

LONGHORN 4000 PRO

Touch Screen Smart Remote Control



User's Manual

040130

Preface

About this manual

This manual is designed to make it easy to use the 4000-PRO Touch Screen Remote Control as easy as possible. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice.

Copyright

© Copyright 2006

This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without the prior written permission of Longhorn Australia.

Trademarks

All trademarks and registered trademarks are the property of their respective owners.

LONGHORN Customer Service & Support Info

URL: www.longhorn.com.au

Table of Contents

Chapter 1 Introducing the 4000-PRO	1
1.1 4000-PRO Features.....	2
1.2 Unpacking the 4000-PRO	2
1.3 Identifying Components.....	3
Chapter 2 Getting Started	4
2.1 Inserting the Batteries.....	4
2.1.1 Battery Indicator.....	4
2.1.2 Battery Tips and Precautions.....	5
2.2 About the Touch Screen.....	6
2.2.1 Turning the Touch Screen On.....	6
2.2.2 Touch Screen Precautions.....	6
2.2.3 Using the Touch Screen Soft Keys.....	7
2.2.4 Accessing Setup.....	7
Chapter 3 Setting Up the 4000-PRO.....	9
3.1 Customizing the LCD Layout.....	9
3.2 Code and Learn Setting Key	11
3.3 Using Pre-programmed Code to Program Devices.....	12
3.4 Using Learning Function to Customize 4000-PRO	15
3.4.1 Before Using Learning Function	15
3.4.2 Learning from Another Remote Control.....	15
3.4.3 Deleting Key Codes and Device Codes.....	18
3.5 Resetting the 4000-PRO to Factory Defaults.....	19
3.6 Macro Function.....	21

3.6.1 Creating a Macro	21
3.6.2 An example to create a Macro	23
3.6.3 Macro Interruption.....	25
3.6.4 Viewing the Macro Key	25
Chapter 4 Miscellaneous Settings.....	26
4.1 Using the Transmission Function.....	26
4.2 Setting the Backlight	28
4.2.1 Setting the Backlight.....	28
4.2.2 Setting Backlight Sensitivity.....	29
4.3 Turning Off the Beep Signal	30
Chapter 5 Controlling Devices	31
5.1 Alternating Between Screens	31
5.2 Controlling Devices	31
Appendix A Functions and Specifications ...	32
Functions	32
Specifications	33
Appendix B Accessories	34
Appendix C Troubleshooting.....	35
Troubleshooting Tables	35

Chapter 1 Introducing the 4000-PRO

Congratulations on your purchase of the 4000-PRO Touch Screen Remote Control. The 4000-PRO is a digital universal remote control that is easy to use, enabling you to control all of your electronic devices equipped with an infrared (IR) remote.

The 4000-PRO uses a user-friendly Touch Screen panel. You can control up to eight devices, including VCRs, DVDs, TVs, and satellite dishes.

The 4000-PRO enables you to quickly configure each device in your household or office by using the innovative “learning eye” feature. In addition, the advanced Macro function enables you to initiate a chain of up to 60 commands with the touch of a single key.

The 4000-PRO, a simple and user-friendly remote, provides you with a complete central control solution.

NOTE:

This manual helps you to learn how to use the advanced features of the 4000-PRO. However, it does not explain how to use the functions of your devices. Please refer to the user’s manuals of your devices for further information.

1.1 4000-PRO Features

- Large touch screen display
- Macro function, each Macro can store 60 commands at most
- Controls up to eight devices including DVDs, TVs, Satellite Receivers, VCRs, and CDs
- Learns the IR codes from your existing remotes to control your devices quickly
- Pre-programmed codes for many remote controls
- User-programmable keys for each device, up to 56 keys in total
- Automatic shutoff after 90 seconds of inactivity

1.2 Unpacking the 4000-PRO

After unpacking the 4000-PRO, please check out the contents to make sure that the following items are included.

1. 4000-PRO
2. User's Manual
3. Pre-programmed Code List

If any of the above items is missing or appears to be damaged, please contact your dealer immediately. Please do not throw the package away in case you need to ship your 4000-PRO.

1.3 Identifying Components

Refer to the following illustration to identify the components of the 4000-PRO.

1. Infrared Eye

Point the infrared eye at the device you want to operate.

2. Light Sensor

Detects ambient light to automatically turn on the backlight.

3. LCD Touch Screen

The LCD panel enables you to configure and operate your devices by touching the screen.

4. Backlight

Automatic blue backlight illuminates in a dim environment.

5. Device keys

Press these keys to display the LCD layouts for the specific devices as below.



6. Learning Eye

Point your original remote control to the learning eye and press the corresponding keys to send out the IR signals; so that the 4000-PRO can learn the IR codes for your devices.

