PS3IR-1000

User Manual

Version 1.7

What is new in Version 1.7

- Version 1.7 is a major update to the PS3IR-1000 firmware and its software utility. Most of the changes have been made "under the hood" to improve stability, reliability, performance, and maintainability. Most of these changes will not be apparent to the casual user (unless you are a current macro user).
- The macro interface is totally rewritten and is incompatible with previous macros. The new interface features programming by pressing buttons on a virtual remote to enter your macro commands. The facility to edit macros is vastly improved making it more attractive to use this feature. Any macros you currently have will have to be rewritten manually after this upgrade.
- The firmware update interface is new. This utility automatically checks if you need to upgrade as soon as the PS3IR-1000 is detected. There is no "Check Firmware" button anymore. You MUST upgrade the firmware to be able to use this software utility.
- The look and feel of the software utility have been streamlined:
    - Updated virtual remote windows make the buttons easier to locate and understand;
    - When multiple windows are required, they are managed together keeping them grouped;
    - The macro facility is reorganized to a separate tab (rather than a button);
    - The status bar is reorganized into two portions – a message portion and a status portion making it a more logical way to communicate overall information to the user.

We continue to strive to keep the PS3IR-1000 a stable and reliable product. As such, we welcome your feedback and suggestions.

Specifications:

- Dimensions 3.2” x 2.0” x 0.6” (82.5 x 51.3 x 15.1 mm)
- Weight 1.2 oz (34 g)
- Power Requirements 5 Volts, 100mA
- Temperature Range 32-104 °F (0-40 °C)
- Relative Humidity 15% - 95% Non condensing
- Placement In view of remote – not in direct sunlight
- PC System Requirements PC: Windows 2000 or later

Warnings:

- Do not expose PS3IR-1000 to excessive heat.
- Install only indoors in dry locations.
- Clean with dry or slightly damp soft cloth.

Liability Statement

Every effort has been made to insure that this product is free of defects. Schmartz, Inc. cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use.

Schmartz, Inc. reserves the right to revise any of its hardware / firmware to improve its products where necessary or desirable.

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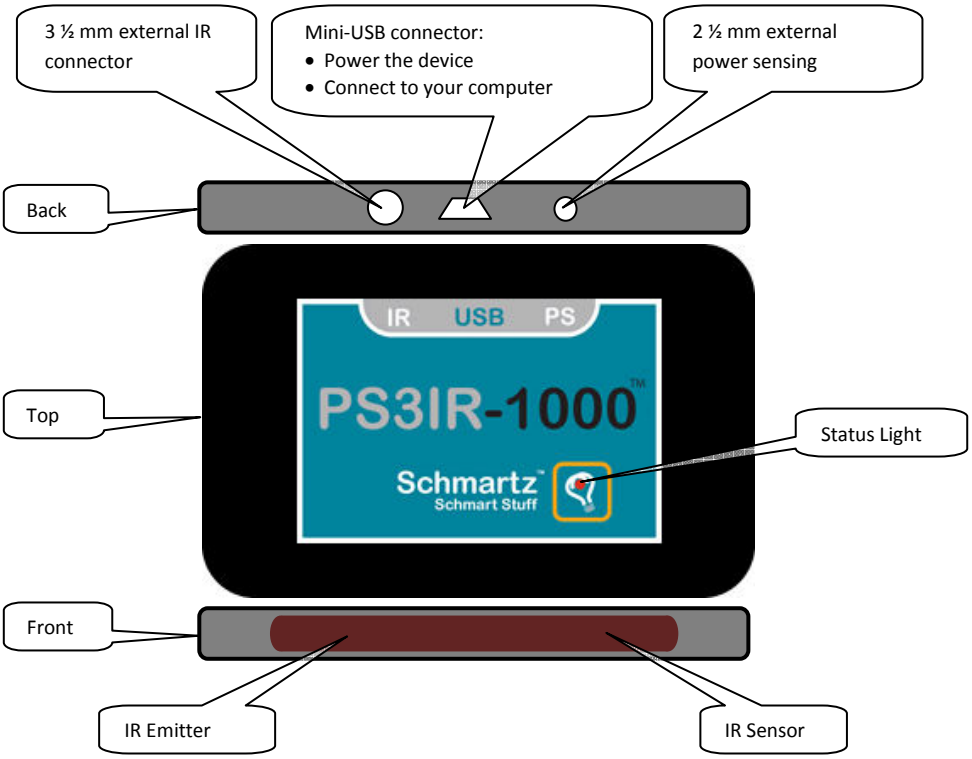
Introduction

Getting Acquainted

Let's look at the PS3IR-1000 device layout and terminology. The picture below is what your device looks like from the back, top, and front views.



From the back, there are three connectors, from left to right these are:

- IR, a 3 ½ mm female connector used to connect to an external IR source (IR Repeater);
- USB, a mini USB connector used to power your device or connect to your PC for various configuration and support reasons;
- PS, a 2 ½ mm female connector used for optional external power sensing.

From the top, there is a status light that is visible in the Schmartz logo. The status light will be on when power is applied and will flash as commands are being processed. The status light will help you verify that the device is operating properly.

