

## **Wake Time**

The Touchscreen Remote Control enters a power-saving “sleep mode” until you press a button. Wake time determines how long the remote control remains awake after the last button press.

## **Sound**

The remote control has the option of making a sound whenever a button is pressed. You may select between various sounds as well as no sound.

## **Repeat**

The remote control sends an infrared command three times by default when playing a macro or performing a search. This is consistent with the operation of nearly all consumer products. If you find your device is responding erratically (for example, the channel increases more than once when playing a macro with a channel up button), you may need to change this setting. *Note: This setting rarely needs to be changed from the factory default.*

## **Backlight Time**

Backlight time determines how long the backlight remains lit after the  (light) button is pressed.

## **LCD Contrast**

This enables you to adjust the LCD contrast for best viewing as the batteries drain. The LCD contrast changes as you adjust this setting. To save the setting and exit the LCD contrast adjust mode, press .

## **RF Finder**

This enables you to turn on or off the RF Finder. Default is RF finder on. In very rare circumstances, you may find external signals causing the remote control finder to beep. Turning off the RF Finder will also greatly increase the time between battery charges.

## **Reset the Remote Control**

All set up information including learned buttons and favorite channels are stored in special non-volatile memory so that this information is not lost when you change batteries. On rare occasions you may wish to return the Touchscreen Remote Control to the original factory settings. To reset the remote control, press the  or  buttons until you see the words

RESET PRESS 1 2 3.

Press in succession  →  → 

***Caution: this will erase all set up information and macros. The remote control will be reset to its default settings.***

## **CHARGER CRADLE**

The Touchscreen Remote Control includes a special Charger Cradle that allows you to safely store the remote control while you recharge the batteries.

To use the Charger Cradle, plug the AC adapter into a wall socket and insert the remote control into the Charger Cradle.

You cannot over-charge the remote control. The charger's LED will light whenever the charger cradle is plugged in and the remote control is properly inserted. It is normal for the cradle and batteries to become slightly warm while charging.

 *When your remote control is not in use, keeping it in the charger cradle (especially overnight) will ensure it is fully charged for your next use.* 

 **IMPORTANT!** *Use rechargeable batteries only. Use of standard alkaline batteries with the charging cradle may damage the remote control and create a potential fire hazard.* 

## BATTERIES

Your Touchscreen Remote Control requires four new *standard\** AA rechargeable Nickel-Cadmium (Ni-Cd) or Nickel-Metal Hydride (Ni-MH) batteries. *To avoid fire hazard, use only Ni-Cd or Ni-MH rechargeable batteries with the charger cradle. Do not use ordinary alkaline batteries.* You will enjoy longer operation between charges with Ni-MH batteries.

To install the batteries, open the battery cover on the back of the remote control by pushing back on the tab and pulling out the cover. Insert four batteries in the direction indicated on the inside of the battery compartment and close the cover.

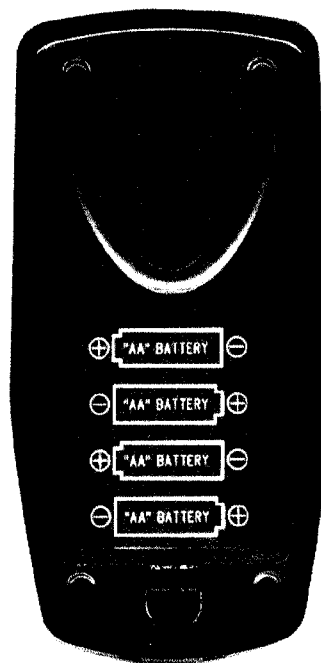
To charge the batteries, plug the power cube into a wall outlet and place the remote control on the charger stand. Prior to initial use, charge the batteries at least 4 hours. (Overnight charge recommended).

*Note: if the batteries become discharged, unlike conventional remote controls, the Touchscreen Remote Control will retain its set up and programming indefinitely.*

☞ When your remote control is not in use, keeping it in the charger cradle (especially overnight) will ensure it is fully charged for your next use. ☞

### USE RECHARGEABLE AA BATTERIES ONLY

\* 700 mAh Ni-Cd or 1600 mAh NI-MH preferable. NI-MH will provide longest operation between charges.



