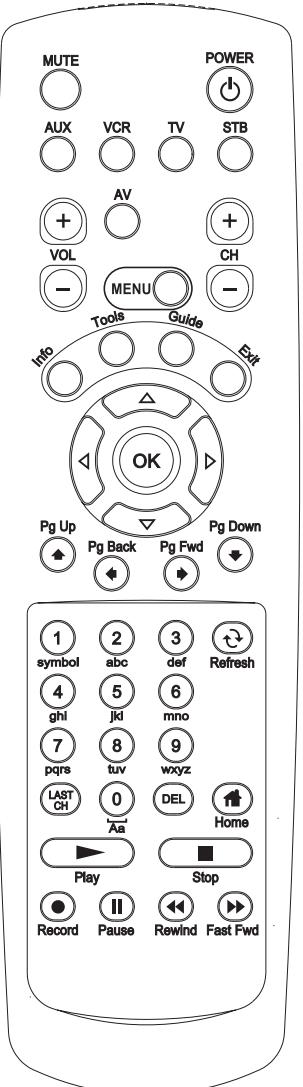


Operating Instructions For The PalAmino4 4-Function Remote Control



1 Introduction

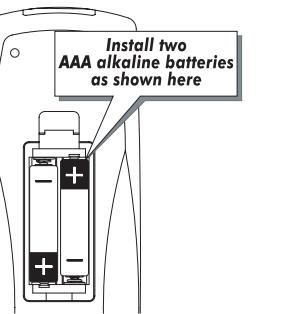
The remote control is designed to operate the PalAmino4 of Set-Top Boxes (STBs) and the majority of TVs, VCRs, DVDs and AUDIO components on the market today, as shown below.

- TV** : TVs, Plasma TVs and LCD TVs
- VCR** : VCRs and DVDs
- AUX** : Audio Receivers and Amplifiers, etc

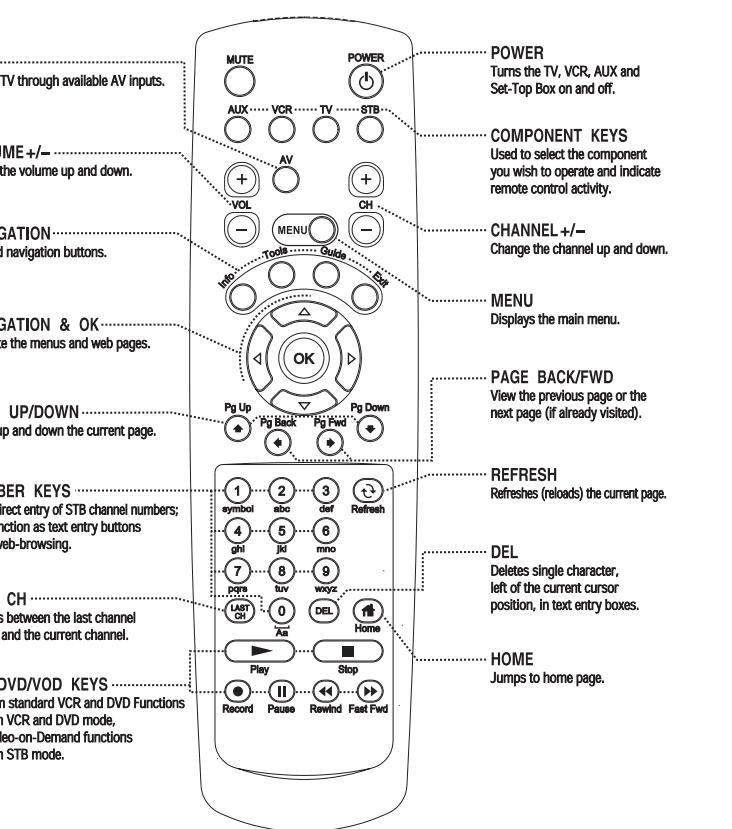
2 Replacing Batteries

Before you program or operate the remote control, you must install two new AAA alkaline batteries.

- STEP1** Remove the battery compartment cover on the back of your remote control.
- STEP2** Check battery polarity carefully, and install the batteries as shown in the illustration below.
- STEP3** Replace the battery compartment cover.



3 Button Functions



5 Programming the Remote Control

A. Three-Digit Code Programming Method.

The remote control can be programmed by pressing in a three-digit code number that corresponds to a particular manufacturer and brand of Audio/Video component. The three-digit code numbers are listed in the Set-up Code Tables on the backside of this instruction manual.

