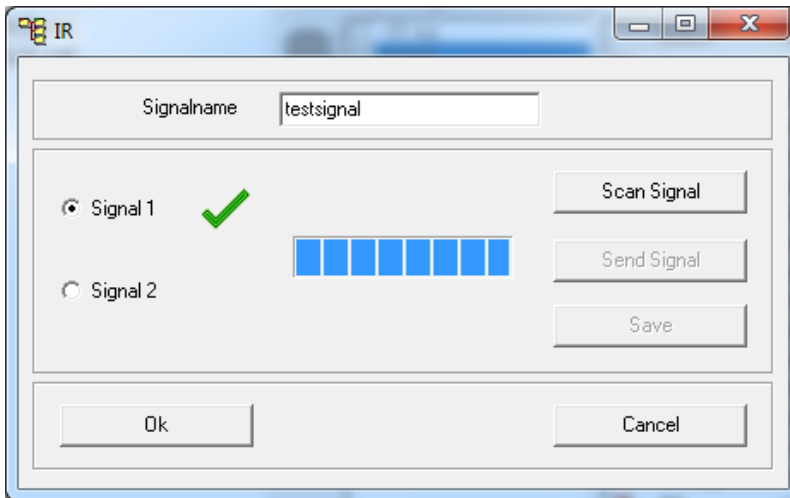
**You can also test signals which have already be stored in this way.**

#### TIP

In case the newly added signal does not work correctly, or if it takes a lot of time until the buttons become active again, please check the batteries in the remote control. **Low batteries and florescent lights are some main reasons for faulty scanning.**

Click on Scan Signal again and repeat the above steps if there was a problem with the scan. It will overwrite the previous scan!

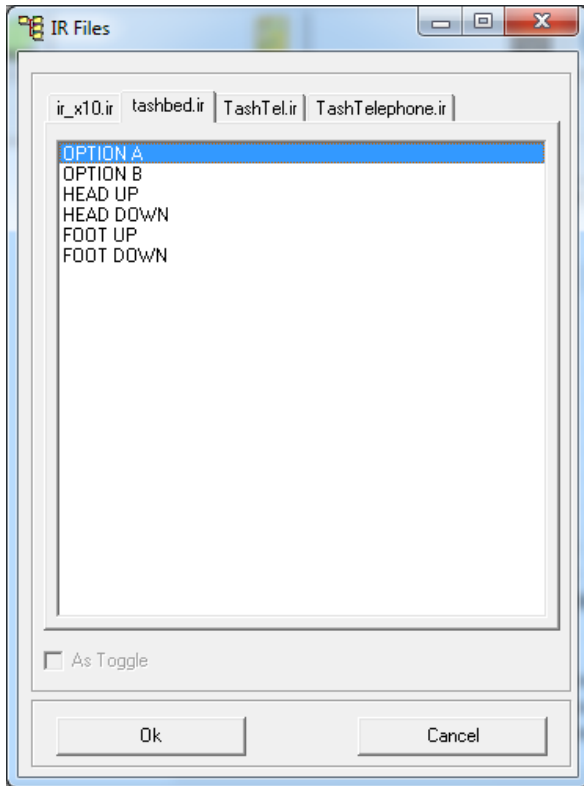
**Save:** If the scanned signal is working, click Save. A bar graph will appear (see next page) in the display showing the progress of the scan in percentages.



**\*\* Important – For IR Devices that have “Toggle Bit” signals you can use option Signal 2 to add the second signal. Both added signals will be saved and your Pilot changes automatically between those two signals when sending. It is rare to encounter remote controls with toggle bits but it occurs now and then.**

To exit the scan procedure click Ok then Cancel and this will close the window. You will repeat these steps for all the IR buttons on the remote control that you need.

## 4.2. IR Signal from file



This dialog box lists all IR files that are available. Open the chosen file by clicking on the tab. Select the desired signal and confirm with OK. If you have chosen the option As Toggle before the signal will be assigned as a second signal to this IR button.

