

APPENDIX I  
: USER'S MANUAL

# Operating Your System With The KP-900i Wireless Keypad/Remote



**COMPLETE  
CONTROL**<sup>™</sup>

**Universal Remote Control**<sup>®</sup>

*This remote control was  
Custom Programmed for you by:*

.....  
*For questions about your Custom Programming call:*

.....  
*Custom Programming of a complex home theater and/or a multi-room system is one of the most challenging tasks within an audio/video installation. It involves an intimate knowledge of how the components interact and exact details on the proper sequences of control.*

*Only a Complete Control dealer has the requisite experience and training to quickly and effectively customize a remote control for true automated operation.*

*Congratulations on your choice!*

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*Front Cover Photo courtesy of Stone Glidden, King of Prussia and Doylestown, PA*

[www.stoneglidden.com](http://www.stoneglidden.com)

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## Congratulations!

You've purchased a unique wireless control. The KP-900i can be used as both a wall mounted keypad and as a hand-held remote control. The KP-900i achieves a magnificent combination of power and flexibility, simplifying and automating operation of even the most complex home theater system.

### Wall Mounted Keypad and Hand-Held Remote Control

Once the wall bracket is securely installed on the wall, simply place the KP-900i into the bracket. Magnets snap the KP-900i into place. To use as a hand-held remote control, grasp the KP-900i from the top edge and pull it away from the bracket.

### One Touch Multi-Colored Backlighting

Press any button to backlight the screen and the hard buttons.

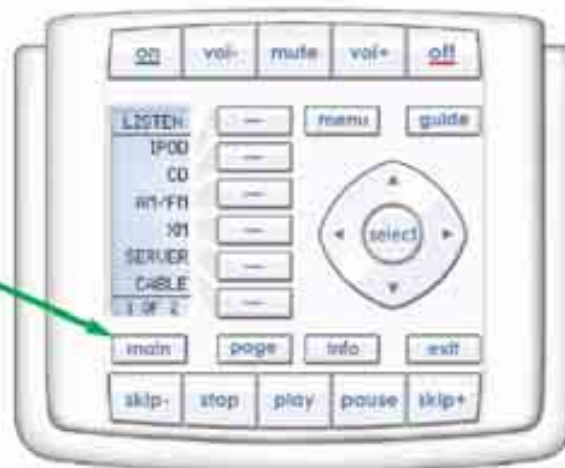
### Integrated Sound Signaling

The KP-900i incorporates a small speaker for beeps. Anytime you press a button, the KP-900i signals that it has understood your command with a beep sound.

## Custom Labeled Buttons

The KP-900i is equipped with a bright, easy to read LCD screen which labels the six buttons to the right of the screen. These button labels change based on what you are watching or listening to. Thus, if you have selected Watching TV, you will see a list of buttons that are useful to that activity, while if you select DVD, the buttons will control the DVD.

Pressing the MAIN button displays the Main Menu pages of the KP-900i. When you select one of the activities listed, the entire functionality of all the buttons changes to operate the selected device.



## Optional RF “No Rules” Operation

In combination with a Complete Control RF Base Station, the KP-900i can control your system without being in line-of-sight of the equipment. On the wall or off, that means that you never need to point the KP-900i.

The MSC-400, the MRF-350i and the MRF-260i RF base stations are compatible with the KP-900i. All incorporate RF addressing. RF addressing gives you the ability to control equipment locations throughout your home, even if they are concealed in other rooms or are behind closed doors.

1. The KP-900i sends radio waves in every direction, so you don't have to point the remote any more!



2. The RFX-250i RF Sensor can be freely positioned for optimal reception.



3. The base station routes IR commands to the correct IR Flasher.



4. Self-adhesive “Flashers” affix to the Infrared sensors on the front panels of your components. The Flashers relay commands to components. The flashers plug in to the base station's rear flasher line outputs via their 10 foot cables. Uniquely, URC base stations can also connect to rear panel IR Inputs via their adjustable IR Line Outputs.