- STEP1** Turn on the A/V component you wish to program. (TV, VCR, DVD or AUX). Refer to section E for programming the volume and mute through your STB or AUDIO component.
- STEP2** Press the [COMPONENT] button (TV, VCR, DVD or AUX) to be programmed and the [OK] button simultaneously for 3 seconds. The selected component LED light will turn on indicating the component is ready to be programmed.

***Tip:** If you do not begin entering code numbers within 20 seconds, the component LED light will turn off and exit set-up mode and you will need to start over.

- STEP3** Point the remote control toward the selected component and enter the three-digit code number assigned to your brand from the code tables.

***Tip :** The component will turn off when the correct three-digit code number has been entered. You can verify you have selected the correct code by pressing the [POWER] button. The component should turn on or off.

***Note :** 2 colons If there is more than one three-digit number listed for your brand, try one code number at a time until your component turns off.

- STEP4** Store the three-digit code number by pressing the same [COMPONENT] button once again. The component LED light will blink twice to confirm that the code has been stored.

***Tip :** If you do not press the [INFO] button within 20 seconds, the component LED light will turn off and exit set-up mode and you will need to start over.

- STEP2** Press the [INFO] button. The component LED light will indicate the three digits that comprise the code number by blinking the corresponding number of times for each digit, separated by a one second interval, during which time the component LED light will turn off.

B. Auto Search Method.
If the three-digit code numbers assigned to your brand do not turn off your component or the code tables do not list your brand, you can use the **Auto Search Method** to find the **correct three-digit code number for your component** by performing the following steps:

- STEP1** Turn on the component you wish to operate.

- STEP2** Press the [COMPONENT] button (TV, VCR, DVD or AUX) to be programmed and the [OK] button simultaneously for 3 seconds. The component LED light will turn on.

***Tip :** If you do not press either the CH+ or CH- button within 20 seconds, the component button LED light will turn off and exit set-up mode and you will need to start over.

- STEP3** Press the [CH+] or [CH-] button one step at a time or keep it pressed. The remote will emit a series of Power ON/OFF commands. Release the [CH+] or [CH-] button as soon as the component turns off.

***Tip :** You can verify that you selected the correct code by pressing the [POWER] button again. The component should either turn on or off.

***Note :** The [AUX] LED light will blink once for each button pressed. Once you enter the correct code number, the component will turn off. If the component does not turn off, press the next code numbers listed for your brand until the component turns off.

C. To Find the Three-Digit Code Number That was Stored in the component.

- STEP1** Press the [COMPONENT] button (TV, VCR, DVD or AUX) you wish to verify and the [OK] button simultaneously for 3 seconds.

***Tip :** If you do not press the [INFO] button within 20 seconds, the component LED light will turn off and exit set-up mode and you will need to start over.

- STEP2** Press the [INFO] button. The component LED light will indicate the three digits that comprise the code number by blinking the corresponding number of times for each digit, separated by a one second interval, during which time the component LED light will turn off.

E. Programming Volume Control .
By following the steps below, the user can program the volume controls (Volume Up, Volume Down and Mute) from one device to operate in another device mode. The default volume control settings on the remote control is as follows :

STB : TV **TV** : TV
VCR : TV **AUX** : AUX

If you wish to store the STB volume control in STB mode, use the following steps.

- STEP1** Press the [STB] button and the [OK] button simultaneously for 3 seconds until the component LED light turns on.

***Tip :** If you do not press the [VOL+] button within 20 seconds, the component LED light will turn off and exit set-up mode and you will need to start over.

- STEP2** Press the [VOL+] button.
- STEP3** Press the [STB] button.

The STB LED light LED will blink twice to confirm the programming.

F. Programming Channel Control.

By following the steps below, the user can program the channel controls (Channel Up, Channel Down and Last) from one component to operate in another component mode. The default channel control settings on the remote control is as follows:

STB : STB **TV** : STB
VCR : VCR **AUX** : AUX

If you wish to store the TV channel control in TV mode, use the following steps.

- STEP1** Press the [TV] button and the [OK] button simultaneously for 3 seconds until the TV LED light turns on.

***Tip :** If you do not press the [VOL-] button within 20 seconds, the TV LED light will turn off and exit set-up mode and you will need to start over.

STEP2 Press the [VOL-] button.

The TV LED light will blink twice to confirm the programming.

To return to the original default state:

If you wish to restore the STB channel control in TV mode, repeat the above steps by pressing [STB] in **STEP3**.

G. Low Battery Warning.

When the battery is low and needs to be replaced with fresh batteries, the remote control component LED lights will blink 2 times in sequence whenever a [POWER] button is pressed to turn on components

H. Memory Lock System.

This remote control is designed to retain programmed memory for 10 years even after batteries are removed from the remote control.