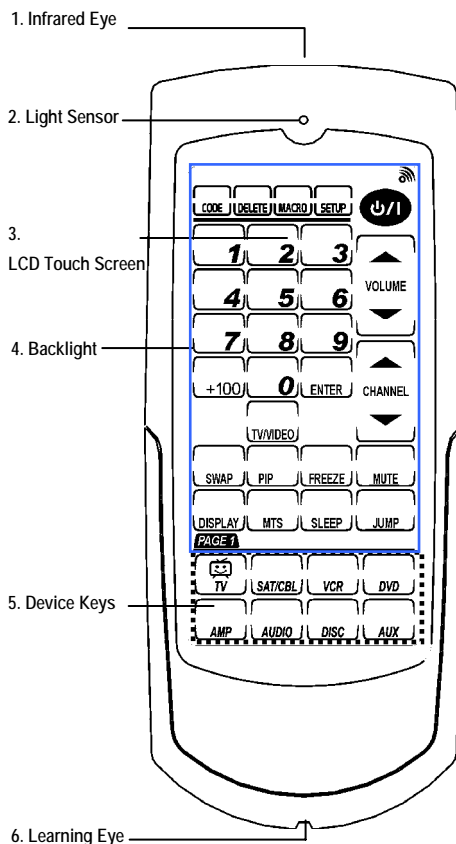


Figure 1: Front View

Chapter 2 Getting Started

This chapter provides the information helping you to use the 4000-PRO quickly.

2.1 Inserting the Batteries

The 4000-PRO operates on three AAA alkaline batteries (not included in the package). Batteries must be inserted before you can operate the 4000-PRO.

1. Lift the battery cover.
2. Insert three AAA batteries according to the polarities inside the battery compartment.
3. Snap the battery cover back.

2.1.1 Battery Indicator




Battery low icon

Figure 2: The Battery Low Icon

When the power of batteries is weak, the “battery low” icon is displayed in the upper right corner.

2.1.2 Battery Tips and Precautions

1. The 4000-PRO will not lose programmed data when batteries are replaced.
2. Please always use fresh batteries. Alkaline batteries are recommended. Do not mix different types of batteries.
3. Ensure that positive (+) and negative (-) polarities of the batteries match the diagram inside the compartment.
4. Do not expose the batteries to excessive heat or flame.
5. Keep batteries out of the reach of children.
6. Weak batteries reduce the effective distance of the unit. Replace batteries immediately when the  icon appears.
7. To reduce the danger of leakage, remove batteries when used longer than two years.

2.2 About the Touch Screen

The Touch Screen changes the number of soft keys according to the device that is selected.

2.2.1 Turning the Touch Screen On

Turn on the 4000-PRO by touching the screen. The 4000-PRO turns itself off after 90 seconds of inactivity.

2.2.2 Touch Screen Precautions

Please review the following information carefully before using the 4000-PRO.

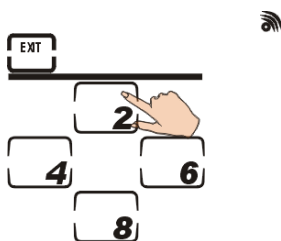
1. Tap the LCD Touch Screen gently.
2. Do not use a pen or any sharp object to tap the screen.
3. The 4000-PRO is not waterproof. Keep the touch screen dry and never immerse it in liquid. Wipe off any spills immediately.
4. Don't expose 4000-PRO to extreme temperatures. Keep it away from heat sources.
5. Avoid dropping the 4000-PRO or putting anything on the touch screen.
6. Clean the LCD touch screen with a soft cloth. If needed, dampen the cloth slightly before cleaning. Never use abrasives or cleaning solutions.

2.2.3 Using the Touch Screen Soft Keys

The Touch Screen Soft Keys enable you to operate the 4000-PRO and your devices. You can use these keys to program codes from your original remotes, to control your devices, and to set up command sequences called Macros. You will hear a beep when you press a key. To turn on or off the beep, please refer to page 30. Besides, the 4000-PRO turns itself off after 90 seconds of inactivity.

2.2.4 Accessing Setup

To setup the 4000-PRO, press a function key for 3 seconds till the confirmation screen appears. The confirmation screen is designed to prevent you from accidentally modifying your remote. Please press the four number keys in any order to start to setup the remote.



The following table provides an overview of major key functions.






Name & Key Icon	Function	Setup Description
Device keys 	<i>Device setting and LCD layout</i>	<p>Key: Enter device setting and arrange the LCD touch screen layout to correspond to your remote control. (P.9)</p> <p>You can also toggle device pages by pressing the key again.</p>
Code Setup key 	<i>Setup device code, manually, automatically or by learning function</i>	<p>Code: Enables you to enter pre-programmed codes. (P.11)</p> <p>Learn: Enables the remote to learn codes from other remote controls directly. (P.15)</p>
Macro key 	<i>Setup Macro</i>	<p>Enables you to set Macro function. (P.27)</p> <p>You can also view the Macro setting by pressing the key.</p>
Delete key 	<i>Delete and reset to default</i>	<p>Key: Erase key codes. Refer to P.18.</p> <p>Bank: Erase device codes. (P.18)</p> <p>Key & Bank: Reset to factory default. (P.19)</p>
System setup key 	<i>Transmission, backlight and beep setup</i>	<p>Backlight: Setup backlight lasting period and sensitivity. (P.28)</p> <p>Code: Transmit all data. (P.26)</p> <p>Beep icon: Turn the beep sound on/off. (P.30)</p> <p>After finishing setting, press the OK key to confirm your decision.</p>

Figure 3: Major Function Keys

The following chapters describe each function in detail.