**Remember – Signal from File is normally used by advanced Pilot installers and programmers who have older Pilot projects and who wish to “re-use” specific signals from previous jobs. Contact AbleNet Technical Support and request more details on using “Signal from File.”**

## 5. Configuring Menu Items

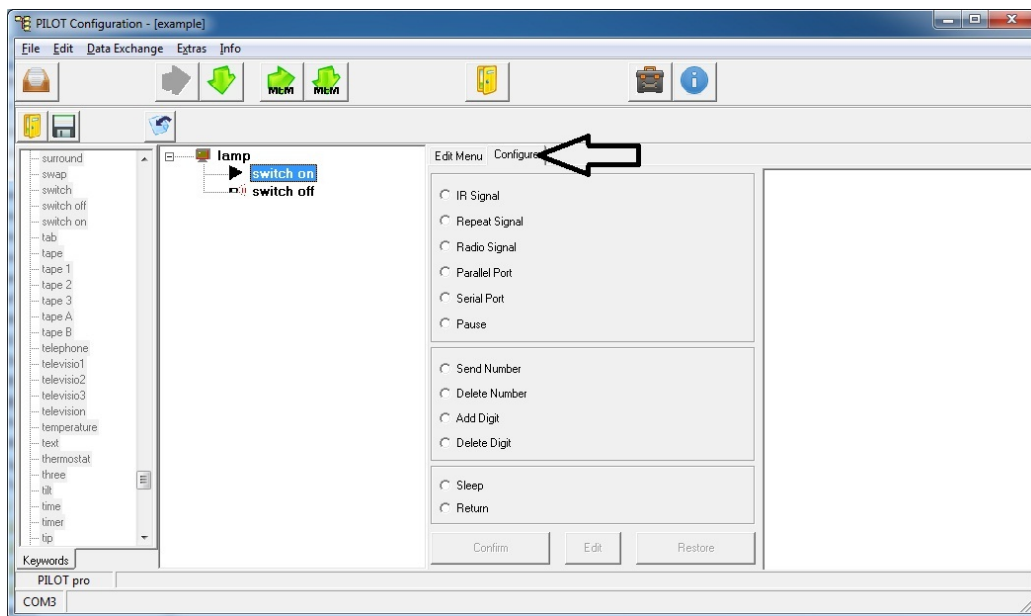
### Pilot One tip

The functions described in this chapter are **not** available within a Pilot One project.

Configuring menu items is the last step in preparing your new Pilot project to be downloaded into your system. This step is where you “LINK” your newly created .icp files to your main menu word tree.

**Basically this step is where you assign the actions you want performed when the user gives a voice command. Example - You will configure the word “Switch On”, to send the IR signal” Power”, from the .icp files you’ve created from all your scanning work.** The screen shots below show how to configure a Lamp.

The following dialogue box appears:



**Confirm** After you have made changes click “Confirm” to store them.

**Restore** Displays the last stored actions for this word.

**Edit** Opens a dialog to edit the action. Be careful with this as you must know what to write.

**Add:** Adds the selected action to the end of the list of linked actions.



**Insert:** Inserts the selected action to the selected position of the list of linked actions.

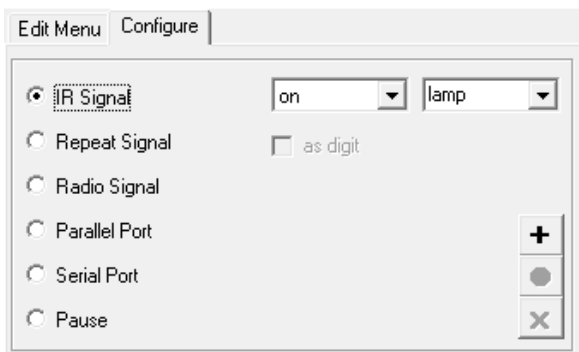


**Delete:** Deletes the selected action from the list.



The various actions can be combined as much as needed or **for creating macros**.