From the front, there are two IR devices, from left to right they are:

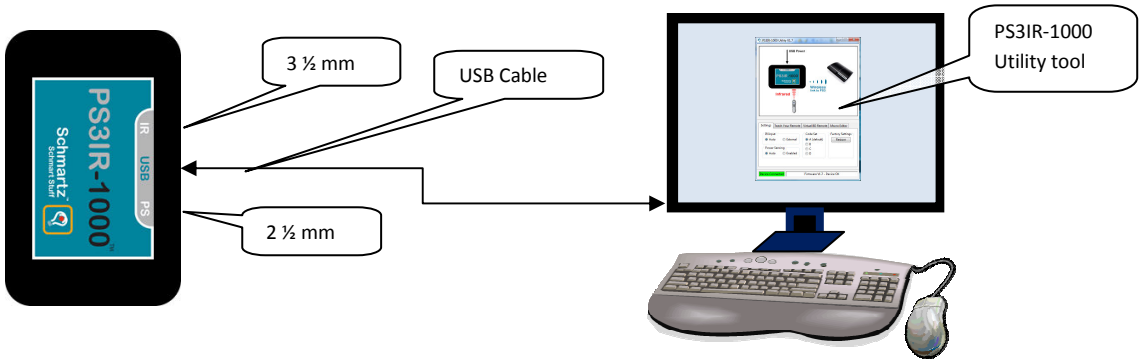
- IR emitter used during "Teach Your Remote" operations;
- IR sensor used for external IR command sensing. This sensor must have line of sight with your remote control in order for the sensor to "see" the IR commands.

Utility tool

The PS3IR-1000 comes from the factory with its features configured properly for the most frequent use. If you wish to reconfigure or take advantage of more advanced features, you need to attach your PS3IR-1000 to your computer and utilize the PS3IR-1000 Utility tool. With this Utility you may:

- Check Firmware Status
- Configure IR inputs to use an IR repeater (will automatically configure using “Auto”)
- Configure PS3 power sensing (will automatically configure using “Auto”)
- Configure IR Code Set
- Restore Factory Settings
- Train your universal remote if the codes are not otherwise available
- Operate your PS3 directly from your computer
- Create or modify user macros

To use the PS3IR-1000 Utility, connect the PS3IR-1000 to your computer using the supplied USB cable. The Utility is available for any PC running Windows 2000 or later. The program can be downloaded from the Schmartz.com website. There is no “install” process necessary on your computer.

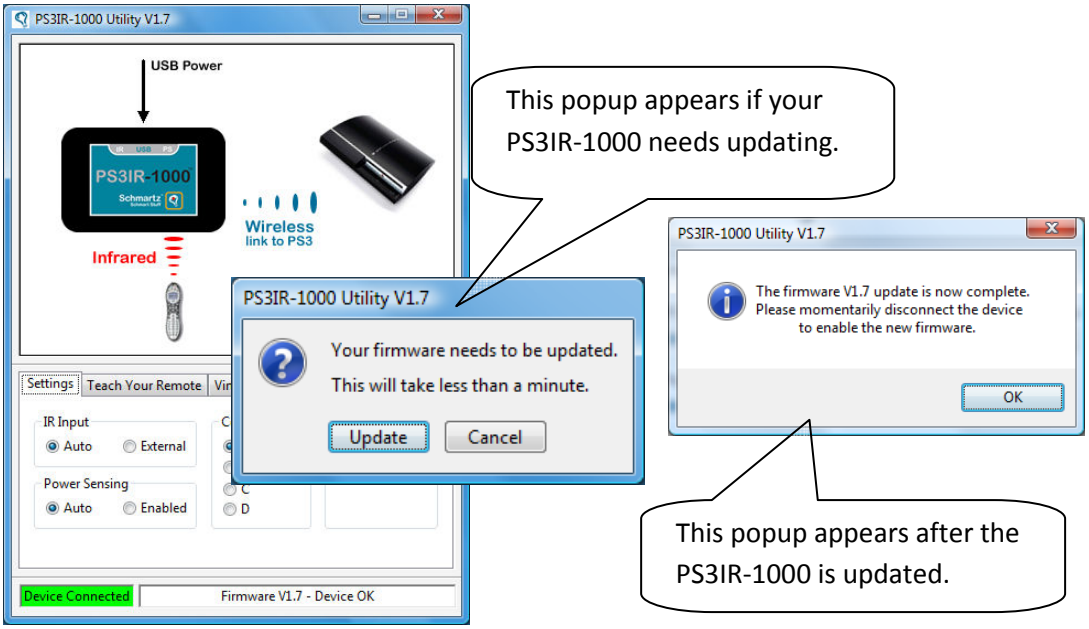


You may start the Utility before or after connecting your PS3IR-1000 to your computer. When the Utility starts, a primary window appears on your computer monitor. The bottom section of the window is a status/message bar that is used to document the connection of the PS3IR-1000 to the Utility tool. If the status portion is green, the device is properly attached and operating; if the status portion is red, the device is not attached or is not operating properly. The status light on the top of the device will light up signifying power is on. Appropriate messages appear in the message portion.

Check Firmware Status

From time to time Schmartz may determine that firmware updates are required to keep the PS3IR-1000 operating properly or to add new features. If the device detects internal firmware corruption, the status light will continuously flash rapidly. It will be necessary to attach the PS3IR-1000 to your computer and run the PS3IR-1000 Utility tool to check firmware status and download new firmware.

The very first thing the Utility does when a PS3IR-1000 is detected is to check firmware status. If the firmware is out of date (or if the firmware has become corrupted), the utility will ask you to either update the firmware or cancel the utility. In no case will the utility continue until the firmware has been updated. The update process takes less than one minute and the status light will flash while new firmware is being loaded. At the end of firmware update, you will have to briefly unplug and re-plug the device to complete the update process (think of it as restarting your computer after an update…).