Chapter 3 Setting Up the 4000-PRO

Before the 4000-PRO can be used to control a device, it needs to be configured to display your existing remote control keys and it must be programmed to send the correct infrared signals.

This chapter guides you through the Touch Screen layout and 4000-PRO setup procedures.

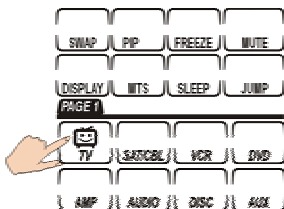
NOTE:

The 4000-PRO includes eight default devices; including TV, satellite TV, VCR, DVD player, hi-fi stereo, radio/cassette player, CD player, and auxiliary.

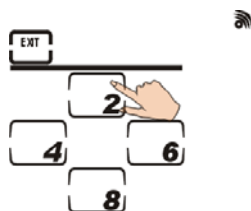
3.1 Customizing the LCD Layout

Layout edit mode enables you to customize the 4000-PRO's LCD layout to match your original remote controls.

1. Press and hold the desired device key for three seconds to enter the confirmation screen.



2. Press each number button (2, 4, 6, 8) in any order until they disappear to enter the set up mode.




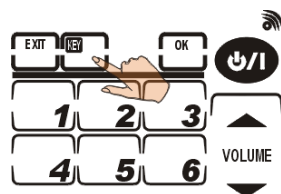
3. Select a key you want to modify. Press that key repeatedly to scroll through the available icons for the key.




NOTE:

You can press  to display all the available icons.

4. Repeat step 3 to modify all desired keys.
5. After finishing customizing the layout, press  to confirm the changes and leave the mode.



NOTES:

- a. You can press  at any time to exit the mode without saving any changes.
- b. You can press the device key to change the pages.

3.2 Code and Learn Setting Key

4000-PRO is equipped with two functions, pre-code and Learning Function, to get the right codes for your target devices.

CODE Pre-Code

You may configure all keys on 4000-PRO by entering a specific four-digit code number. This may be the fastest way to program the 4000-PRO. To get the specific code number, please refer to the supplied pre-programmed code list.

However, it requires that the device you intend to program is included in the pre-programmed code database. Some newer or less-common devices may not be pre-programmed, and their codes must be learned by using the Learning Function.

LEARN Learning Function

You can use this function to learn the IR codes directly from another remote control. This function is perfect for newer or less common devices. You can also use the function if a certain key does not perform the desired function after using the CODE function.

However, if you have the problem that the 4000-PRO cannot learn your device codes, please refer to "Troubleshooting" on page 35 or contact LONGHORN.

3.3 Using Pre-programmed Code to Program Devices

You can follow these instructions to program a device by using pre-programmed codes.

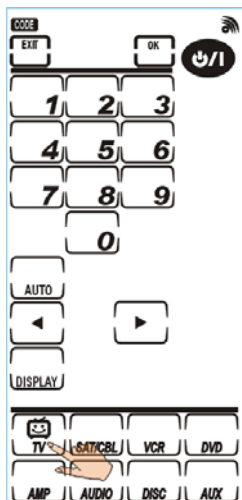
There are two ways for you to collect the right codes within the function:

- A. Manually Programming remote by Code.
- B. Automatically Programming remote by Code

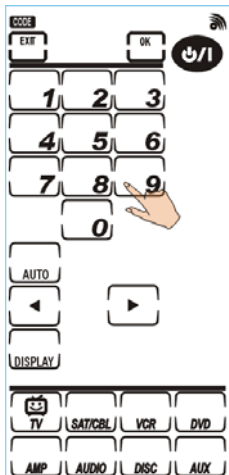
A. Manually Programming remote by Code.

1. Select a device you want to program (For example, TV).
2. Press and hold **CODE** for 3 seconds to enter the confirmation screen.
3. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the Pre-Code function.
4. Press ▲ and ▼ to scroll through the options until you

reach the icon **CODE**. Press  and enter code setup page.



5. Locate your target device's four-digit code in Preprogrammed Code List and enter it.



NOTES:






- Some codes are designed to operate more than one model. It may take several trials to find the code that fits your device.
- When you enter the four-digit code number and the icon **ERROR** is displayed, it could be that the code number doesn't exist in the Pre-programmed Code List
- Each device classification can be used to control another type of device. You just need to enter the four-digit code number.