## Relocating the Wall Bracket

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A professional installer has the expertise and materials to mount the KP-900i to any kind of wall material. The KP-900i includes a wall bracket, four screws and four plastic caps to conceal the screwheads. The included screws may not be appropriate for your walls.

Before making a hole in your wall, gather the family and evaluate the best height. Like a thermostat, the KP-900i should be at comfortable eye level for most of the family, typically between 54" to 62" from the floor to the top of the bracket (60" is typical).

Use a bubble level and a pencil to draw a line on the wall, then hold the bracket in place. Screw in the four screws and cover the screw heads with the included self adhesive caps.

Metal discs in the bracket and magnets in the keypad keep the KP-900i securely in place, yet make it easy to remove when you need a hand-held remote control.

## Installing Batteries

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There are two battery compartments on the rear of the KP-900i. Each compartment holds two AAA batteries for a total of four AAA batteries.

Open each battery cover by pressing the release and pulling back the cover on the back of the control. Remove the cover.

Observe the + and - polarity indicators on the batteries.

Place a battery into the compartment with the positive (+) terminal facing the bottom of the KP-900i. Slide the battery up into the top position and insert the second battery into place.

Now, replace the battery cover by inserting the hinged end in first, then snapping the cover back into place.

Repeat the process with the second battery compartment.

## Programming the KP-900i

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The KP-900i is programmed via a Windows PC equipped with a USB port (programming cable included), using our proprietary software, KP-900i Editor and the included programming cable. You can download KP-900i Editor from our website:

[www.universalremote.com](http://www.universalremote.com)

However, to fully automate an audio/video system the programmer must have a detailed knowledge of each component, you the user (and your preferences) and how the system is connected and operated. We highly recommend that you use a professional audio/video installer to program your KP-900i so you will be able to enjoy all the benefits of the KP-900i as well as one touch operation via macros.



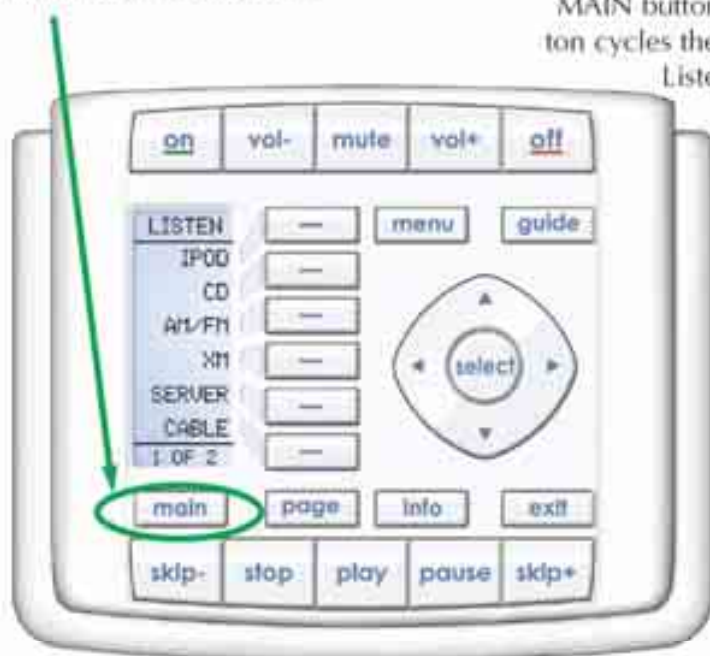
## Selecting a New "Activity"

The KP-900i's MAIN button displays the activities you can control with your KP-900i. When you want to listen to the radio or to a CD, touch the MAIN button and select what you would like to listen to.

Your installer will have programmed the button you pressed to totally configure your system to watch or listen to whatever you selected. Now the screen will change, and all of the LCD buttons will be reconfigured to give you full control of your system while watching or listening to your selection!

When you press the MAIN button, you can see the most frequently used activities in your system.