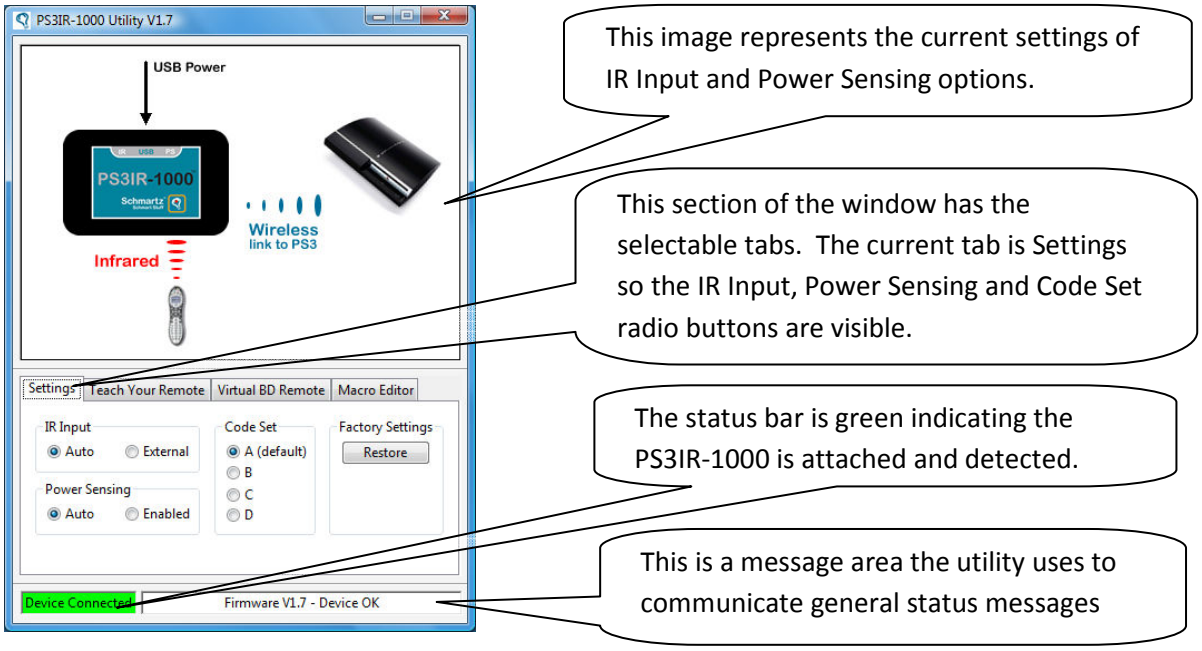


Utility Organization

The Utility window has two major sections. The top section is reserved for a diagram that depicts the connections needed for proper operation with the current configuration selections. The center section is tabbed to select the four major functions of the Utility:

- Settings
- Teach Your Remote
- Virtual BD Remote
- Macro Editor

The following image represents starting the Utility tool with a PS3IR-1000 attached to your PC (assuming the Firmware Status Check is OK).



Settings

With the first tab of the utility, you can perform 4 general functions:

- Configure IR Inputs
- Configure Power Sensing
- Select Code Set
- Restore Factory Settings

Configure IR Inputs

The PS3IR-1000 supports all brands of IR repeater devices. To connect an IR repeater to a PS3IR-1000 use any industry standard 3 ½ mm non-attenuating mono cable between the IR repeater and the device. There are no polarity considerations for this cable connection.

There are two "radio buttons" for IR inputs. You can select either "Auto" (factory setting) or "External" (if you plan on using only the IR repeater).

With the IR input set on "Auto", the PS3IR-1000 will use the internal IR sensor until a signal is sent through the IR repeater cable. Once the IR repeater is used, the internal IR sensor will be ignored from that point forward. If the PS3IR-1000 is powered off and on, this process of automatic configuration is repeated (i.e. the internal sensor will be active until a signal is detected from the IR repeater cable).

With the IR input set on "External", the PS3IR-1000 will only process commands using the IR repeater. The internal sensor is always ignored. If you decide you DO NOT want to use the IR repeater, and you have configured the PS3IR-1000 to "External", you must reconfigure the PS3IR-1000 back to "Auto" for the device to use the internal sensor.

Configure Power Sensing

Power sensing gives the PS3IR-1000 100% accurate information about the PS3 power status. If power sensing is enabled, the PS3 must be at firmware level 2.20 or higher. Power sensing requires that the provided power sensing cable be connected between the PS3 and the PS3IR-1000.

There are two "radio buttons" for Power Sensing. You can select "Auto" (factory setting) or "Enabled" (if you plan on always using the power sensing cable).

With power sensing set on "Auto", the PS3IR-1000 will use software power tracking until the PS3 is powered on with the power sense cable plugged in. Once the PS3 is powered on, the 100% accurate hardware power tracking will be utilized. If the PS3IR-1000 is powered off and on, this process of automatic configuration is repeated (i.e. software power tracking will be active until a signal is detected from the PS3 through the power sensing cable).

With power sensing set on "Enabled", the PS3IR-1000 will only use hardware power tracking. If you decide you DO NOT want to use power sensing, and you have configured the PS3IR-1000 to "Enabled", you must reconfigure the PS3IR-1000 back to "Auto" for the device to operate properly. If you remove the power sense cable without setting the configuration back to "Auto", the PS3IR-1000 will never send any commands to the PS3 (it will believe the PS3 is powered off).

Configure Code Set

Your entertainment system may contain devices that have conflicting IR codes. If when controlling your PS3, another device (such as a SONY DVD player or PS2) responds to commands intended for your PS3, you have such a conflict. The PS3IR-1000 can correct this conflict by configuring the IR Code Set used to control

the PS3. There are four Codes Sets configurable in the PS3IR-1000: Code Set A (default), Code Set B, Code Set C and (you'll NEVER guess!) Code Set D. The definition of these codes is documented on the Schmartz website in the PRONTO CODE spreadsheets. You will need this IR code information to set up your universal remote control with the matching IR codes.