Battery compartment

## INDEX OF DEVICE CODES

Following is a list of device codes to be used when programming the remote control. Note that the first codes listed for an entertainment device brand are the latest models. You may have to try some or all of the codes for each brand before you find the proper code for your product.

### Set-Up Procedure (see page 6 for details)

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| 1. [TV], [CBL], [VCR], etc.   | Press the device button.                                  |
| 2. [PROGRAM]                  | Press the [PROGRAM] button.                               |
| 3. [1] → [2] → [3]            | Type in the 1, 2 or 3-digit code for your TV, VCR, etc.   |
| 4. [PROGRAM]                  | After you have entered the correct code, press [PROGRAM]. |
| 5. [TV], [CABLE], [VCR], etc. | Repeat steps one through four for each device.            |

### TV Device Codes

| TV Manufacturer | TV Device Code                         |
|-----------------|----------------------------------------|
| Admiral         | 584, 600, 648, 716, 643, 569, 710, 667 |
| Adventura       | 611                                    |
| Aiko            | 587                                    |
| Aiwa            | 549                                    |
| Akai            | 680, 633, 649                          |
| Alleron         | 584, 600                               |
| Amark           | 685                                    |
| Anam            | 591, 585, 600, 635, 636                |
| Anam National   | 635, 636                               |
| AOC             | 583, 646, 644, 557, 684                |
| Archer          | 685                                    |
| Audiovox        | 685, 671                               |
| Belcor          | 583                                    |
| Bell and Howell | 648, 584, 710, 716                     |
| Blaupunkt       | 589, 658                               |
| Bradford        | 600                                    |
| Brokwood        | 583                                    |
| Brooksonic      | 557                                    |
| Candle          | 611, 637, 644, 684                     |
| Capehart        | 646                                    |
| Carver          | 629                                    |
| CCE             | 597                                    |
| Celebrity       | 615                                    |
| Centurion       | 563                                    |
| Cetronic        | 600                                    |

| TV Manufacturer | TV Device Code                                             |
|-----------------|------------------------------------------------------------|
| Citizen         | 611, 684, 586, 589, 587, 602, 641, 637, 644                |
| Clairtone       | 588                                                        |
| Classic         | 600                                                        |
| Clearmax        | 702                                                        |
| Colortyme       | 563                                                        |
| Comcast         | 673                                                        |
| Concerto        | 637, 644                                                   |
| Contec / Cony   | 600, 588                                                   |
| Coronado        | 639, 641                                                   |
| Craig           | 720, 600, 566                                              |
| Croslex         | 717                                                        |
| Crown           | 641                                                        |
| CTX             | 208                                                        |
| Curtis Mathes   | 586, 589, 641, 684, 710, 720                               |
| CXC             | 600                                                        |
| Daewoo          | 583, 587, 602, 631, 630, 641, 564, 602, 627, 687, 671, 696 |
| Daytron         | 641, 694, 563                                              |
| Decca           | 604                                                        |
| Dumont          | 583                                                        |
| Dynasty         | 600                                                        |
| Dynatech        | 611                                                        |
| Electroband     | 615, 588                                                   |
| Electrohome     | 615, 563, 583                                              |