I. Write your component Set-up codes.

TV Set-up Code Number :
VCR Set-up Code Number :
AUX Set-up Code Number :

6 Set-up Code Tables

TV	
MAKER(BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
GOLDSTAR	004 106 119 110 112 113 127 143
GRUNPY	028 043
HAIER	084 196
HALL MARK	004
HARLEY DAVIDSON	028
HARMAN KARDON	164
HARVARD	043
HISENSE	170 179
SAMSUNG	004 101 127 133 143 160 089 105 211 228 229
HITACHI	163 004 007 009 011 072 010 012 023 075 143 158 166
HP	027 039 214
HYUNDAI	049 067
ILO	183
INFINITY	164
SCOTT	004 005 028 043 048 143 191
SEARS	004 007 015 028 030 057 082 094 143 160 052
INKEL	129
INTEQ	073
JBL	164
JCB	001
JCPENNEY	004 006 008 024 030 065 101 143 156 160
JENSEN	013
JVC	038 001 034 083 206 159
KENWOOD	006 001
KLEGG	182
KLOSS	002 059
KONKA	180
KTV	006 043 143 154
LG	004 106 119 110 112 113 127 143 084
LODGENET	072
LOEWE	207 164
LOGIK	072
LUXMAN	004
LXI	007 015 052 081 160 164
MAGNAVOX	006 003 004 022 059 060 061 063 064 127 164 094 160 028 035 124 181
MAJESTIC	072
MARANTZ	164 006
MATSUI	164
MATSUSHITA	080
MEGATRON	004
TEKNIKA	002 003 004 024 028 043 072 101 143 103 164
MINTEK	108 168
MITSUBISHI	109 024 042 004 040 146 028 081 225
MOTOROLA	081
MTC	006 004 062 101
MULTITECH	043
NAD	015 025
DYNEX	145
ELECTROBAND	001
ELECTROGRAPH	182
ELECTROHOME	024 076 143
ELEMENT	084 190
EMERSON	005 028 043 048 076 096 155 004 051 143 151 153 154
ESA	078
FISHER	007 057
FUJITSU	164 028 198 246 066 138
FUNAI	028 043 052 249
FUTURETECH	043
GATEWAY	242 078
GE	006 073 144 160 161 004 008 009 034 056 074 091 155 081 120
GEM	078
GIBRALTER	004 073
PROVIEW	190

TV

MAKER(BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
QUASAR	034 056
RADIO SHACK	004 019 127 143 043
RCA	160 161 144 156 065 006 004 023 024 056 074 152 081
REALISTIC	007 019
RUNCO	072 073 050 137 169
SAMPO	006 004 058 242
SAMSUNG	004 101 127 133 143 160 089 105 211 228 229
SANSEI	120
SANSUI	096 145
SANYO	007 053 057 082 020
SCEPTRE	036
SCOTCH	004
SCOTT	004 005 028 043 048 143 191
SEARS	004 007 015 028 030 057 082 094 143 160 052
INKEL	129
SEMOVIX	043
SEMP	015
SHARP	081 014 019 028 004 022 143 175
SIGNATURE	072
SONY	001 126 139
SOUNDESIGN	003 004 028 043
SPECTRICON	112
SPECTRONIQ	193 195
SQUAREVIEW	052
SSS	004 043
STARLITE	043
SUPRE MACY	002
SUPREME	001
SVA	079
SYLVANIA	006 003 059 060 063 064 127 160 164 044 249 213
SYMPHONIC	052 249
SYNTAX OLEVIA	216 084 132
TANDY	081
TATUNG	056 062
TECHNICS	034 080
TECHNOL ACE	028
TECHWOOD	004
TEKNIKA	002 003 004 024 028 043 072 101 143 103 164
TELERENT	072
TERA	172
TMK	004
TNCI	073
TOSHIBA	015 030 007 040 062 101 045
TOTEVISION	143
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDIKRON	174 188 164 050
VIDTECH	004
PANASONIC	080
PHILCO	006 003 004 024 056 059 060 063 064 127 143 164
VIORE	183
VITO	084
WAVIS	078
WARDS	004 064 164 008 009 019 028 060 061 063 072 074 143
WESTING HOUSE	076 036 001 217 218
YAMAHA	004 006 115 116 162 165
YORK	004
ZENITH	072 073 095 103 011 096
ZONDA	112