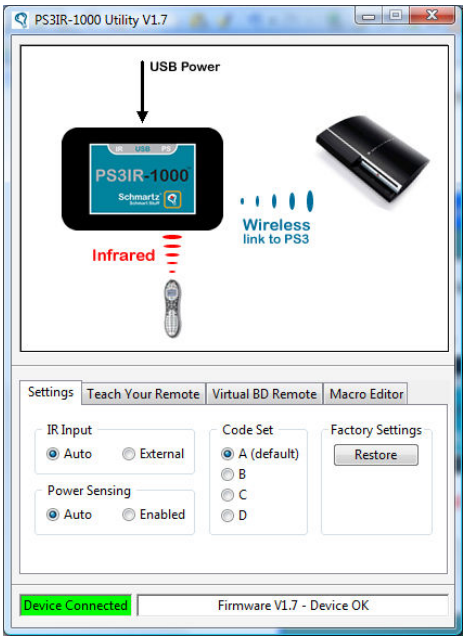
The Code Set configuration selection is made with four radio buttons in the utility program. The factory default setting is Code Set A.

After you have made the PS3IR-1000 Code Set selection, you will have to refer to the PRONTO CODE spreadsheets for the necessary information to modify your universal remote to use the alternate Code Set. You may also need the user manual for your universal remote to complete this set up step.

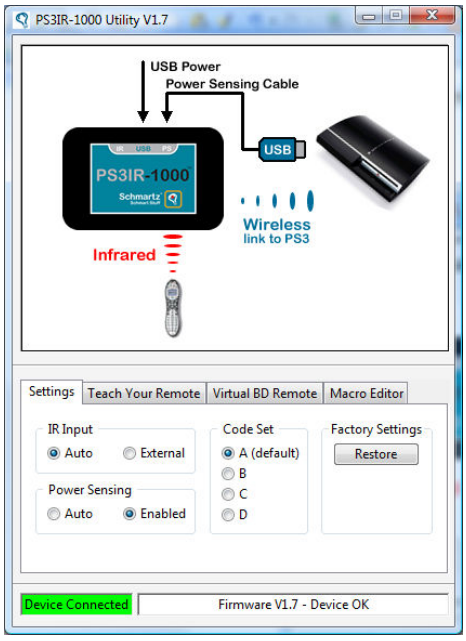
Restore Factory Settings

If you want to restore your PS3IR-1000 to its factory settings, click on the "Restore" button under Factory Settings. This operation takes less than 2 seconds and all settings are restored to "out of the box" factory settings. Note: User Macros are not disturbed when you click on this button. The "Key Duration" and "Key Spacing" ARE reset to factory original settings.

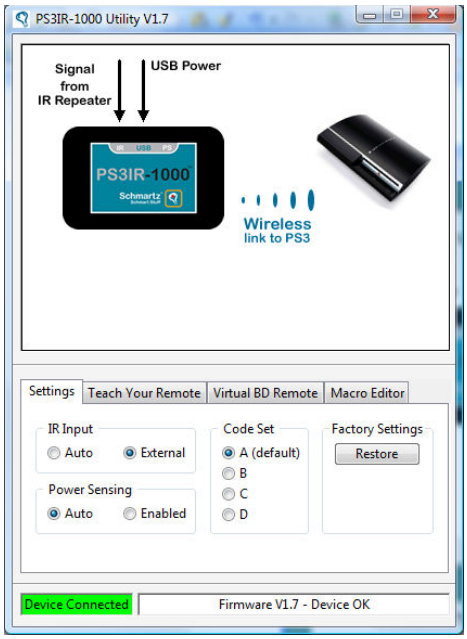
The screen images below represent the four possible settings of IR Input and Power Sensing. Each of the images below illustrates the proper connections of the PS3IR-1000, PS3 and IR repeater devices depending on the setting of the configuration buttons. All configuration settings are immediately stored in the PS3-IR1000.



