BEA
OPEN UP NEW HORIZONS

DESCRIPTION

The BEAMBOX sensor is based on 15 independent active IR spots. These spots can individually be turned OFF or detect either motion or presence. This software has been designed to assist users in designing the shape and properties of the detection field produced by the sensor to fit your individual application.

The sensor accepts a maximum of 9 detection field patterns to be loaded in his memory. The software allows to create an infinity[1] of configurations, each holding up to 9 patterns.

The software runs on any Palm Powered™ product running PalmOS V3.0 or higher and that is equipped with an IRDA interface. Additionally, OmniRemote from Pacific Neotek must be installed on your device. Please refer to "Technical Requirements" for further information regarding OmniRemote.

TECHNICAL REQUIREMENTS

Hardware	Any Palm Powered™ device equipped with an IRDA port.
Palm Operating System	PalmOS V3.0 or higher
Additional libraries required	OmniRemote V2.02 (available at http://www.pacificneotek.com)

INSTALLATION

1. Make sure that OmniRemote from Pacific Neotek is installed on your Palm Powered™ device.

2. Extract the file BEAMBOXConfigurationVx.zip into a folder on your computers harddisk. (x = BEA version number of the program)
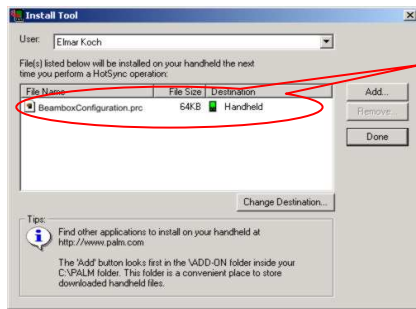
3. Use the "Install Tool" (delivered with your Palm Desktop software) to install the BEAMBOXConfigurationVx.prc on your Palm Powered™ device. Refer to the manual delivered with your device for further assistance.

4. At the next "HotSync" session, the software will automatically be installed on your Palm Powered™ device.

💡 **Hint:** The software will be installed in the category "Unfiled" of your Palm Powered™ device. For your convenience, it would be preferable to place the software in a dedicated category, ex. "BEA Sensors". To do this, proceed as follows:

In the application launcher screen, tap on the **Category Selector** to open the category list. Tap on **Edit Categories…**
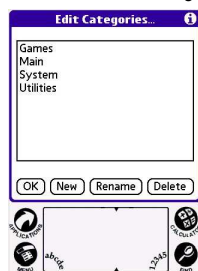
In the **Edit Categories…** screen, tap on **New** to create a new category.

Enter the category name, ex. **BEA Sensors**

The new category shows up in the list. Tap on **OK** to close this window.
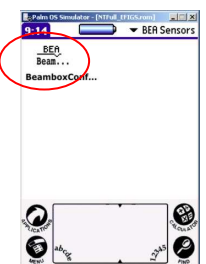

In the application launcher, tap on the menu on the top left corner (in most cases, the menu button is hidden by the clock) to open the menu. Select **Category…** in the menu.

You obtain a list of all installed applications with the category they are associated to. Select the category **BEA Sensors** for the application **Beambox Configuration**.

Now the application **Beambox Configuration** shows up with category **BEA Sensors…**

… and when selecting the category **BEA Sensors**, only the application **Beambox Configuration** shows up.

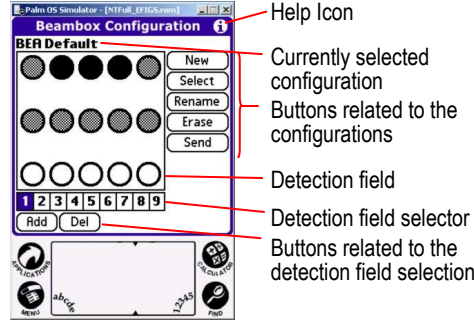[1] Number of configurations only limited by the storage capacity of the Palm device

APPLICATION OVERVIEW

Application launcher

Tap on the Icon to launch the application
BEAMBOXConfiguration
The main screen shows up.