### **Configuring IR Signals:**

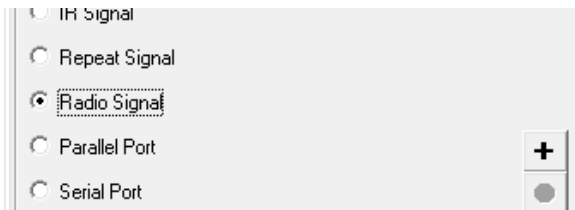


When you click on a sub-menu word in the user's tree you will select the above "configure" tab. (This corresponds with the .icp files you created in Section 4.) It sets what IR (or RF) signal is actually sent when the user gives the voice command.

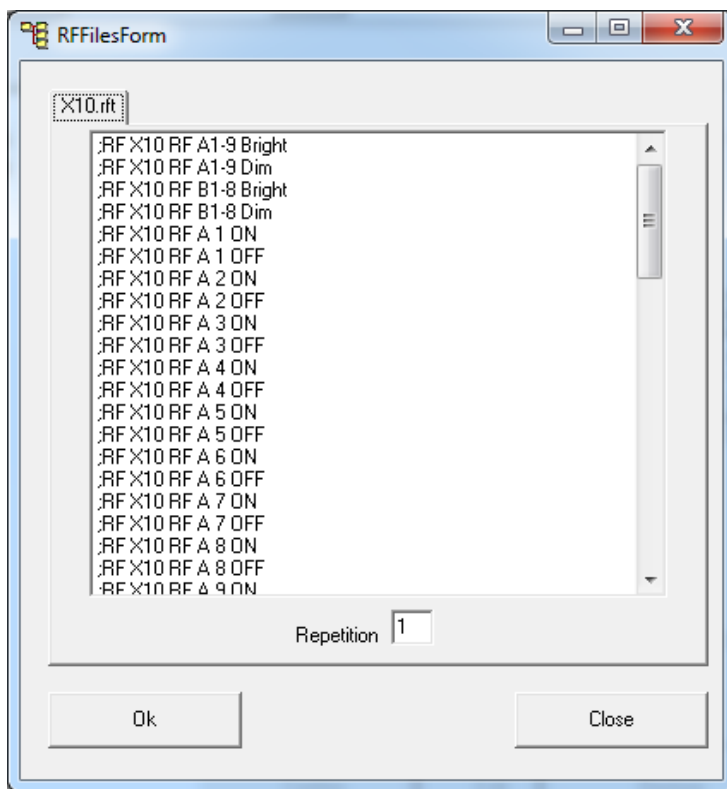
VERY IMPORTANT - The left drop-down selection box displays the 51 arbitrary buttons you have worked with before. (They are the same for every device.) The right drop-down selection box lists your main menu device words. Careful – they are not shown with specific names (i.e., Sony TV) but you will just see television, cable, etc. If you have more than one TV in the main menu tree then you will see it as television, television1, television2, etc.

Select the button on the left drop-down that contains the IR signal in your .icp file and press "+". The IR signal will now appear in the upper right window as *SendButton(..)*. You have successfully linked the word to the command and its corresponding signal.

Only main menu words, already linked to a device, will be seen in the second selection box.

**Radio signals for X-10 Control:**

In your Configure tab click RF Signal, then click “+” and a list of Pilot RF X-10 signals appear. (A to P - 1 to 16) plus Dim and Bright.



By using this tab different X-10 radio signals can be opened. Select the desired signal from the list, determine the length of the signal in the field “repetition” (how many milliseconds the Pilot will transmit) and confirm with “OK.”

Radio signals in the list of linked actions are displayed with their name on the top line and their signal parameters.

## Other Configuration tools

### **Actions for Telephone use:**

The Telephone Actions shown are for advanced Pilot programmers. In North America the Pilot is supplied with a fully complete project for AbleNet Telephones and have various access options to suit your needs.

**\*\* For instructions on how to use AbleNet Telephones with Pilot refer to the Pilot Pro Operators Manual or call AbleNet for assistance.**

### **Wait:**

Choose a “pause” setting between 1 and 1000. It appears as *Wait(..)*.

This is used for building macros for favorite TV channels, macro phone numbers or other customized macros where a pause may be needed between signals.