| TV Manufacturer | TV Device Code                                                            |
|-----------------|---------------------------------------------------------------------------|
| Emerson         | 623, 561, 565, 584, 718, 676, 566, 600, 576, 588, 590, 593, 641           |
| Envision        | 684                                                                       |
| Fisher          | 642, 721, 575, 597                                                        |
| Fortress        | 569                                                                       |
| Fujitsu         | 584                                                                       |
| Funai           | 584, 600, 619, 713, 631                                                   |
| Futuretech      | 600                                                                       |
| GE              | 624, 625, 643, 645, 634, 635, 636, 582, 566, 667, 692, 704, 666, 569      |
| Gemini          | 192, 216, 223                                                             |
| Gibraltar       | 583                                                                       |
| Goldstar        | 583, 694, 686, 619, 618, 628, 610, 641, 637, 644, 557                     |
| Griswold        | 592                                                                       |
| Grundig         | 625, 613, 685                                                             |
| Hallmark        | 563, 583, 623, 584                                                        |
| Havard          | 563, 600, 623                                                             |
| Hitachi         | 621, 708, 694, 599, 604, 724, 659, 679, 581, 606, 640, 641, 637, 644, 645 |
| IMA             | 600                                                                       |
| Infinity        | 629                                                                       |
| Janeil          | 611                                                                       |
| JBL             | 629                                                                       |
| J.C. Penney     | 583, 583, 624, 684, 586, 589, 692, 608, 641, 643, 573                     |
| JCB             | 615                                                                       |
| Jensen          | 583, 563                                                                  |
| JVC             | 723, 722, 665, 670, 632, 603, 683                                         |
| Kawasho         | 615, 563, 583                                                             |
| Kaypani         | 646                                                                       |
| KEC             | 600, 586                                                                  |
| Kenwood         | 684                                                                       |
| Kloss           | 611                                                                       |
| Kloss Novabeam  | 612, 613                                                                  |
| KMC             | 619, 618                                                                  |

| TV Manufacturer | TV Device Code                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------|
| Konka           | 705                                                                                           |
| KTV             | 600, 641, 588, 576, 720, 715, 690, 694, 697                                                   |
| Linatech        | 592, 600                                                                                      |
| Lodgenet        | 711                                                                                           |
| Loewe           | 629                                                                                           |
| Logik           | 648                                                                                           |
| Luxman          | 637, 644                                                                                      |
| LXI             | 642, 712, 629, 643, 557, 721, 667, 717, 719                                                   |
| Macom           | 560                                                                                           |
| Magnasonis      | 685, 569, 712, 583, 629, 584, 587                                                             |
| Magnatron       | 208                                                                                           |
| Magnavox        | 609, 612, 613, 614, 629, 572, 578, 717, 694, 567, 574, 684, 557                               |
| Majestic        | 648                                                                                           |
| Marantz         | 684, 629                                                                                      |
| Matsui          | 620, 677                                                                                      |
| Megatron        | 685, 583, 563, 555, 797                                                                       |
| MEI             | 645, 588                                                                                      |
| Memorex         | 642, 648                                                                                      |
| MGA             | 583, 695, 684, 559, 563                                                                       |
| Midland         | 645, 643, 645                                                                                 |
| Minutz          | 624                                                                                           |
| Mitsubishi      | 583, 695, 633, 649, 644, 684, 559, 563, 557                                                   |
| Montgomery Ward | 624, 625, 583, 647, 648, 609, 614, 629, 634, 572, 582, 578, 684, 820, 584, 607, 717, 718, 694 |
| Motorola        | 673, 559, 569, 645, 635, 629, 615                                                             |
| MTC             | 583, 586, 589, 684, 631, 630, 637, 644, 563                                                   |
| Multitech       | 579                                                                                           |
| NAD             | 712, 563, 583                                                                                 |
| NEC             | 583, 570, 637, 644, 557                                                                       |
| Nikei           | 600                                                                                           |
| Nikko           | 587, 563, 583                                                                                 |
| NTC             | 587                                                                                           |
| Onking          | 600                                                                                           |