Optionally, your installer may have programmed two groups of activities (i.e Watch and Listen). To access either group, simply touch the MAIN button again. The MAIN button cycles the display from Watch to Listen, then back to Watch,



### PAGE DISPLAY

At the bottom of the LCD screen, the page display informs you if there are other pages of buttons available.



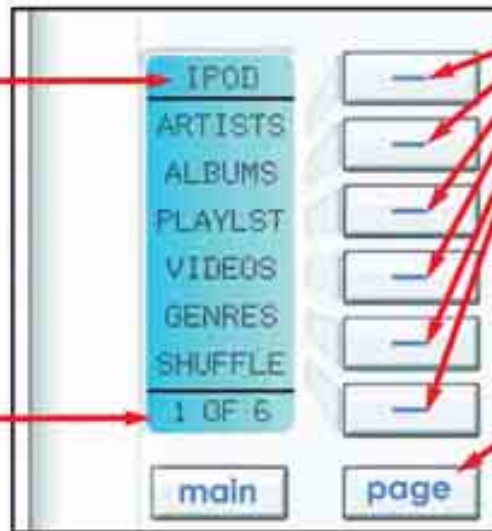
Press the PAGE button to see any other available choices.

## Using the KP-900i to Control an “Activity”

Once you’ve selected a new activity, the KP-900i displays the title of the activity at the top of the screen. Below the title, the LCD displays the customized names of any special features you need for the activity. All the hard buttons of the KP-900i have now changed to functions optimized for this activity.

The Title displays what activity you can control.

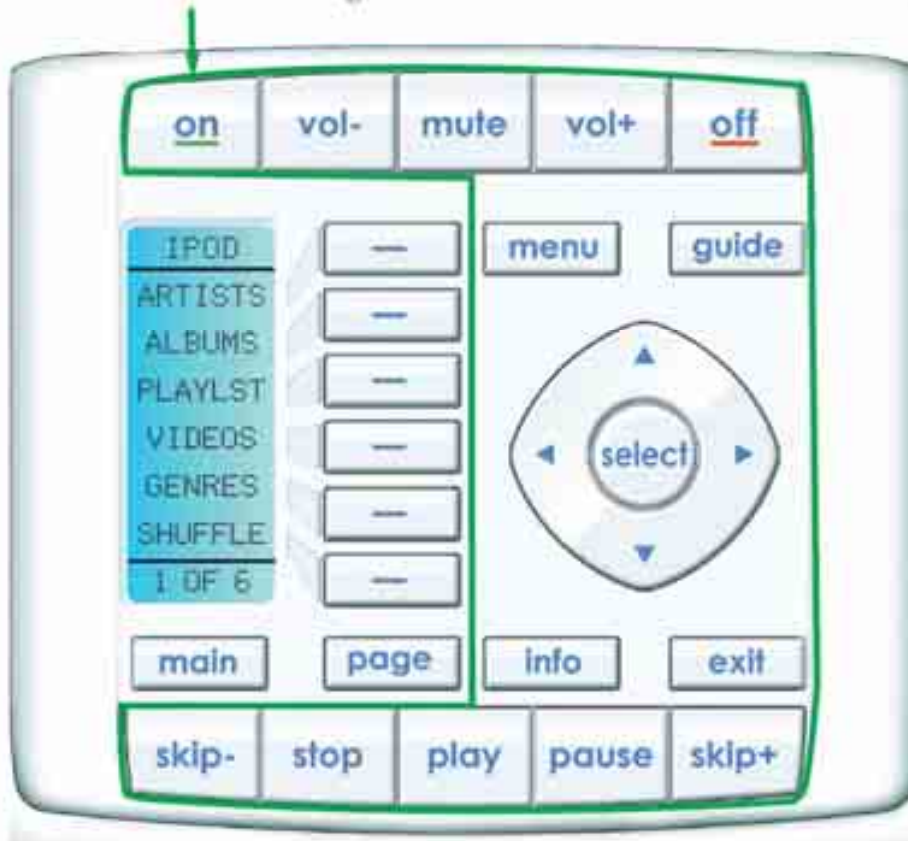
Each activity can have many pages of LCD labeled buttons. At the bottom of the LCD the page number is displayed.