Example - for channel 425 you would build a macro using **Four, Wait, Two, Wait, Five.**

**Return:**


Sleep  
 Return

(By default this feature is disabled. FOR EXPERIENCED INSTALLERS ONLY!!)

**Repeat Signal:**


IR Signal  
 Repeat Signal    on    200  
 Radio Signal  
 Parallel Port    +

Using this function allows a selected IR Button in the left selection box to be continuously repeated based on the ms setting from the right selection box. It can be stopped by any voice command. In the list of the linked action it appears as *StartScan(..)*.

**Sleep Mode:**

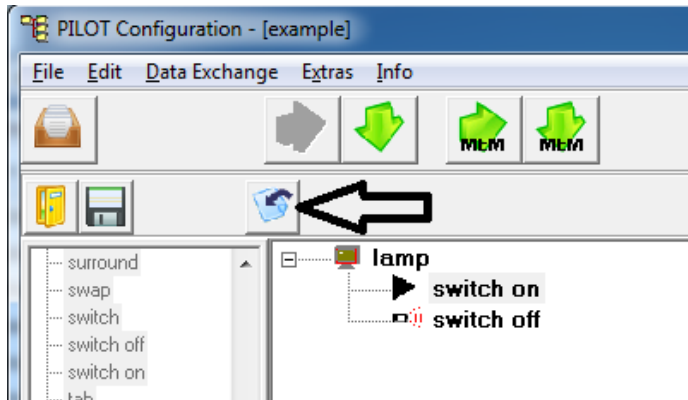

Sleep  
 Return

Using this function allows you to link the Sleep command to an action. It appears as *PushMenu* and *SetMenu(Sleep)* in the upper right. Be very careful using this function as the Pilot "Sleep" controls are pre-set in the software configuration. Only experienced installers should use this function.

## 6. Data Exchange

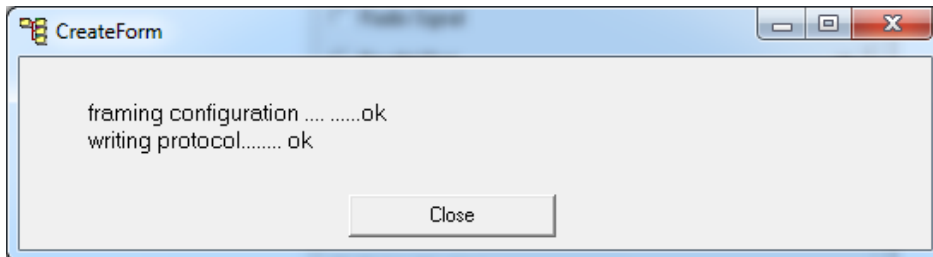
### 6.1. Create File

Before the created configuration (or New Project) can be transferred to the Pilot the configuration file must be created.



If the menu item Create File is greyed-out then project must be saved first (File – Save or Save Button in the Project Toolbar (floppy.)

This dialog is shown while the file is being created.



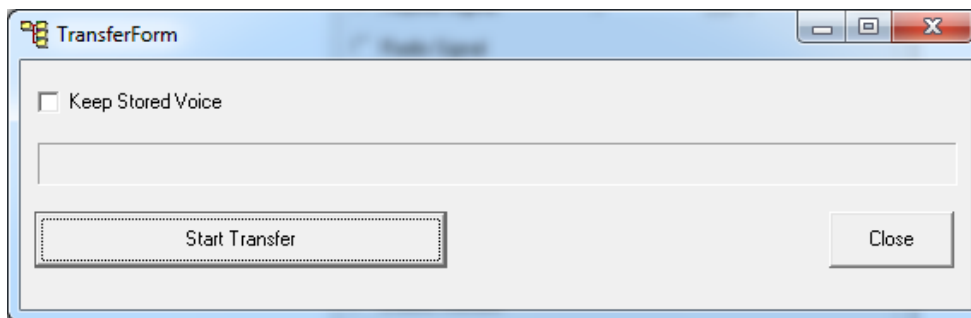
If all steps are finished with “ok’s” then the window can be closed. You may at times have an error message as the software tries to complete Create File. If this occurs please write down the error message and contact AbleNet Technical Support.