| TV Manufacturer | TV Device Code                                                  |
|-----------------|-----------------------------------------------------------------|
| Onwa            | 600                                                             |
| Optimus         | 642, 647, 600, 639, 641                                         |
| Optonica        | 647, 569                                                        |
| Orion           | 600, 584, 623                                                   |
| Panasonic       | 668, 659, 629, 645, 635, 636, 601, 650, 626, 629                |
| Philco          | 629, 609, 612, 613, 614, 583, 560, 578, 717, 684, 694           |
| Philiph         | 578, 609, 614                                                   |
| Philips         | 717, 629                                                        |
| Pilot           | 583, 563                                                        |
| Pioneer         | 688, 651, 640                                                   |
| Portland        | 583, 641, 693                                                   |
| Prism           | 645, 635                                                        |
| Proscan         | 583, 608, 640, 643, 634, 582, 592, 691, 558, 703, 562           |
| Proton          | 605, 622, 638, 641, 646, 622                                    |
| Pulsar          | 711                                                             |
| Quasar          | 645, 635, 636, 692, 715, 577, 668, 659, 650                     |
| Quelle          | 654                                                             |
| Radio Shack     | 647, 600, 639, 641, 637, 644, 557, 667, 720, 721, 695           |
| RBM             | 634                                                             |
| RCA             | 583, 558, 562, 592, 608, 640, 643, 634, 557, 582, 709, 689      |
| Realistic       | 642, 583, 563, 587                                              |
| Rhapsody        | 588                                                             |
| Runco           | 646                                                             |
| Sampo           | 646, 684, 563, 583                                              |
| Samsung         | 583, 684, 586, 589, 701, 699, 639, 641, 637, 644, 557, 694, 698 |
| Sanyo           | 642, 721, 597, 575, 571                                         |
| Schneider       | 583                                                             |
| Scimitsu        | 583                                                             |
| Scotch          | 583, 563, 646                                                   |
| Scott           | 720, 623, 584, 600, 641                                         |

| TV Manufacturer | TV Device Code                                                       |
|-----------------|----------------------------------------------------------------------|
| Sears           | 642, 584, 629, 643, 637, 644, 571, 573, 557, 575, 597                |
| Sharp           | 647, 641, 569, 662, 716, 718, 694                                    |
| Shogun          | 583, 563, 646                                                        |
| Signature 2000  | 648, 710, 716, 722, 583                                              |
| Simpson         | 578, 560                                                             |
| Sonic           | 588                                                                  |
| Sony            | 689, 594, 667, 669, 548, 663, 598, 615, 620, 606, 568                |
| Soundesign      | 600                                                                  |
| Spectracon      | 685, 637, 600, 583                                                   |
| SSS             | 583, 600, 557                                                        |
| Starlite        | 600, 583, 623                                                        |
| Supre-Macy      | 611                                                                  |
| Supreme         | 615                                                                  |
| Sylvania        | 717, 609, 612, 613, 614, 629, 578, 684                               |
| Symphonic       | 584, 600, 714, 690, 720, 690                                         |
| Tandberg        | 587                                                                  |
| Tandy           | 633, 657, 569, 658                                                   |
| Tatung          | 636, 635                                                             |
| Technics        | 645                                                                  |
| Technika        | 586, 602, 648                                                        |
| Technol ACE     | 584                                                                  |
| Techwood        | 637, 644                                                             |
| Teknika         | 557, 611, 583, 584, 559, 586, 589, 587, 602, 600, 644, 637, 648, 641 |
| Telefunken      | 610                                                                  |
| Tera            | 605, 622, 638                                                        |
| Thomson         | 596, 595                                                             |
| TMK             | 644, 637                                                             |
| Tocom           | 617, 616, 672                                                        |
| Toshiba         | 565, 642, 707, 586, 589, 585, 573, 714, 716                          |
| Tosonic         | 588                                                                  |
| Totevision      | 641                                                                  |
| Triumph         | 638                                                                  |
| Universal       | 672, 625, 607, 624                                                   |

| <b>TV Manufacturer</b> | <b>TV Device Code</b>                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------|
| Vector Research        | 684                                                                                           |
| Victor                 | 632                                                                                           |
| Video Concepts         | 633, 649, 583, 563                                                                            |
| Vidtech                | 583, 557, 717, 724, 563                                                                       |
| Video Tech             | 583, 557, 717, 724, 563                                                                       |
| Viking                 | 611                                                                                           |
| Wards                  | 624, 625, 583, 647, 648, 609, 614, 629, 634, 572, 582, 578, 684, 820, 584, 607, 717, 718, 694 |
| Yamaha                 | 583, 684, 661, 563                                                                            |
| Zenith                 | 648, 709, 710, 711, 724                                                                       |
| Zonda                  | 685                                                                                           |