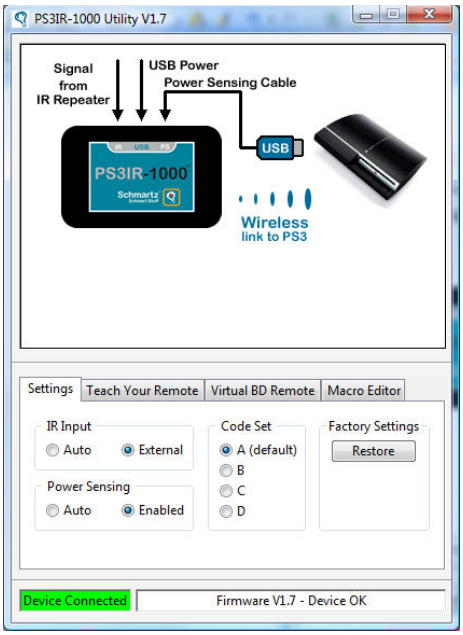
IR Auto, PS Auto



IR Auto, PS Enabled



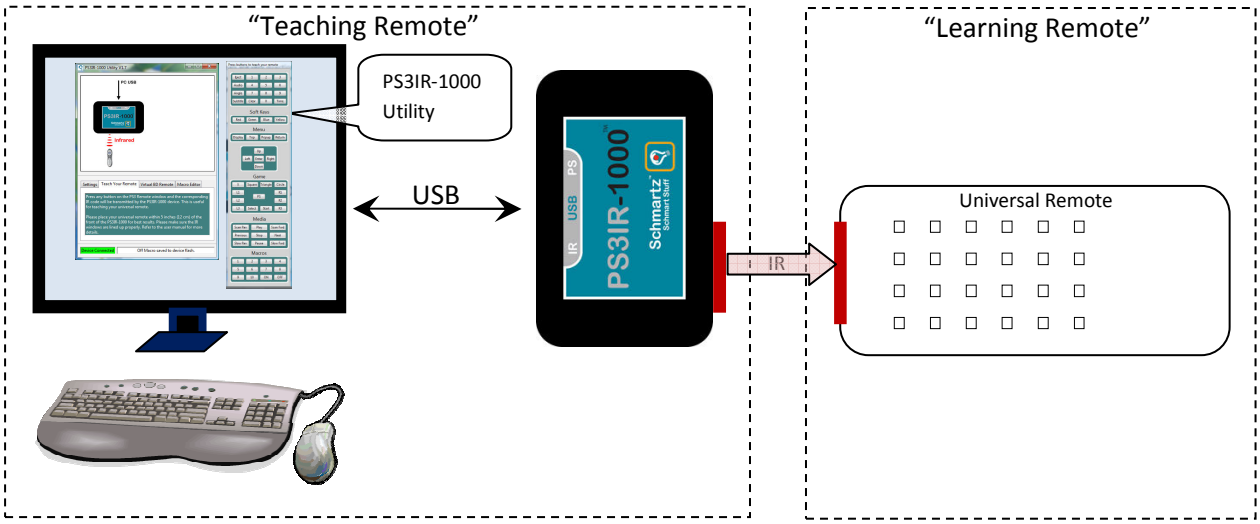
IR External, PS Auto



IR External, PS Enabled

Teach Your Remote

To train your universal remote, click on the "Teach Your Remote" tab in the Utility tool main window. When you click on this tab an image will appear at the top of the Utility window depicting the training activity. An image of a PS3 Remote Control will appear. This will be your "training remote". Point the PS3IR-1000 at your universal remote as the diagram suggests. For best results, the PS3IR-1000 should be within four inches (10 cm) of your universal remote. Also, it is very important that the IR windows are aligned properly. In some cases, this requires raising the PS3IR-1000 to same level as the remote IR window. This is because at close range the IR signals are very directional. The PS3IR-1000's internal IR emitter is located under the "S" in "Schmartz" and pointed directly towards the front panel, as shown in the diagram below. The "learning remote" refers to your universal remote as illustrated in the following diagram.



Use the following procedure to train your universal remote with PS3 commands:

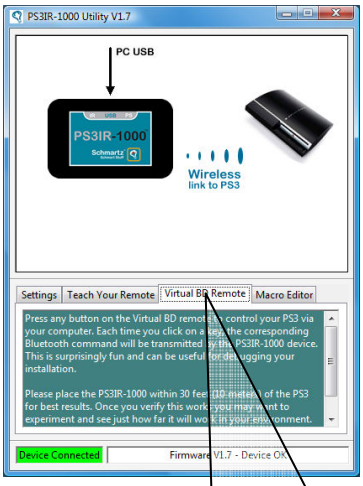
- Refer to the documentation for your universal remote to determine the procedure to train your universal remote.
- When the documentation refers to the "Teaching Remote", use the appropriate buttons in the PS3 Remote window.
- Repeat these steps until you have trained your universal remote with the necessary PS3 commands.

Virtual BD Remote

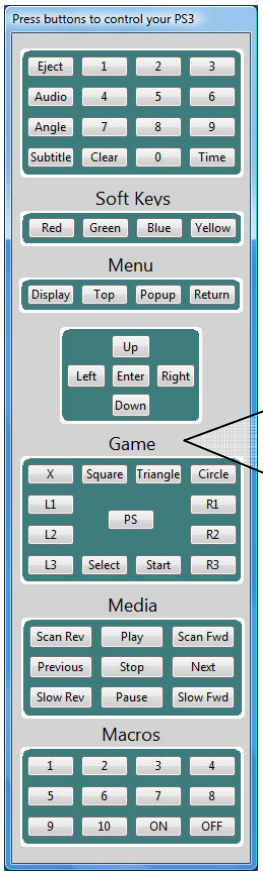
To control your PS3 from your computer, click on the Virtual BD Remote tab in the PS3IR-1000 Utility. An image of a PS3 Remote Control will appear on your screen. If you click on any button in the PS3 Remote Control window, a wireless command will be issued to your PS3.

You may control any function of the PS3 that is on the remote control. This feature has several interesting uses:

- Verify that the PS3IR-1000 is actually paired to your PS3 and is issuing correct wireless commands.
- Validate that a series of commands performs a function you are interested in before writing those commands into a macro.
- Control your PS3 for your enjoyment while at your computer.



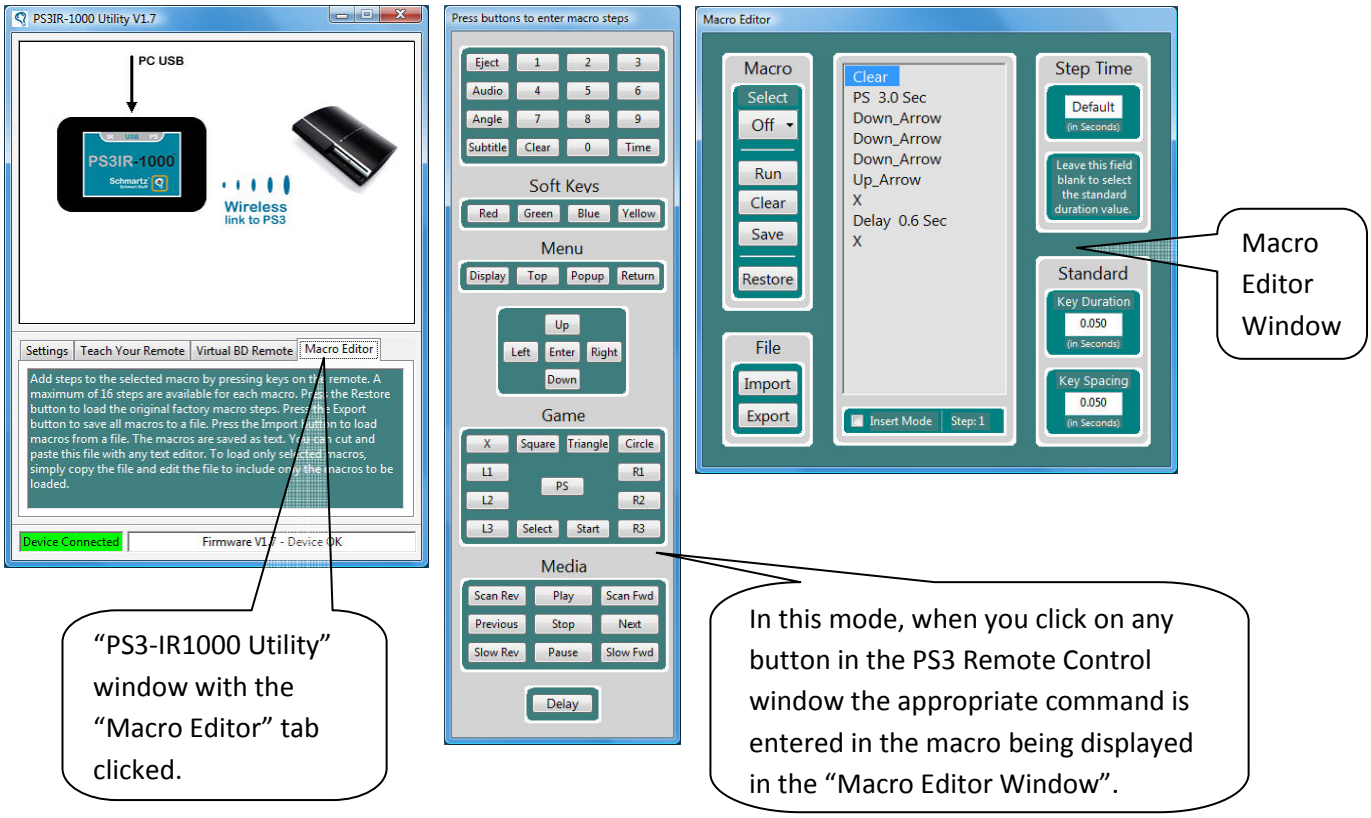
"PS3IR-1000 Utility" window with the "Virtual BD Remote" tab clicked.