## 6.2. Transfer Configuration

### ATTENTION

Before you click on Transfer Configuration the Pilot must be connected to the computer and in Stand By (only a battery symbol in the display). Start Transfer will be available as soon as there is a connection between Pilot and computer (Pilot display shows "Pilot PC...").

Transfer configuration is only available if there is an existing configuration file and the configuration file was created after saving the project. The transfer dialog is shown.



\*\*\*\*\* EXTREMELY IMPORTANT\*\*\*\*\*

THE OPTION "KEEP STORED VOICE" IS USED WHEN NO NEW WORDS ARE ADDED TO A PRE-EXISTING PROJECT ALREADY DOWNLOADED TO THE PILOT.

IF NO NEW WORDS HAVE BEEN ADDED TO A PRE-EXISTING MENU TREE, AND YOU ONLY CHANGED OR EDITED IR FILES, USE "KEEP STORED VOICE."

IF YOU ADD A WORD TO A PRE-EXISTING MENU TREE YOU MUST RE-TRAIN THE ENTIRE VOICE FILE!!!!!!

IT IS VERY IMPORTANT THAT YOU PLAN OUT YOUR MENU TREES AND DECIDE WHICH IR BUTTONS YOU WILL NEED TO OPERATE A PARTICULAR IR DEVICE BEFORE YOU VOICE TRAIN. DISCUSS THIS WITH THE USER BEFORE YOU VOICE TRAIN AND REVIEW ALL THE BUTTONS IN THE TREE FIRST.

After clicking on "Start Transfer" the memory in the Pilot will be deleted before the new configuration file is transferred. When the bar is full and the button shows "Close" close this window to restart the Pilot.

### 6.3. Read Configuration/Read Memory

With these functions you can make a backup of the whole memory (including the voice training.) This should be done upon TOTAL completion of the job!

**\*.mem = The entire project with voice files uploaded into your PC.**

**\*.cim = Just the configuration and IR signals.**

These files can only be used as back-up files and cannot be edited.

Choose the folder where you want to store the back-up file and type in a filename before clicking OK. The Transfer window will be shown and clicking "Start Transfer" will begin the reading memory from the Pilot.

#### ATTENTION

**Before you click on "Start Transfer" the Pilot must be connected to the computer and in Standby (only a battery symbol in the display). "Start Transfer" will be available as soon as there is a connection between Pilot and computer (Pilot display shows "Pilot PC...").**

### 6.4. Transfer Memory

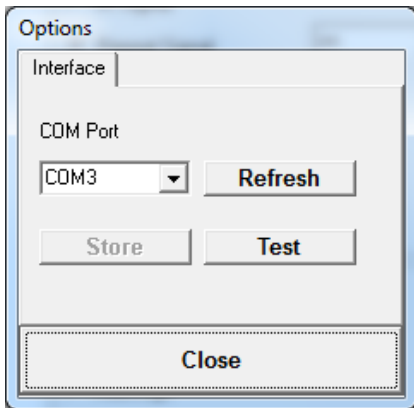
This allows for the transfer of \*.mem files back into the Pilot. Choose the folder where the file is located and click OK. Click "Start Transfer" to begin downloading file.

Great for keeping all your projects safe in case of equipment damage, warranty replacement, etc.

## 7. Interface

Menu *Extras - Options*

Or



You can see all available COM interfaces on your computer. Choose the appropriate setting. (Try to use COM1, COM 2 or COM 3.) When using a USB-TO-SERIAL Adaptor it will usually add many different COM Port settings in this dropdown section. Pilot needs 1, 2 or 3 but you try as many as needed to get the link between Pilot and laptop.

- |         |  |
|---------|--|
| Refresh | Updates the list of available COM ports if you have connected your USB adapter after opening this window.              |
| Test    | If your PILOT is connected and in Standby it will change between "PC...." And empty display everytime you click "Test" |
| Store   | Saves the COM port setting.  |

## 8. Printing

You can print your menu tree by using the Printer Icon (above the Keyword list) or Save to File.