### VCR Device Codes

| <b>VCR Manufacturer</b> | <b>VCR Device Code</b>                           |
|-------------------------|--------------------------------------------------|
| Admiral                 | 764, 761, 749, 850, 747, 746                     |
| Adventura               | 821                                              |
| Aiko                    | 783                                              |
| Aiwa                    | 834, 750, 821, 820, 808, 796, 546, 544, 837, 549 |
| Akai                    | 780, 744, 743, 787, 762, 849, 848, 847, 846      |
| Alba                    | 811                                              |
| Allegro                 | 850                                              |
| American High           | 827, 771, 798                                    |
| Asha                    | 745                                              |
| Audio Dynamics          | 767, 768, 823, 733                               |
| Audiovox                | 773, 775                                         |
| Beaumont                | 745                                              |
| Bell and Howell         | 850                                              |
| Blaupunkt               | 748, 753, 807, 806                               |
| Brooksonic              | 785, 810, 761, 764, 549, 810                     |
| Calix                   | 773                                              |
| Candle                  | 773, 775, 823                                    |
| Canon                   | 828, 827                                         |
| Capehart                | 850                                              |
| Carver                  | 771                                              |
| CCE                     | 783                                              |

| <b>VCR Manufacturer</b> | <b>VCR Device Code</b>                                                         |
|-------------------------|--------------------------------------------------------------------------------|
| Citizen                 | 785                                                                            |
| Colortyme               | 823                                                                            |
| Colt                    | 772                                                                            |
| Consonic                | 208                                                                            |
| Craig                   | 731, 818, 745                                                                  |
| Curtis Mathes           | 827                                                                            |
| Cybernex                | 806, 745                                                                       |
| Daewoo                  | 783, 545                                                                       |
| Daytron                 | 850                                                                            |
| DBX                     | 767, 768                                                                       |
| Dishnet                 | 825                                                                            |
| Dynatech                | 820, 821                                                                       |
| Electrohome             | 745, 773, 835                                                                  |
| Electroponic            | 773                                                                            |
| Emerex                  | 732                                                                            |
| Emerson                 | 803, 814, 820, 821, 785, 773, 760, 764, 741, 830, 829, 847, 846, 761, 734, 765 |
| Firstline               | 843                                                                            |
| Fisher                  | 774, 736, 731, 833                                                             |
| Fuji                    | 798, 823, 753, 732, 748                                                        |
| Funai                   | 820, 821                                                                       |
| Garrard                 | 821                                                                            |
| GE                      | 812, 791, 547, 817, 768, 767, 751, 750, 749, 827, 749, 817                     |
| Gemini                  | 772, 785, 767                                                                  |
| Go Video                | 745, 756, 781, 842                                                             |
| Goldstar                | 823, 775, 773, 552                                                             |
| Gradiente               | 821                                                                            |
| Griswold                | 841                                                                            |
| Harman Kardon           | 775, 813                                                                       |
| Harwood                 | 772, 734                                                                       |
| Havard                  | 772                                                                            |
| Headquarter             | 739                                                                            |
| Hinari                  | 846                                                                            |
| Hi-Q                    | 731                                                                            |
| Hitachi                 | 820, 737, 735, 821, 779, 841, 849, 848, 827, 750, 751, 827, 755                |
| Instant Replay          | 827, 798                                                                       |
| Inteq                   | 773                                                                            |