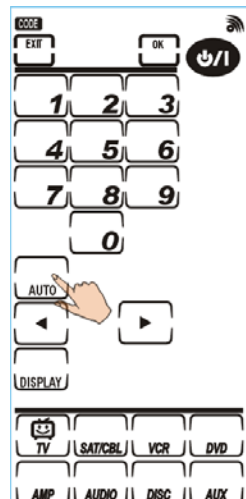
Example:

You have two different TVs, TV1 and TV2. And you want to integrate the two TVs in 4000-PRO.



- Please load the codes for TV1 by entering the four-digit code number for the TV device.
- You can select another device (for example, DVD) and load the codes for TV2 by entering the four-digit code number.
- In this way, you can control TV1 in TV device and control TV2 in DVD device.

B. Automatically Programming remote by Code

1. Please follow step1-4 stated in Manual Entry section.
2. Turn on the target device you want to control and point the 4000-PRO to the target device.
3. Press  to start Auto Search Function. 4000-PRO will send out IR codes to find the correct ones.
4. When the target device is turned off, touch any part of the screen immediately to stop the searching.
5. Press  and  to ascertain that the codes are suitable for the device. Test the  key if the device is turned on again, this means you have already found the proper codes for your devices.
6. Press  to save the codes in 4000-PRO.



NOTES:

- a. When getting the right codes, you can press  to show the four-digit code number. In this way, you can enter the code number directly in the future.
- b. You can press  at any time to exit the mode without saving any codes.
- c. Each device can automatically search the target device codes under the same classification only. For example, within TV device, Auto Search will just find the codes for TV.

3.4 Using Learn Function to Customize 4000-PRO

You can use Learning Function to get the codes directly from the original remotes.

3.4.1 Before Using Learning Function


Before you start to use Learning Function to get the codes, please pay attention to the followings:

1. Before using Learning Function, please delete the original codes saved in the specific device. For example, to operate the living room TV instead of the bedroom TV, please delete all the codes (for the living room) saved in TV device at first. And then learn the codes for the TV in the bedroom.
2. Learning Function does not work with all devices.
3. All keys except the Code Setup key, Delete key, Macro key, and System setup key can be learned.

3.4.2 Learning from Another Remote Control


Please put the original remote and 4000-PRO on a flat surface. And then have the original remote pointed to the learning eye of 4000-PRO. The distance between two remotes ought to be 2-4 inches (5-10 cm).

1. Select a device you want to program.

2. Press and hold  for 3 seconds to enter the confirmation screen.

3. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.



- Press ▲ and ▼ to scroll through the options until you reach the icon **LEARN**. And then press  to confirm your selection.




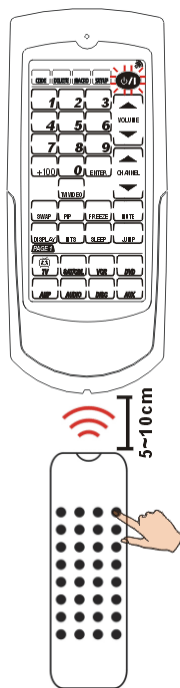
- Select a device (for example TV) in 4000-PRO.

- Have your original remote pointed to "Learning Eye" at the bottom of 4000-PRO.





- The blinking key denotes the key to be learned. To make 4000-PRO to get the code for the key, please press the corresponding key on the original remote for about 2-3 seconds until the icon **OK** is displayed on the LCD. If the icon **ERROR** appears, please repeat step 7.

- The 4000-PRO will automatically guide you to learn the next key. When you finish learning all the keys,

please press  to exit the mode.












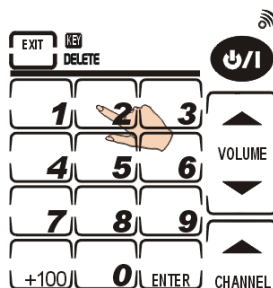
NOTES:

- a. Although 4000-PRO will guide you to learn each key, you can also select any key to learn as you want by touching it directly. You can also change the page by touching the device key.
- b. If a key has been programmed with a code, the icon  appears on the LCD. You can overwrite the code by learning directly.
- c. The 4000-PRO screen displays the icon  if 4000-PRO learns the code successfully.
- d. You can press  at any time to exit the mode when finishing learning all the codes.
- e. The device key can also save a code. To have the device key to learn a code, press the key for 3 seconds until it is blinking. Please follow step 7 to get the code for the key. When 4000-PRO learns the code successfully, the icon  will also show up.

3.4.3 Deleting Key Codes and Device Codes

You can follow these instructions to delete a code in a single key or all the codes in a device.