In this mode, when you click on any button in the PS3 Remote Control window, the PS3IR-1000 will issue the appropriate wireless command to the PS3. You can use this feature to debug macros or access the entertainment value of your PS3 while sitting at your computer. Enjoy and let your imagination be your guide. ☺

Edit Macros

The next image shows the Macro Editor tab being selected.



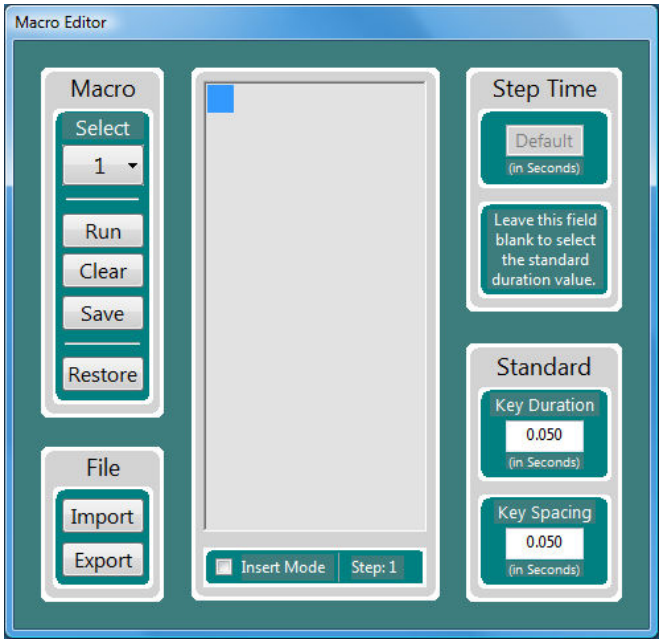
User Macros

User macros are a series of commands that can be defined once and then used over and over to automate frequently used sequences of commands such as launching your favorite game, listening to music, or displaying a slideshow.

To begin the process of creating a macro using the Utility tool, first think about what you want the PS3 to do and how you would accomplish the task using a remote control. You may consider jotting the steps on a piece of paper and testing your steps using the PS3 and a remote control. You may want to consider using the Virtual BD Remote feature of the utility to test your macro strategy. After planning your macros, you are ready to start creating them with the Utility tool.

The Macro Window

Before starting to record a macro, let's examine the Macro Editor window.



There are five sections in the Macro Editor window:

- Macro
- File
- Macro Text (center section)
- Step Time
- Standard

Macro

In this section of the Macro Window you have:

- Select – this is a drop down list that allows you to select which of the 12 macros you want to work with. The macros are numbered 1 through 10, On and Off. Macro 11 is the PS3IR-1000 Discrete On command; macro 12 is the Discrete Off command. Both On and Off commands are editable if you have any additional requirements.
- Run – this button will cause the current macro to be saved and executed directly to the PS3 (assuming your PS3IR-1000 is registered to a PS3 that is powered up and within range).
- Clear – this button will cause the currently displayed macro to be erased. The cursor is set at line 1.
- Save – this button will cause the currently displayed macro to be saved to the PS3IR-1000.

- Restore – this button will cause the currently displayed macro to be reset to factory settings. In the case of macros 1 thru 10 this button clears the macro.

File

In this section of the Macro Window you have:

- Import – The Import button allows you to select a macro file to load into your PS3IR-1000. All macros that are defined in the file will replace whatever is currently in your device. Any macro that is NOT in the import file will not be disturbed.
- Export – The Export button allows you to create a macro file that contains all the macros currently defined in your PS3IR-1000. If a macro is empty in your device, the export file will contain that information (the macro is defined as a single blank line).

Macro Text (center section)

The Macro Text window (center of the Macro Editor Window) contains enough space for 16 commands. When you click on a button on the virtual remote, text is inserted at the cursor in the Macro Text window. The text is very descriptive and represents the command button you pushed. For example the Left arrow is recorded as "Left_Arrow", Popup is recorded as "Popup", etc. The resulting macro is English words that represent a list of commands resulting from pressing buttons on the virtual remote. In addition to the 51 PS3 commands represented on the remote control, there is a button called "Delay". This button has no effect on the PS3 at all but it does serve to introduce a time delay in the execution of the macro. Using "Step Time" you can increase the delay up to the maximum step time of 20 seconds.