| VCR Manufacturer | VCR Device Code                                            |
|------------------|------------------------------------------------------------|
| J.C. Penney      | 745, 775, 740, 737, 827                                    |
| JCL              | 827                                                        |
| Jensen           | 849, 848                                                   |
| JVC              | 732, 849, 848, 838, 551, 769, 733, 788, 758, 815           |
| KASH N GOLD LTD  | 553                                                        |
| KEC              | 773, 783                                                   |
| Kenwood          | 739, 849, 848, 733                                         |
| KLH              | 772                                                        |
| Kodak            | 798, 827, 773                                              |
| Linatech         | 841                                                        |
| Lloyd            | 821, 820                                                   |
| Logik            | 772                                                        |
| LXI              | 773                                                        |
| LXI Combo        | 796                                                        |
| Magnasonic       | 783, 745, 773, 772, 767                                    |
| Magnavox         | 770, 754, 827, 771                                         |
| Magnin           | 745                                                        |
| Marantz          | 775, 771, 827                                              |
| Marta            | 773                                                        |
| Matsushita       | 798, 827, 771                                              |
| MEI              | 827                                                        |
| Memorex          | 755, 773, 731, 833, 808, 850, 827, 746, 747, 821, 820, 832 |
| MGA              | 835, 847, 846, 827                                         |
| Minolta          | 737, 841                                                   |
| Mitsubishi       | 813, 784, 762, 835, 847, 846, 827                          |
| Montgomery Ward  | 765, 772, 731, 737, 745, 827, 746, 747, 754, 821, 820      |
| MTC              | 745, 820, 821                                              |
| Multitech        | 772, 820, 821                                              |
| NAD              | 839, 783                                                   |
| NEC              | 733, 730, 775, 740, 849, 848, 845, 811, 552                |
| Neckerman        | 760                                                        |
| Nikko            | 773                                                        |
| Nikon            | 753                                                        |
| Noblex           | 745                                                        |

| VCR Manufacturer | VCR Device Code                                                      |
|------------------|----------------------------------------------------------------------|
| Optimus          | 789, 820, 774, 773, 739, 731, 821, 745, 833, 747, 746, 827           |
| Optonica         | 742, 747, 746                                                        |
| Orion            | 785, 830, 814                                                        |
| Panasonic        | 789, 798, 799, 819, 816, 757, 777, 827, 746, 782                     |
| Pentax           | 737, 841, 750, 751                                                   |
| Philco           | 827                                                                  |
| Philips          | 844, 770, 771, 827                                                   |
| Pilot            | 773                                                                  |
| Pioneer          | 839, 733                                                             |
| Prediwave        | 160, 836                                                             |
| Primestar        | 812                                                                  |
| Proscan          | 749                                                                  |
| Protec           | 772                                                                  |
| Pulsar           | 850                                                                  |
| Quarter          | 739                                                                  |
| Quartz           | 739                                                                  |
| Quasar           | 556, 826, 789, 827, 778, 799, 819, 816                               |
| Radioshack       | 798, 821, 746, 827, 739, 745, 773                                    |
| Radix            | 773                                                                  |
| Randex           | 773                                                                  |
| RCA              | 812, 737, 841, 547, 807, 792, 768, 767, 754, 777, 751, 827, 749, 750 |
| Realistic        | 820, 774, 773, 739, 731, 745, 833, 827, 746, 747, 821, 820           |
| Ricoh            | 753                                                                  |
| Runco            | 850                                                                  |
| Salora           | 813                                                                  |
| Samsung          | 745, 744, 554, 840                                                   |
| Sansui           | 818, 849, 848, 845, 733                                              |
| Sanyo            | 833, 739, 731                                                        |
| Schneider        | 738                                                                  |
| Scott            | 765, 764, 761                                                        |
| Sears            | 804, 827, 774, 773, 736, 739, 731, 737, 833, 841                     |
| Sharp            | 795, 747, 746                                                        |
| Shintom          | 772                                                                  |
| Shogun           | 745, 806                                                             |

| VCR Manufacturer   | VCR Device Code                                       |
|--------------------|-------------------------------------------------------|
| Signature          | 821                                                   |
| Singer             | 745, 773, 798, 772                                    |
| Sony               | 822, 827, 732, 748, 738, 753, 752, 800, 793, 759, 776 |
| STS                | 737                                                   |
| Sylvania           | 827, 835                                              |
| Symphonic          | 820, 821                                              |
| Tandy              | 820, 821                                              |
| Tashiko            | 785                                                   |
| Tatung             | 848, 849                                              |
| Teac               | 849, 848, 821, 820                                    |
| Technics           | 827                                                   |
| Teknika            | 773, 784, 831, 827, 821, 820                          |
| TIVO               | 844                                                   |
| TMK                | 741                                                   |
| Toshiba            | 765, 335, 774, 835                                    |
| Totevision         | 773, 745                                              |
| Unitech            | 745                                                   |
| Vector Research    | 775, 740                                              |
| Victor             | 838, 733                                              |
| Video Concepts     | 740, 847, 846                                         |
| Videosonic         | 745                                                   |
| WEB TV             | 825                                                   |
| White Westinghouse | 821                                                   |
| XR-1000            | 798, 827, 745, 772                                    |
| Yamaha             | 843, 775, 849, 848                                    |
| Zenith             | 773, 748, 738, 753, 797, 850                          |
| Zonda              | 773                                                   |