1. Press and hold the  key for 3 seconds to enter the confirmation screen.
 2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
 3. Press ▲ and ▼ to scroll through the options and select the icon  or  that you want to delete.
 4. And then press  key to confirm your selection.
 5. If you select  mode, it means that you intend to delete a code from a single key. Please press the specific device key you want to delete (for example TV) in advance. And then press the specific key to delete the code saved in it.
- NOTE:** Device keys can also save codes (You can refer to page21). To delete the codes saved in device keys, press the device key for one second. If you delete the code successfully, the icon  will appear.
6. If you select  mode, it means that you intend to delete all the codes saved in the device. Just press the target device key and press . In this way, you will delete all the codes saved in the target device.
 7. Press  to leave the function.

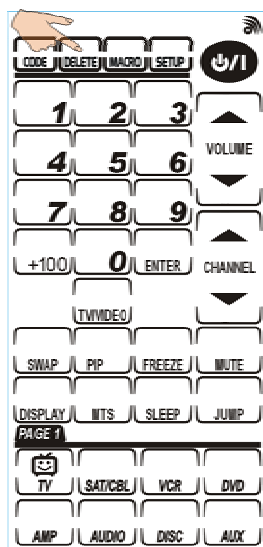



3.5 Resetting the 4000-PRO to Factory Defaults

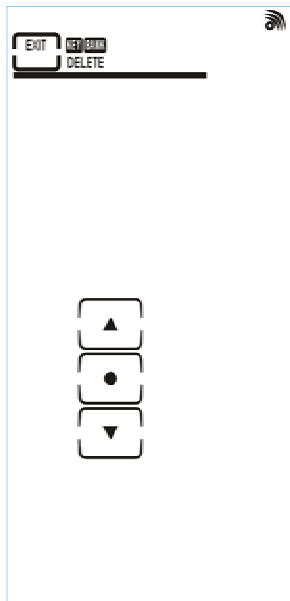
This function enables you to reset the 4000-PRO to the factory default configuration.

NOTE: All Macros and programmed keys will be deleted when you reset the 4000-PRO to factory defaults.

1. Press and hold the  key for 3 seconds to enter the confirmation screen.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. Press ▲ and ▼ to select **KEY BANK** mode.
4. And then press  key to confirm your selection.
5. To avoid resetting the remote accidentally, the confirmation screen will appear again.
6. If you really intend to reset the 4000-PRO, please press the four numbers(2,4,6,8) again.



7. The icon **OK**  appears briefly on the screen to tell you that the 4000-PRO returns to the factory defaults.




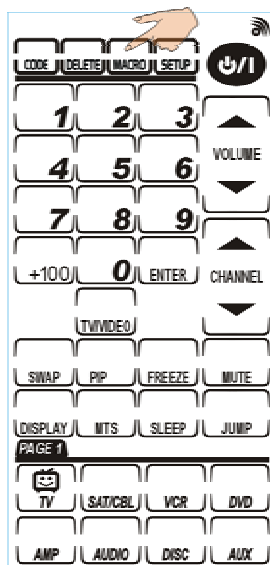
3.6 Macro Function

A Macro includes a series of commands. Macro function enables you to initiate a sequence of up to 60 commands just with a single key. You can use any key as your Macro key and insert time delays into the sequence. However, please remember that it will disable the original key function when you use the key as your Macro key.

3.6.1 Creating a Macro

Please refer to the following steps to create a new Macro key.

1. Press  for three seconds to enter the confirmation screen.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. When you are in the mode, the icon "MACRO" flashes on the upper part of the LCD.
4. Please press a device key you want to use for you Macro (for example TV). And then press any key to use it as the Macro key. You hear three beeps to indicate that you are ready to setup your Macro key.



NOTE:

If you select a key that already has been used as a Macro key, the new setting will replace the old Macro setting.

5. Press any key as the commands saved in the Macro key.

NOTES:

- a. You can choose any key in any device. You just need to press the device key directly to select different keys.
- b. You can setup the delays between the two commands. Please press **DELAY** and decide the time of delay. The time of delay ranges from 1 to 9 seconds.

6. Press **OK** to confirm your setting or **EXIT** to cancel the setting.





3.6.2 An example to create a Macro

The following example will help you better understand creating a Macro sequence. It is provided to teach you how to create a Macro. By no means it is the only Macro sequence you can create. You can create Macros using any sequence of commands you desire.

The following Macro example will:

1. Turn the TV on.
2. Switch the TV to Video mode.
3. Turn the DVD player on.
4. Create a five-second delay.
5. Play a DVD.






Set up the example macro using the following steps:

1. Press and hold  for 3 seconds to enter the confirmation screen.
2. Press each number key (2, 4, 6, 8) in any order until they disappear and **MACRO** begins flashing.
3. Select TV device key . Then, press "1" in the TV device will be used to start the macro in the normal operation mode.




NOTES:

- a. 1 will no longer perform its original function.
- b. If you select a key that already has a macro stored in it, the new macro replaces the old one.
- c. Do not use one of the eight DEVICE KEYS to run your Macro.