The LCD button labels describe special features for this activity.

Press the PAGE button to use the other pages of LCD labeled buttons.

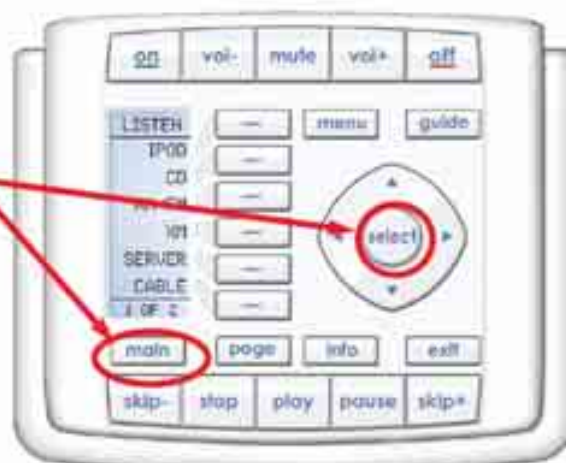
All of the KP-900i’s hard buttons change their function and now control the selected activity.



## Displaying the Setup Screen

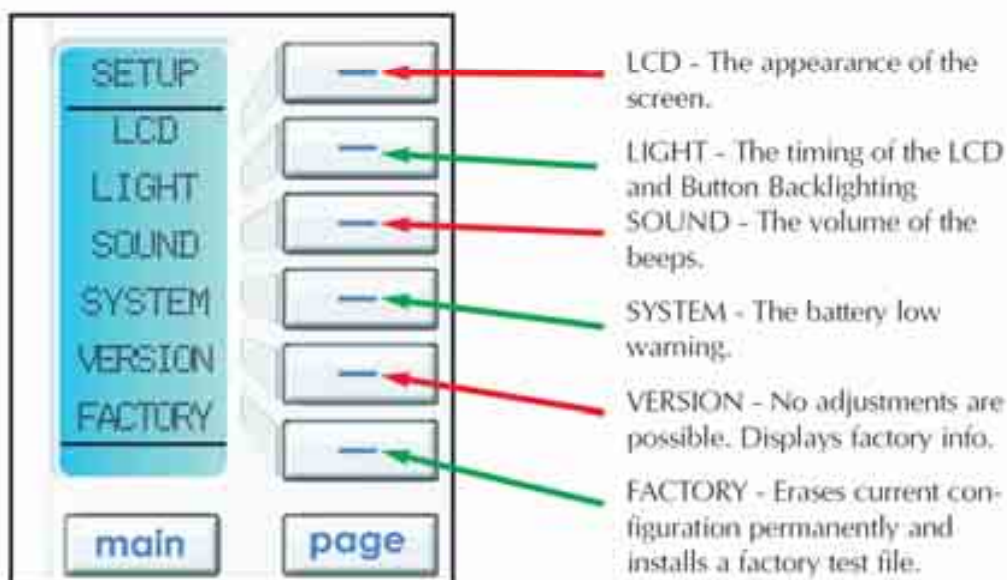
You can adjust the settings of the KP-900i whenever you like by pressing and holding both the MAIN and the SELECT buttons at the same time for three seconds. When you do, the screen will change to the SETUP screen. If you do not press any button on the SETUP screen within 30 seconds, the KP-900i will time out and automatically return to normal operation. You can return to normal operation before that by pressing the MAIN button.

At the same time, press and hold both the MAIN button and the SELECT button. When the SETUP screen appears, you can release the two buttons.