**Note for TV/VCR Combination Units ("Combos")**

*On most "combo" units, the power, channel, and tape functions operate when the VCR is selected as the source, and the volume when the TV selected as the source. However, this will vary from unit to unit. You will need to experiment to see how the buttons function for your particular system.*

## Cable Box Device Codes

| Box Manufacturer      | Cable Box Device Code                                 |
|-----------------------|-------------------------------------------------------|
| ABC                   | 227, 231, 239                                         |
| Allegro               | 249, 243, 208, 797                                    |
| Antronix              | 243                                                   |
| Archer                | 208, 259, 243, 281                                    |
| AT&T                  | 238                                                   |
| Cabletenna            | 259                                                   |
| Cableview             | 259                                                   |
| Century               | 208                                                   |
| Citizen               | 208, 249                                              |
| Clear Max             | 702                                                   |
| Comcast               | 673                                                   |
| Comtronics            | 228, 204                                              |
| Consonic              | 208                                                   |
| Cox                   | 297                                                   |
| CTX                   | 208                                                   |
| Digital Entertainment | 501                                                   |
| Eagle Comtronics      | 228                                                   |
| Eastern               | 235                                                   |
| Electricord           | 211                                                   |
| Emerson               | 295                                                   |
| Everquest             | 226, 228                                              |
| Explorer              | 297                                                   |
| Explorer 2000         | 297                                                   |
| Garrard               | 208                                                   |
| GC Electronics        | 215                                                   |
| GE                    | 266, 272                                              |
| Gemini                | 216, 223, 219, 226, 299, 192                          |
| General Instrument    | 231, 229, 226, 196, 195, 187, 192, 250, 282, 238, 194 |
| Goldstar              | 228                                                   |
| Hamilton              | 188, 189, 198                                         |
| Hamlin                | 236, 240, 191, 202, 201, 277, 230, 188, 189, 198      |
| Harmon Kardon         | 198                                                   |
| Hitachi               | 231                                                   |
| Hitex                 | 227                                                   |

| Box Manufacturer   | Cable Box Device Code                                 |
|--------------------|-------------------------------------------------------|
| Jasco              | 208                                                   |
| Jerrold            | 231, 229, 226, 196, 195, 187, 192, 250, 282, 238, 194 |
| Kingston           | 208                                                   |
| Macom              | 256                                                   |
| Magnatron          | 208                                                   |
| Media One          | 673                                                   |
| Memorex            | 797                                                   |
| Motorola Digital   | 679, 673                                              |
| Movie Time         | 211, 207, 199                                         |
| NovaPlex           | 222                                                   |
| Novavision         | 233, 239                                              |
| NSC                | 207, 199                                              |
| Oak                | 232, 227, 206                                         |
| Omega              | 226, 228                                              |
| Panasonic          | 197, 210, 294                                         |
| Paragon            | 797                                                   |
| Philips            | 193, 204, 258, 251, 252, 260, 276                     |
| Pioneer            | 214, 220, 186                                         |
| Popular Mech.      | 471                                                   |
| Primestar          | 194                                                   |
| Pulsar             | 797                                                   |
| RCA                | 197                                                   |
| Regal              | 236, 202, 201, 189, 198                               |
| Regency            | 235                                                   |
| Rembrandt          | 219                                                   |
| Runco              | 797                                                   |
| Samsung            | 228                                                   |
| Scientific Atlanta | 233, 239, 253, 224                                    |
| Signal             | 228                                                   |
| Signature          | 231                                                   |
| SL Marx            | 228                                                   |
| Sony               | 234                                                   |
| Sprucer            | 197, 200                                              |
| Standard Compnt    | 217                                                   |
| Starcom            | 226, 187, 192                                         |
| Stargate           | 228, 226, 298                                         |
| Starquest          | 226                                                   |