Main Screen

- Help Icon
- Currently selected configuration
- Buttons related to the configurations
- Detection field
- Detection field selector
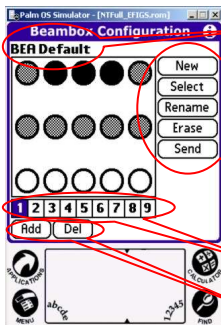- Buttons related to the detection field selection

This is the main screen of the application. All functions of the software are accessible from here.

Help Screen
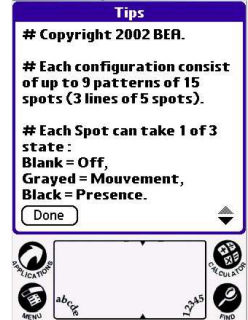
Anywhere you see the small ⓘ, by tapping on it you can get context sensitive help.

MANAGING CONFIGURATIONS

This area shows the name of the currently selected pattern configuration.
The application holds a default pattern configuration named **BEA Default.** This configuration *can not be changed!*
However you may create as many configurations as you want (limited only by the amount of storage of your Palm Powered™ device).

These buttons allow you to create a **New** configuration, **Select** an existing configuration, **Rename** a configuration, **Erase** a configuration and **Send** a configuration to the sensor.

Here you select the pattern of the current configuration you wish to display/modify.

These buttons allow you to **Add** a pattern to the currently selected configuration (max. 9 patterns are allowed within one configuration) or **Del(ete)** a pattern from the currently selected configuration.
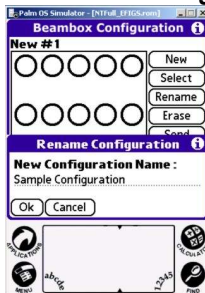
Create a new configuration
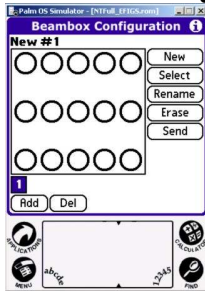
Tap on the **NEW** button to create a new configuration. The newly created configuration automatically has the following properties:
1. The name is assigned like "**New #x**" where x is automatically incremented.
2. The configuration holds one empty pattern.

### Rename an existing configuration

Tap on the **Rename** button to rename the currently selected configuration.
You will be asked to enter the new name to assign to this configuration. Enter the name and tap on **OK** or leave this screen by tapping on **Cancel**.

In this sample, we assign the new name *Sample Configuration* to the configuration *New #1*.

### Create/Delete a pattern within a configuration
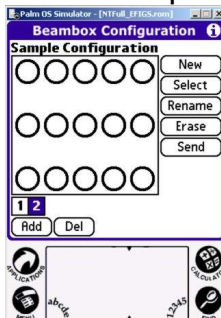
Tap on the **Add** button to create a new pattern within the currently selected configuration. The new pattern will be added at the end of the list of patterns and will automatically become active.
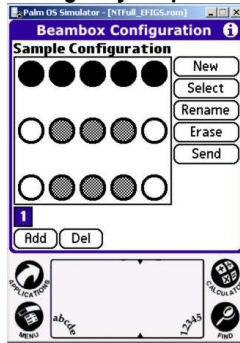
You may create up to **nine patterns** per pattern configuration.

You can delete the current pattern by tapping on the **Del** button.
If your configuration holds only one pattern, this pattern can not be deleted, although you may delete the whole configuration (see "Delete a configuration" below).
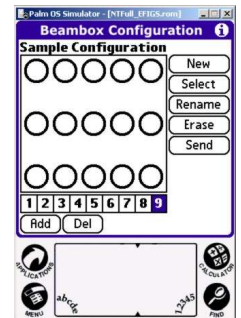
Configure your pattern

Define the properties of your pattern using the graphical representation:
Each circle corresponds to an IR-spot of the sensor. Each spot can take one of three states:

○ **TURNED OFF**
This spot is turned off and has no function at all.