## Selecting from the Setup Screen

Simply touch the button for the setting you'd like to adjust:



## Setting the LCD

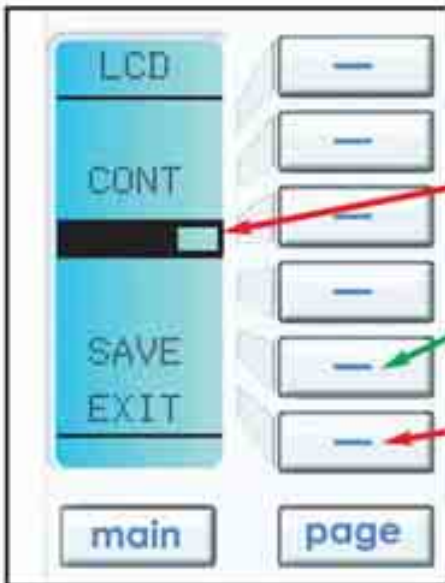
With these settings, you can set the KP-900i to constantly display the LCD when not in use, or show a blank screen when not in use. Additionally, you can control the contrast of the screen and the color of the backlighting.

The diagram illustrates the process of setting the LCD on the KP-900i remote control through three sequential menu screens:

- Panel 1: LCD On/Off Menu**
  - Options: LCD, LCD ON, CONT, COLOR, EXIT
  - Buttons: Five directional buttons (Up, Down, Left, Right, Select) with dashes.
  - Instructions:
    - Green arrow: To activate the LCD On/Off setting, press this button. See below.
    - Red arrow: To activate the CONTRAST setting, press this button. See the next page.
    - Green arrow: To activate the COLOR setting, press this button. See the next page.
    - Red arrow: To exit without saving any changes you have made, press EXIT.
- Panel 2: LCD Timer Setting Menu**
  - Options: LCD, OFF, TIMER, 10S, SAVE, EXIT
  - Buttons: Five directional buttons (Up, Down, Left, Right, Select) with dashes.
  - Instructions:
    - Red arrow: If you set the LCD to OFF, the timer settings will appear. The LCD will go blank after waiting the interval you set here by adjusting the LEFT and RIGHT arrow keys.
    - Green arrow: The timer can be set to turn off the LCD between 10 seconds and 20 minutes.
    - Red arrow: The Timer Interval is displayed here.
    - Green arrow: To save any changes you have made, press SAVE.
    - Red arrow: To exit without saving any changes you have made, press EXIT.
- Panel 3: Physical Remote Control**
  - Buttons: mute, vol+, off, menu, guide
  - Directional Pad: Up, Down, Left, Right, Select
  - Instructions:
    - Green arrows: To change the timer interval, press the LEFT or RIGHT arrow keys.

## Setting LCD Contrast

You can adjust the contrast of the LCD screen using the LEFT and RIGHT arrow keys once the LCD contrast screen has been selected (shown on the previous page).



The current CONTRAST is displayed here via a bar graph.

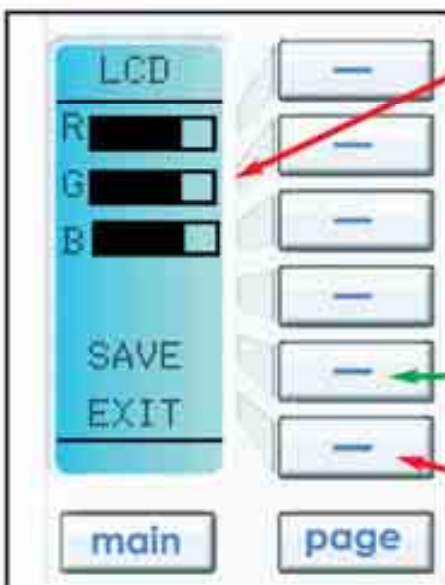
To save any changes you have made, press SAVE.

To exit without saving any changes you have made, press EXIT.

Adjust the CONTRAST setting with the LEFT and RIGHT keys as shown in the previous pages.

## Setting LCD Color

Typically, the LCD color settings are controlled by the PC Editor. However, by selecting USER instead of Software, then selecting the EDIT option, you can adjust the color of the backlighting via this Setup page:



The current Red, Green and Blue settings are displayed here as a bar graph. Simply, select the color you'd like to adjust by pressing the corresponding button, then use the LEFT & RIGHT arrow keys as shown on the previous pages to adjust the level.