4. Press  to switch to Video mode so that you can watch the DVD.

5. Press  to switch to the DVD device menu so you can construct a series of commands for the DVD player.
6. Press  (You may need to set a time delay between turning on the DVD player and playing a DVD.)
7. Press , and a number pad appears.
8. Press the desired time delay. In this case, press 5.
9. Press .
10. Press  to confirm setting.



NOTES:

- a. Press  at any time while creating a macro to exit macro mode.
- b. You may create another macro at this time by entering another sequence of commands.
- c. If trying to create a Macro with  under VCR, you must press and hold  for two seconds. This is to prevent a accidentally overwriting a tape.
- d. You cannot include another Macro key in the Macro key you are setting. If you do so, the Macro you are newly adding won't still send out the commands saved in another Macro key.

Running a Macro

1. TV turns on.
2. TV switches to Video mode.
3. DVD player turns on.
4. Five-second delay.
5. DVD player starts playing DVD.

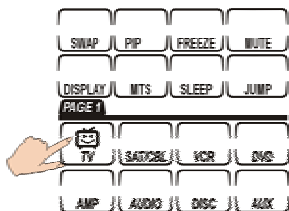
3.6.3 Macro Interruption


After pressing the preset Macro key for a device, you can interrupt the command sequence by pressing , then  appears and the macro stops.


3.6.4 Viewing the Macro Key

You can view which keys are used as Macros for any particular device. Follow these instructions:

1. Press the device key (for example  TV).



2. Press  and then the Macro keys will be displayed on the LCD.

For example, if you set number 9 as a Macro key for on PAGE 1 in the TV device, the preset Macro key "9" will appear when you press the  key.

3. If you want to check the Macro key on Page 2, press the device key to switch to the second device page, and then repeat Step 2.



Chapter 4 Miscellaneous Settings






This chapter will tell you how to use transmission function, setup the backlight, and adjust the beep.

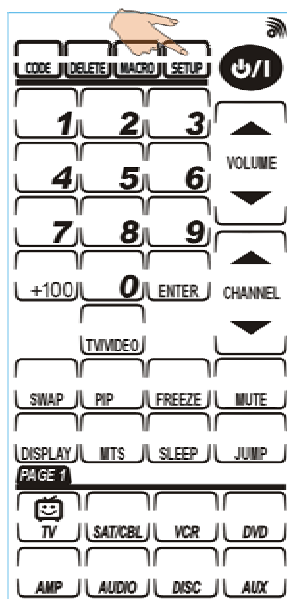
4.1 Using the Transmission Function



The 4000-PRO can transmit customized data to another 4000-PRO.

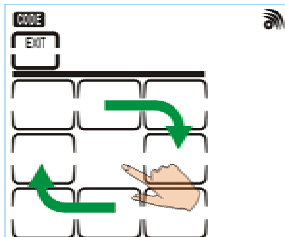
NOTE:

Before using this function to transfer data, you must connect two **4000-PRO** with SLC-2080 USB cable (optional accessory). You can refer to Appendix B for more information about the cable.

1. Press and hold  for 3 seconds to enter the confirmation screen. You only need to operate on the programmed 4000-PRO.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. Press  and  to select the icon . And then press  to begin the transmission.
4. During the transmission, the LCD displays blank keys as shown in the illustration on the next page.



5. When the transmission is completed, an icon **OK**  will be displayed on the LCD. If the transmitting fails, an icon **ERROR** will show up.
6. For a double transmission, repeat Step 3.
7. You can press  to cancel the transmission.



Transmission screen







NOTES:

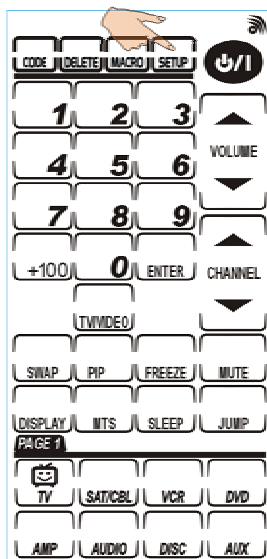
Before transferring the data, please pay attention to 3 points:

- a. The two 4000-PRO remote controls have fresh batteries.
- b. These remotes are turned on.
- c. These remotes are connected by the USB cable.

4.2 Setting the Backlight

4.2.1 Setting the Backlight






1. Press and hold  for 3 seconds to enter the confirmation screen.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. Press  and  to select the icon . And then press the key  to start the setting.
4. Press a numerical key 1-6 to select the backlight lasting time.
5. Press  to save your settings.

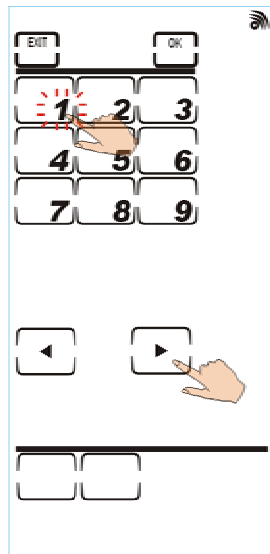


NOTE:

The backlight lasting time can be set from 10 to 60 seconds in 10-second increments, '1' for 10 seconds, '2' for 20 seconds, and so on.