◍ **MOTION DETECTION**
This spot is only sensitive on motion and does not recognize a presence.

● **PRESENCE DETECTION**
This spot is sensitive to a presence and to motion.

You can change the state of each spot simply by tapping onto the circle. A tap changes the state from TURNED OFF to MOTION DETECTION and then to PRESENCE DETECTION. The next tap changes the state to TURNED OFF again.

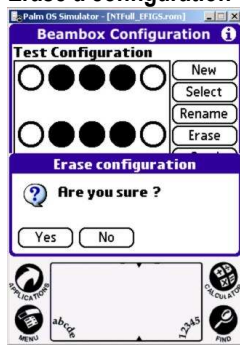The upper line of spots are the spots close to the door, the lower lines are the spots away from the door!

Select a configuration
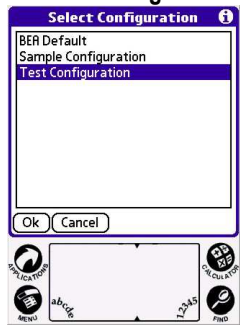
Tap on **Select** to open up the list of existing configurations (as shown on the left).
Tap on the entry corresponding to the configuration you would like to select and then tap on **OK**.
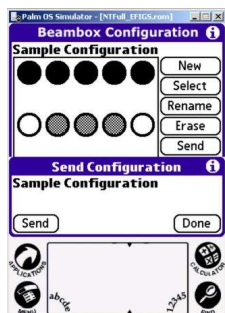
Erase a configuration

Tap on **Erase** to erase the currently selected configuration. You will be asked to confirm the operation. This operation erases the configuration completely with the patterns included in this configuration.

If you wish to erase only one pattern from within a configuration, please refer to "Create/Delete a pattern within a configuration".

SEND A CONFIGURATION TO THE SENSOR

Tap on **Send** to send the currently selected configuration to the sensor.

This program uses the IR communication port of your Palm Powered™ device. Before sending your configuration to the sensor, please ensure that the IR-port of your Palm device is in front of the center axis of the sensor where the IR receiver is located. The Palm Powered™ device should also be hold at a maximum distance of 10-15cm from the sensor.
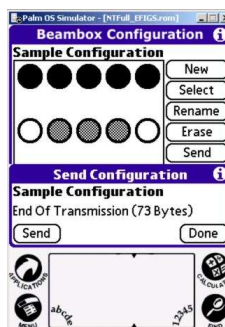
All patterns included in your current configuration will be send to the sensor. Depending on the amount of data to transfer (mainly this depends on the number of patterns within your configuration) this may take up to 10 seconds.
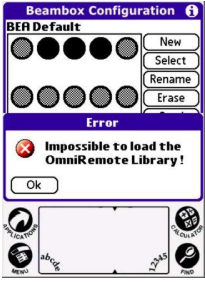
LED SIGNAL from the sensor after transmission of data:
If the transmission has been successful, the green LED of the sensor flashes.
If the transmission failed, the red LED of the sensor flashes.

In any case, the sensor runs a setup procedure after transmission of all data. Ensure that there will be no motion in front of the sensor during this setup!

	SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
	The following error message appears when trying to send a configuration: 	The library ORlib.prc has not been installed to your Palm Powered™ device. You can check if the library is installed in the Info screen of your Palm Powered™ device (accessible from *Main Menu – Info).* 	The OR Library comes with the OmniRemote software from Pacific Neotek. Please check if the OmniRemote software has been correctly installed on your Palm Powered™ device and install it if necessary.
	The sensor blinks red after transmission of the pattern configuration.	The transmission failed (data lost) for any of the following reasons: • The Palm Powered™ device was too far away from the sensor or did not point to the IR-receiver of the sensor. • The batteries of your Palm Powered™ device are weak.	Reduce the distance between your Palm Powered™ device and the sensor and point to the middle of the sensor. Replace the batteries of your device (the IRDA port of your device needs enough power to ensure reliable data transmission).