To SAVE any changes you have made, press SAVE.

To exit without saving any changes you have made, press EXIT.

## Light Settings

You can adjust the backlighting of the remote in two additional ways:

1. You can turn on/off the LCD and the hard button backlighting.
2. You can select the amount of time the lighting stays on after the last button press from a range of values between 10 seconds and 90 seconds.



Change whether the backlighting is on or off by pressing this button.

If you want the backlighting always OFF, set it to OFF.

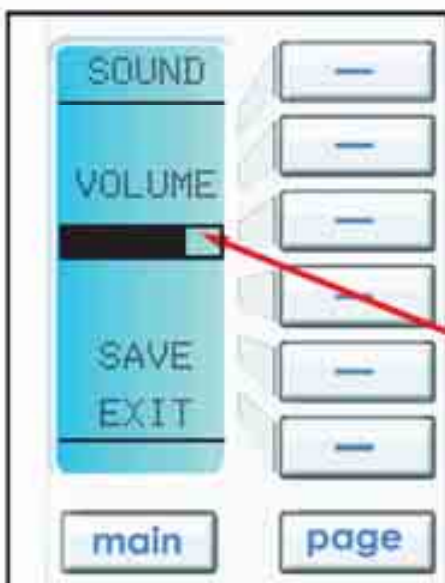
If you would like the backlighting on, select ON.

The current timer setting is displayed here in seconds.

Adjust the backlighting timer setting with the LEFT and RIGHT keys as shown in the previous pages.

## Sound Volume

Your KP-900i beeps whenever a button is pressed. However, you can adjust the volume of the beep to one of four levels as shown here:



OFF

SLIGHT BEEP

MODERATE BEEP

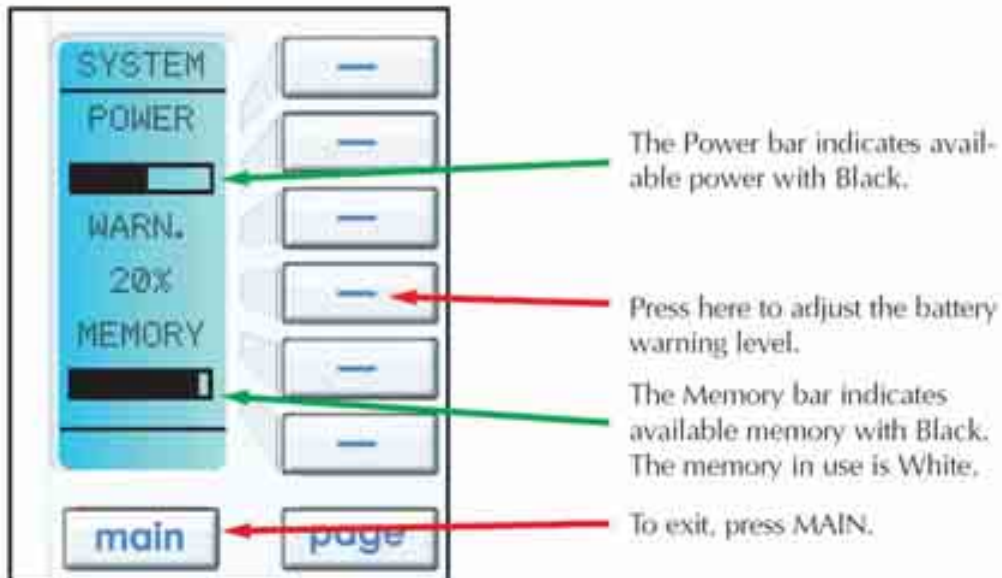
LOUDEST BEEP

The current Beep volume is displayed here as a "bar".

Adjust the volume of the beep by tapping the LEFT and RIGHT arrow keys as shown in the previous pages.