4.2.2 Setting Backlight Sensitivity

1. Press and hold **SETUP** for 3 seconds to enter the confirmation screen.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. Press ▲ and ▼ to select the icon **BACKLIGHT**. And then press  to start the setting.
4. Press  or  to adjust the light sensor sensitivity.
The frames above indicate the sensitivity of the 4000-PRO. More frames will light-up the backlight more easily.
5. Press  to save the settings or press  to leave the mode without saving.












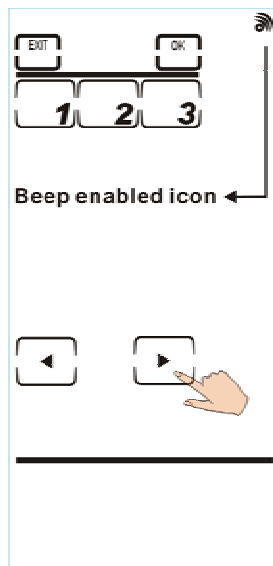
NOTES:

- a. The more frames you select, the more sensitively the backlight reacts to the ambient lighting.
- b. The light sensor sensitivity ranges from 1 to 8.
- c. When you touch the LCD, the 4000-PRO activates the backlight automatically according to the environment.


You can save the power by adjusting the backlight lasting time and the sensitivity of light sensor.

4.3 Turning Off the Beep Signal

1. Press and hold  for 3 seconds to enter the confirmation screen.
2. Press each number button (2, 4, 6, 8) in any order until they disappear and start to use the function.
3. Press  and  to select the . And then press  to start the setting.
4. Press  or  to change the different beep pitch or turn off the beep sound.
5. Press  to save the settings or press  to leave the mode without saving.



NOTE:

The number key shows the different pitch of the beep. When beep is turned off, the icon  will disappear on the LCD.

Chapter 5 Controlling Devices

The 4000-PRO is designed to be simple and straightforward to operate. This chapter explains how to use the 4000-PRO to control all your devices.

NOTE:

This chapter assumes you have already set up the **4000-PRO** and saved all the IR codes for the keys. You can refer to *Chapter 3 Setting Up the 4000-PRO on page 9* for more information about how to get the IR codes.

5.1 Alternating Between Screens

Press a device key to alternate between page 1 and page 2.

5.2 Controlling Devices

1. Make sure the 4000-PRO is pointing to the target device.
2. Tapping the Touch Screen gently.
3. Select a device key and give remote commands as usual.

If the icon **ERROR** appears, it means that the pressed key doesn't have IR code.

NOTE:

The Record Key (Within VCR Device, page 1) must be held down for two seconds. It is a double-confirmation design to prevent users from overwriting a tape accidentally

Appendix A

Functions and Specifications

Functions

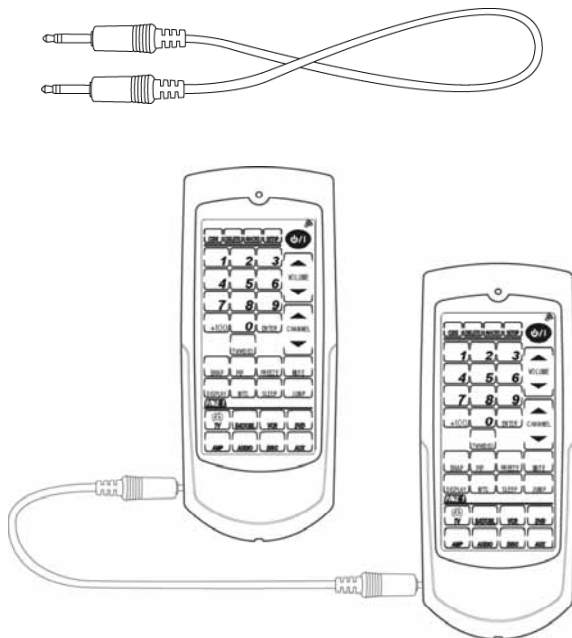
- 8 in One IR learning type and pre-programmed remote control
- High performance MCU capable of upgrading programs
- 512 KB Flash Memory for Learning/pre-programmed codes, so that you never lose your data when removing your batteries.
- Each device includes up to 56 keys on two pages
- Capable of learning carrier (frequency: 20KHz-455 KHz) and pulse codes
- Capable of deleting single key, single device or all remote codes
- Flexible LCD layout
- Each Macro key can save up to 60 commands, including time delays between commands
- The commands included in a Macro key will be shown on the LCD while the Macro key is working.
- Backlight works automatically according to the environment
- Automatic Power Saving Function
- Motion detector to turn on 4000-PRO automatically
- Battery low indicator