TV

MAKER(BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
ADMIRAL	025 053
AIKO	117
AIWA	034 161 101
MATSUI	027 030
AKAI	043 046 124 146
AMERICA ACTION	117
AMERICAN HIGH	031
AMPRO	072
ANAM	031 103
MEI	031
MEMOREX	040 101 003 014 031 034 053 072 134 139 025
MGA	045 046 059
MGN TECHNOLOGY	040
MINOLTA	004 020
MITSUBISHI	059 061 051 004 046 020 045 053
MOTOROLA	031 053
MTC	034 040
MULTITECH	024 034
CALIX	101
CANON	028 031
NIKKO	101
NOBLEX	040
CCE	024 117
NORDMENDE	043
CINERAL	117
CITIZEN	101 117
COLT	148
CRAIG	003 040 135 024 101
CURTIS MATHEWS	031 041
CYBERNEX	040
DAEWOO	005 108 111 117 017 065 007 010
DAYTRON	108
DBX	012 023 043
DYNATECH	034 053
ELECTROHOME	059 101
ELECTROPHONIC	101
EMERSON	006 029 035 037 129 153 017 025 027 031 034 036 046 101 131 138 117
FISHER	003 010 008 009
FUJI	031
FUNAI	034
GARRARD	034
GE	031 072 144 147 063 107 109 040 053
GO VIDEO	132 155 040 136
GOLDSTAR	101 004 012 020
HARLEY DAVIDSON	034
HARMAN KARDON	012 045
HARWOOD	024
HITACHI	004 026 034 043 063 137 150
HQ	034
HUGHES	004
INSTANTREPLAY	031
JCL	031
TECHNICS	031 070
TEKNIKA	031 034 101
JENSEN	043
THOMAS	034
TMK	006 040
TOSHIBA	017 131 004 008 059 082 150
VIORE	101 117
KENWOOD	034 150 014 048
KLH	024
UNITECH	040
KODAK	031 101
VECTOR RESEARCH	012
LG	101 004 012 020
LLOYD	034
VIDEOSONIC	040
WARDS	003 004 017 024 031 034 040 053 054 131
WESTINGHOUSE	024 025
YUPITERU	043
XR-1000	024 031 034
MAGNASONIC	117
MAGNAVOX	067 031 034 068 041 156 170
ZENITH	072 034 001 058 080 101 153 048 025

VCR & TV/VCR

MAKER(BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
MARANTZ	067 069 012 031
MARTA	101
MATSUI	027 030
MATSUSHITA	031
MEI	031
MEMOREX	040 101 003 014 031 034 053 072 134 139 025
MGA	045 046 059
MGN TECHNOLOGY	040
MINOLTA	004 020
MITSUBISHI	059 061 051 004 046 020 045 053
MOTOROLA	031 053
MTC	034 040
MULTITECH	024 034
CALIX	101
CANON	028 031
NIKKO	101
NOBLEX	040
CCE	024 117
NORDMENDE	043
CINERAL	117
OLYMPUS	031
OPTIMUS	053 101
PILOT	101
PIONEER	021 004 048
PORTLAND	108
PROFITRONIC	040
PROTEC	024
RCA	107 109 144 041 031 004 020 034 040 140 147 158 053
SALORA	014
SAMSUNG	040 017 107 109 113 115 124 122
SANKY	053
SANSUI	043 135 048 025 034
SANYO	003 014 040 134
SCOTT	017 037 129 131
SEARS	003 004 008 014 017 081 101 010 031 034
SHARP	053 031 054 159
SHINTOM	024
SHOGUN	040
SINGER	024
SONY	001 057 058 003 052 053 031 154 171 009 034
SOUNDESIGN	034
STS	004
SYLVANIA	031 034 059 067
SYMPHONIC	034
TANDY	034 010
TATUNG	043
TEAC	034 043
TECHNICS	031 070
TEKNIKA	031 034 101
JENSEN	043
THOMAS	034
TMK	006 040
TOSHIBA	017 131 004 008 059 082 150
TOTEVISION	040 101
UNITECH	040
KODAK	031 101
VECTOR RESEARCH	012
LG	101 004 012 020
LLOYD	034
VIDEOSONIC	040
WARDS	003 004 017 024 031 034 040 053 054 131
WESTINGHOUSE	024 025
YUPITERU	043
XR-1000	024 031 034
MAGNASONIC	117
MAGNAVOX	067 031 034 068 041 156 170
ZENITH	072 034 001 058 080 101 153 048 025

*Note : For TV/VCR or TV/DVD combination unit, Please use following steps to operate the volume control.

- STEP1** Press the [STB] button and the [OK] button simultaneously for 3 seconds. The [STB] button will light on for 20 seconds.
- STEP2** Press the [VOL+] button.
- STEP3** Press the [VCR] button. The LED will blink twice to confirm the programming.

VCR(DVD & TV/DVD)

MAKER(BRAND) NAME	CODE NUMBER (3 DIGIT) LIST
RCA	230 231 176
SAMSUNG	236 248 201 191 167 179