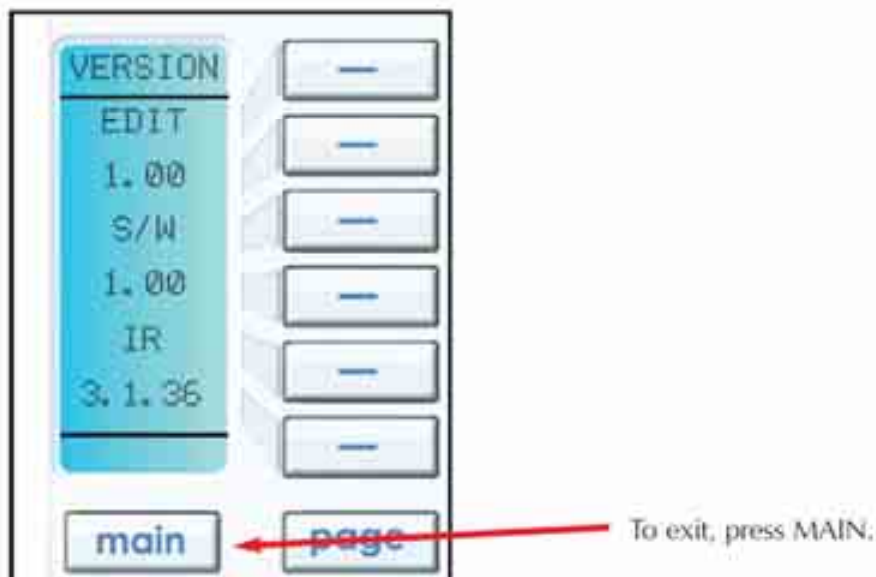
## System Settings

You can set your KP-900i to display the Low Battery warning at a power level between 0% and 20% (in 5% increments).



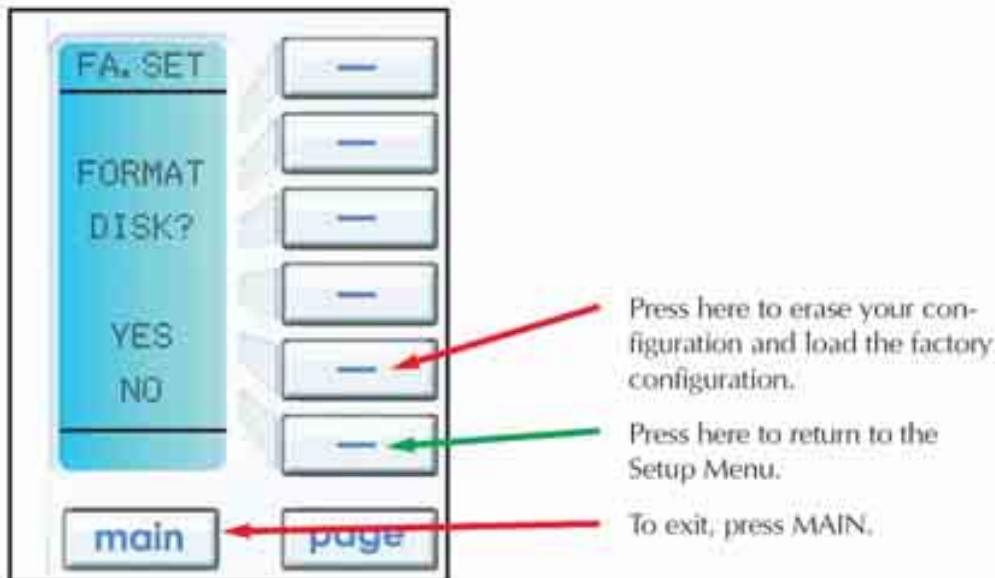
## Version Information Displays

Should you be curious, the Version indicates what firmware and software versions were used to program your KP-900i.



## Factory Default

Warning! This should only be done in preparation for a new PC Editor session, your configuration will be completely erased. It will be necessary to reinstall the original configuration file using a windows PC equipped with KP-900i Editor and a copy of the original file.