At the bottom of the Macro Text section is a check box "Insert Mode". You can click on the check box with the mouse and a blank line is opened above the current cursor position. Alternatively you can press the insert key on the keyboard to toggle insert mode on or off. When insert mode is turned off, the blank line is removed.

You can insert commands anyplace in a macro. If your insert causes the macro to exceed 16 commands, commands are dropped off the end of the macro. If you insert the 16th command – a command may appear to be dropped off the end of the macro but when you turn insert mode off, the 16th line will still be at the end of the macro.

Step Time

When you press a real key on a real remote control, you hold the key for some small amount of time. When you are using a macro command you can control how long the key is held down. The standard key duration is 50 milliseconds – approximately how long you press a real button. With a real device, you can press and hold a key (for example, you would press and hold the PS key to make the PS3 interrupt what ever else it was doing). You can press and hold any key in a macro by using the step time feature. After you have built your macro, go back to the commands that you wish to press and hold. Move the cursor to the Step Time window using the mouse, right arrow, or tab key to move the cursor between the macro text window to the Step Time field. Once you are in the Step Time field you can enter a time in seconds.

Alternatively you can increment/decrement the field by .1 seconds using the + or – keys. The valid range of step time is a minimum of .1 seconds up to a maximum of 20 seconds.

Standard

In this section of the Macro Window you have:

- Duration – this field controls the standard duration of all macro keys in all macros. This is how long the key is held down. This field has a range of 50 milliseconds to 20 seconds. When you modify this field, you affect all macros in the device simultaneously.
- Key Spacing – this field controls how much time elapses between key clicks. Think of this as "how fast" the macro will execute. This field has a range of 50 milliseconds to 20 seconds. When you modify this field, you affect all macros in the device simultaneously.

Creating Macros

Now that you know what all the buttons and fields are for, you are ready to start entering your macros.

Assuming you have planned your macros, click on the Macro Editor tab. For each user macro 1 through 10, select the appropriate macro. For each macro, click on the series of command keys using the virtual remote. Each command key pressed will enter text in the center macro window representing the command key pressed. Repeat this process until the entire macro is recorded.

After the basic structure of the macro is entered, consider if any particular command requires that the key be held down. Some examples where it may be necessary to hold a key down might be:

- Hold an arrow key to use typo-matic feature to move to the end of a menu
- Hold the PS key to interrupt the PS3 from another activity
- Delay to allow the PS3 to load a game or some other relatively long process

Position the cursor on that macro step and tab or arrow to the Step Time field and set the step time. Remember that the step time is in seconds.

After you have entered a macro you can save the macro by clicking on the "Save" button. You can test your macro by clicking the "Run" button (assuming the PS3 is in useful proximity to your computer).

When you have completed all your macros, you may want to save them to your computer by using the Export button. When you click Export, the system brings up a "save as" dialog allowing you to navigate to what ever file folder you want to use for your macros. The system nominates the file name "PS3IR_Macros" and will allow you to revise the file name to any file naming convention you wish. Keep the file type ".txt".

About the Macro File

The format of the Import/Export file is simple text. The file type is ".txt". You may edit this file with any text editor such as Microsoft Notepad or Microsoft Wordpad. The macros are stored as standard text and look exactly like the code displayed in the macro text window. The first 8 lines of the macro file are heading lines that identify what firmware created the file initially. Leave the first 8 lines of the file unmodified.

Below is a sample of an Export file containing the factory default macros "On" and "Off":

```
@V1.7
// PS3IR-1000 Macro Export Format V1.7
// Macro sections may be cut and pasted in any order.
// See documentation for valid step names.
// Invalid step names are skipped
// For all steps except Delay, the time value is optional.
// The standard time value is used by default.
// All times are in seconds in the form "99.9 Sec".
------------------------------------------------------------
Macro 01
------------------------------------------------------------

------------------------------------------------------------
Macro 02
------------------------------------------------------------

------------------------------------------------------------
Macro 03
------------------------------------------------------------

------------------------------------------------------------
Macro 04
------------------------------------------------------------

------------------------------------------------------------
Macro 05
------------------------------------------------------------

------------------------------------------------------------
Macro 06
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------------------------------------------------------------
Macro 07
------------------------------------------------------------

------------------------------------------------------------
Macro 08
------------------------------------------------------------

------------------------------------------------------------
Macro 09
------------------------------------------------------------

------------------------------------------------------------
Macro 10
------------------------------------------------------------

------------------------------------------------------------
Macro On
------------------------------------------------------------
Clear

------------------------------------------------------------
Macro Off
------------------------------------------------------------
```

```
Clear
PS  3.0 Sec
Down_Arrow
Down_Arrow
Down_Arrow
Up_Arrow
X
Delay  0.6 Sec
X
```

The valid macro names are “Macro 01” through “Macro 10”, “Macro On” and “Macro Off”. It is valid to have a macro file containing the first 8 header lines and as little as 1 macro. Macros 01 through 10 have to have the pair of dashed lines with the macro name spelled exactly as displayed above. You may add comments to each line after the command or add lines that are just comments. The PS3IR-1000 will only interpret the beginning of a line looking for one of the valid 51 commands or the word “Delay”. Any other text is ignored (so you may add any text you wish as comments).

When you import a commented macro file, just the PS3IR-1000 commands are entered into the device.

NOTE: Older macro export files from earlier PS3IR-1000 versions have no meaning to Version 1.7. Any previous macros you may have will have to be re-written from scratch.

Using Macros

The PS3IR-1000 understands IR commands for Macro keys 1 through 12. Your universal remote will have to be taught these keys mapped to locations of your choice in your particular universal remote before you can issue your macro command via your universal remote. You may use the “Teach Your Remote” feature to teach you universal remote the Macro keys. Once your remote understands the macro keys, you may use your macros by clicking the appropriate button on your universal remote.