Specifications

Model	4000-PRO
Dimensions (WxHxD)	3.1 x 7.5 x 1.25 inches (7.9 x 19 x 3.2 cm)
Weight (without Batteries)	210 g
Number of Device	8 devices
Keys	2 pages/56 keys/ each device
Backlighting	Blue LED
Learning Frequency	20 KHz – 455 KHz & pulse up to 256 bits long
Memory	512 KB flash memory
Batteries	AAA x3 Alkaline batteries
Power Consumption	LCD Off: 50 μ A LCD On: 300 μ A Operation: 30–150 mA (Max.)
Operating Distance	Approx. 30 feet (8-10 meters)
Interface	UART/115,200 bps (optional SLC-2080 USB cable)
IR Distance	8-10 meters
LCD Screen (W*H)	TN LCD 2.3 x 4.8 inches (5.8 cm x 12 cm)

Appendix B Accessories

SLC-2080 USB cable



The SLC-2080 USB cable is an optional USB cable that transfers the data between two 4000-PROs. All settings including MCU firmware, settings in the flash memory and pre-programmed codes will be transferred by transmission function described in Chapter 4 *"Miscellaneous Settings."*

By connecting a transmit wire between two 4000-PROs, you can also duplicate settings and functions from one 4000-PRO to another.

Appendix C Troubleshooting

Troubleshooting Tables

Problem	Solution
LCD does not show anything when you touch it.	<ol style="list-style-type: none">1. Batteries may be dead. Replace the batteries with three new AAA alkaline batteries (page 4)2. Check that the batteries are properly installed.
The 4000-PRO doesn't operate a device.	<ol style="list-style-type: none">1. Make sure that the desired device key on the 4000-PRO LCD panel has been selected.2. Move closer to the device. The maximum operating distance is approximately 30 feet.3. Ensure that you are aiming the 4000-PRO directly at the device and that there are no obstructions between the 4000-PRO and the device.4. Ensure programming with the learning function (page 15) or the manufacturer codes has been properly done.5. Learn code the key (page 10).
You see "ERROR" displayed during operation.	<ol style="list-style-type: none">1. The key that you pressed has not been taught.2. Teach the key using the learning procedure (page 15).

Problem	Solution
<p>You cannot operate a device even after using the Learning Function.</p>	<ol style="list-style-type: none"> 1. Make sure that your 4000-PRO has correctly learned the target device's remote control code (page 15). 2. Delete the device data from the 4000-PRO and carry out the learning function again (page 15). 3. Make sure you did not program more than one remote for a given device.
<p>You see "ERROR" display on the LCD during the learning procedure.</p>	<ol style="list-style-type: none"> 1. Make sure you hold the target remote's key till the screen displays Ok or Error on the screen. 2. Make sure the two remotes are not too close or too far apart - keep them about 2~4 inches (5~10 cm) apart, and your device remote control is aiming directly at the 4000-PRO's learning eye.
<p>Your VCR will not record.</p>	<ol style="list-style-type: none"> 1. As a safety feature on the 4000-PRO, you must press the REC key for two seconds.
<p>Macro does not work.</p>	<ol style="list-style-type: none"> 1. Be sure to aim the 4000-PRO at the devices while the Macro commands are being sent. 2. Macro was not properly set up. Repeat Macro set-up procedure (page 21).

Problem	Solution
<p>IR LEARNING is not successful.</p>	<ol style="list-style-type: none"> 1. Replace batteries in the 4000-PRO and the remote you are trying to configure. 2. Keep the distance between the remote control and the 4000-PRO's learning eye to about 2~4 inches. 3. Do not use the learn function near an incandescent lamp. 4. Memory capacity is full (56 keys for each of eight models). 5. The learning process has no errors, but you still can't control your AV devices: repeat the learning procedure again. If you still can't solve the problem, contact LONGHORN for help. 6. Original remote might not be compatible with learning procedure.
<p>A key of your existing remote performs two or more functions</p>	<p>Some remotes issue multiple commands when a key is held down. Please be sure to teach different keys of 4000-PRO for these different commands. Each key of 4000-PRO can only learn one command.</p>
<p>The LCD screen turns off.</p>	<p>The 4000-PRO is preset automatically to switch the LCD off after the Power Down time (90 seconds). Just tap the touch screen to turn the 4000-PRO back on again.</p>

Appendix D

Foxtel Digital Key Assignment

Pre-Programmed into SAT/CAB tab
On your Longhorn 4000-PRO remote

Main buttons like

- Channel Up
- Channel Down
- Volume Up
- Volume Down
- Directional buttons
- Number buttons
- Coloured buttons (R/G/Y/B)

Are self-explanatory as they are directly programmed into the same keys on your Longhorn remote control.

However, please refer to the image on the right for specialized Foxtel Digital remote control functions like AV, Foxtel, TV Guide, *i* (information), Select and Back buttons.