## USA Limited Warranty Statement

Your Universal Remote Control, when delivered to you in new condition, is warranted against defects in materials or workmanship as follows: UNIVERSAL REMOTE CONTROL, INC. warrants this product against defects in material or workmanship for a period of one (1) year and as set forth below. Universal Remote Control will, at its sole option, repair the product using new or comparable rebuilt parts, or exchange the product for a comparable new or rebuilt product. In the event of a defect, these are your exclusive remedies.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty.

To obtain warranty service, you must deliver the product, freight prepaid, in its original packaging or packaging affording adequate protection to Universal Remote Control at the address provided in the Owner's Manual. It is your responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into your unit. It is likely that such



data, software, or other materials will be lost during service and Universal Remote Control will not be responsible for any such damage or loss. A dated purchase receipt, Bill of Sale, Installation Contract or other verifiable Proof of Purchase is required. For product support and other important information visit Universal Remote Control's website:

<http://www.UniversalRemote.com>

or call Customer Service at (914) 835-4484.

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary consumer use. It does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, third-party installation, misuse, limitations of technology, or modification of or to any part of the Universal Remote Control product. This Limited Warranty does not cover Universal Remote Control products sold as USED, AS IS, REFURBISHED, so-called "B STOCK" or consumables (such as batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the product. This Limited Warranty is valid only in the United States of America. This Limited Warranty specifically excludes products sold by unauthorized resellers.

#### LIMITATION OF REMEDIES

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EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THERE IS NO OTHER WARRANTY EXPRESSED OR IMPLIED. UNIVERSAL REMOTE CONTROL WILL NOT BE HELD RESPONSIBLE FOR STATEMENTS MADE BY OTHERS CONCERNING THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT. Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state or jurisdiction to jurisdiction.

REV070208

## Specifications

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Memory - 4 Megabits of Flash Memory (for User Configuration)

Devices and Pages: Flexible, typically supports up to 400 completely filled pages (standard IR commands). Pages can be distributed into up to 255 devices.

Learning Capability - Standard frequencies (15kHz to 460kHz)

Macro Capability - Up to 255 steps each, however nesting is allowed, thus real macro length is unlimited.

Backlighting - Blue for all buttons, 256 color backlighting for the LCD

IR Range (line of sight via infrared): 30-50 feet, depending on the environment

RF Range (radio frequency): 50 to 100 feet, depending upon the environment

RF Frequency: 433MHz

Weight: 14 ounces (with batteries)

Size (KP-900i only): 4-11/16" H x 5-7/16" W x 9/16" D

Size (KP-900i with the wall bracket): 4-5/8" H x 6-1/16" W x 3/4" D

Batteries: 4 AAA batteries

## Contact Us

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Need assistance or have questions?

Our Customer Service Support Center is here to help.

Call (914) 835-4484 to speak with a customer service representative or email us at [techsupport@universalremote.com](mailto:techsupport@universalremote.com)

500 Mamaroneck Avenue, Harrison, NY 10528

Phone: (914) 835-4484 Fax: (914) 835-4532

[www.universalremote.com](http://www.universalremote.com)

## Regulatory Information to the user

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### ■ FCC Compliance statement

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 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.

### ■ Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment.

Such modifications could void the user's authority to operate the equipment.

### ■ CE conformity Notice

Products with "CE" marking comply with the R&TTE Directive 1995/5/EC, EMC Directive 2004/108/EC and issued by the commission of the European Community.

1) R&TTE Directive

- EMC : ETSI EN 301 489-1,3
- RF : ETSI EN 300 220-1,2

2) EMC Directive


- Emission : EN 55022
- Immunity : EN 55024

3) Low Voltage Directive

- Product safety : EN 60950-1

■ Declaration of Conformity

"Hereby, Ohsung Electronics co.Ltd, declares that this KP-900i is in compliance with the Essential requirements and other relevant provisions of Directive 1999/5/EC."

Certification	CE 0197
Type No.(Model No.)	KP-900i
Manufacturer	Ohsung Electronics Co.Ltd
Batch/Serial No.	-
Power Rating	6.0V  0.5A
Frequency band	433.92MHz





 **Universal Remote Control®**

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