You have to point your universal remote at the PS3IR-1000 while pressing the macro key but you do not need to keep pointing for the macro to execute – the PS3IR-1000 takes care of all that.

Troubleshooting Guide

PS3IR-1000 is not working at all.

Diagnose general problems systematically:

1) **Is the PS3IR-1000 powered up properly?** Look at the status light (inside the Schmartz logo on the top label).

   If the status light is lit (not flashing), go to step 2.

   If status light is flashing rapidly, the firmware has detected an internal error and the firmware must be updated. Refer to the "Firmware Updates" section for directions to attach your PS3IR-1000 to your computer and execute the Utility tool.

   If the status light is not on, plug the USB cable into any powered USB port. Consider using:
   - Satellite receiver
   - DVR/TIVO
   - Nearby computer
   - Other component with a USB port
   - USB charger

   Make sure the selected component is plugged into a working power outlet. **Do not use a PS3 USB port for power** as those ports are not powered when the PS3 is in standby mode. If these steps fail, replace the USB cable.

   If the status light on the device will not light up, contact Schmartz for help.

2) **Is the PS3IR-1000 receiving and processing IR commands?** If you are using Internal IR mode, set your remote control to address the PS3 and click buttons on the remote to send IR commands. If the status light flashes briefly when you click a button on the remote, then the unit is receiving and processing IR commands. If you are using IR external mode, the status light should flash when IR commands are delivered through the IR Repeater. If the status light is flashing when IR commands are delivered to the PS3IR-1000 go to step 3.

   If the status light is not flashing, consider:
   - Is your remote control properly programmed with the proper IR codes? Be sure to consider the Code Set configuration.
   - Is the remote control working (i.e., will it operate other devices properly)?
   - Is the remote control set to address the PS3IR-1000?
   - Is there an unobstructed line of sight between the remote control and the PS3IR-1000?
   - Is the PS3IR-1000 set up for External IR? The factory default setting is for "Auto" IR processing. Run the PS3IR-1000 Utility to check the IR Mode setting.

   If you are unable to get the status light to flash (indicating IR command processing), contact Schmartz for help.

3) **Status light flashes but PS3 not responding could be caused by:**
   - **Is power sensing being used?** If power sensing is enabled but the power sensing cable is not connected properly, the PS3IR-1000 will believe the PS3 is turned off and thus will not execute commands and the PS3 will appear to be unresponsive. Connect your PS3IR-1000 to your computer and run the Utility to examine the power sensing configuration. If power sensing is enabled, the power sensing cable MUST be connected.
   - **Is the PS3IR-1000 properly paired with your PS3?** Assuming the status light flashes in response to IR commands and the PS3 is not accepting commands from the PS3IR-1000, you may have to re-do the pairing procedure. (Refer to the installation instructions). After pairing, if the status light flashes and the PS3 is not responding, connect your PS3IR-1000 to your computer and run the Utility to operate the PS3 from your computer (See "PC Remote Control" section). If all this fails please, contact Schmartz for additional help.

PS3 will not power down

Problem: I issue a command from the PS3IR-1000 to power off the PS3 but the PS3 does not shut off.

Solution:

- If you have enabled power sensing in the PS3IR-1000 but have not connected the power sensing cable, the PS3IR-1000 will never power off the PS3. To correct this, connect the power sensing cable or disable the power sensing feature.
- Verify the Discrete Off Macro is correct. Try restoring this macro to factory settings by using the Utility tool.

Remote operates inconsistently, range not satisfactory

Problem: My remote works sometimes or I have to move closer to the PS3IR-1000.

Solution: Most IR remote controls should operate correctly up to 25 feet. Put new batteries in the remote control to make sure they are fresh. Make sure there is an unobstructed view between the remote and the PS3IR-1000. Avoid bright sunlight or very bright incandescent light near the PS3IR-1000. Plasma TV screens may also interfere with operation of IR remote controls.

PS3 powers up unexpectedly

Problem: The PS3 powers up unexpectedly. Usually when everything shuts down, the PS3 comes on.

Solution: The PS3IR-1000 normally keeps track of the PS3 power status internally. If you have done anything manually to the PS3 that affects power that the PS3IR-1000 is unaware of (powered off PS3 using a game controller, use the manual power switch, or insert a DVD), the PS3IR-1000 may be out of sync regarding power status. This situation can be remedied by powering off and powering on the PS3IR-1000.

Alternately, you can use the optional power sensing feature of the PS3IR-1000 and connect a power sensing cable between the PS3IR-1000 and the PS3. With the power sensing feature enabled and properly connected, unexpected power up is eliminated.

Power sensing not working properly

Problem: I am using power sensing but PS3 not powering up/down correctly.

Solution: Proper operation of PS3IR-1000 power sensing depends on two things:

- Connecting a power sensing cable between the PS3 (any USB port and the PS3IR-1000 PS port). Verify that this cable is connected properly.
- Verify that power sensing is enabled (See "Configure Power Sensing" section.)

Not responding to Remote Control

Problem: The PS3IR-1000 is not responding to my remote control (status light not flashing as expected).

Solution: The PS3IR-1000 can be configured to accept 4 different code sets. The setup of your remote control must agree with the Code Set configuration in the PS3IR-1000. Perform the following checks:

- Connect the PS3IR-1000 to your PC and start up the Utility program. Go to the settings tab and note the Code Set configuration selected (A, B, C or D).

- Verify that your universal remote control is set up with the matching Code Set (A, B, C or D). You may have to refer to the PRONTO CODE Spreadsheets on Schmartz.com for the full Code Set definitions to complete this step.

Regulatory Compliance

The PS3IR-1000 complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Schmartz Inc. could void the authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.