| Box Manufacturer  | Cable Box Device Code                       |
|-------------------|---------------------------------------------|
| Sylvania          | 237                                         |
| Tandy             | 203                                         |
| Teknika           | 255                                         |
| Telecaption       | 212                                         |
| Teleview          | 228                                         |
| Texscan           | 237, 300                                    |
| Time Warner       | 225                                         |
| Timeless Products | 213                                         |
| Tocom             | 190                                         |
| Toshiba           | 797                                         |
| Tusa              | 226                                         |
| TV86              | 296                                         |
| Unika             | 208, 259, 243                               |
| United Artists    | 227                                         |
| United Cable      | 206                                         |
| Universal         | 211, 230, 294, 218, 208, 259, 243, 281, 277 |
| U.S. West         | 813                                         |
| Video Way         | 265                                         |
| View Master       | 278                                         |
| Viewstar          | 204, 209, 205, 203                          |
| Yamaha            | 185                                         |
| West              | 208                                         |
| Zenith            | 221, 247, 298                               |

### DVD Player Device Codes

| DVD Manufacturer | DVD Device Code    |
|------------------|--------------------|
| Aiwa             | 465                |
| Apex             | 455, 467, 449, 437 |
| California Audio | 445                |
| Cary             | 459                |
| Concept          | 460                |
| Denon            | 472, 439, 444      |
| Fisher           | 445                |
| GE               | 441, 442           |
| Goldstar         | 475                |
| Harmon Kardon    | 468                |
| Hitachi          | 447                |

| <b>DVD Manufacturer</b> | <b>DVD Device Code</b>            |
|-------------------------|-----------------------------------|
| JVC                     | 454, 461                          |
| Kenwood                 | 480                               |
| KLH                     | 448                               |
| Kyocera                 | 439                               |
| Magnavox                | 435, 478                          |
| Mitsubishi              | 478                               |
| Montgomer Ward          | 820                               |
| Myryad                  | 466                               |
| NAD                     | 478                               |
| Optimus                 | 474                               |
| Oritron                 | 457                               |
| Panasonic               | 452, 439, 445, 481, 482, 483, 479 |
| Philips                 | 435, 463                          |
| Pioneer                 | 477, 478, 453                     |
| Popular Mech            | 471                               |
| Proscan                 | 450, 441, 442                     |
| Quasar                  | 445                               |
| RCA                     | 450, 441, 442, 440                |
| Realistic               | 474                               |
| Samsung                 | 464                               |
| Sanyo                   | 476, 436                          |
| Sharp                   | 480                               |
| Sony                    | 443                               |
| Teac                    | 438                               |
| Technics                | 445, 483, 479                     |
| Theta-Digital           | 435                               |
| Thompson                | 441, 442                          |
| Toshiba                 | 456, 451, 477, 480                |
| Yamaha                  | 462, 473, 471, 482                |
| Zenith                  | 475                               |

## **DSS & Satellite Receiver Device Codes**

| <b>DSS Manufacturer</b> | <b>DSS/SAT Device Code</b> |
|-------------------------|----------------------------|
| Digital Entertainment   | 501                        |
| DishNet                 | 502, 825                   |
| General Instrument      | 506, 194                   |
| Hitachi                 | 499                        |
| Hughes                  | 497, 493                   |
| Magnavox                | 505, 504                   |
| Mitsubishi              | 494                        |
| Montgomery Ward         | 820                        |
| Optimus                 | 504                        |
| Panasonic               | 495                        |
| Philips                 | 508                        |
| Primestar               | 194                        |
| RCA                     | 494, 498, 503, 496, 492    |
| Samsung                 | 509                        |
| Sony                    | 507, 857                   |
| Toshiba                 | 500, 496                   |
| Uniden                  | 505, 504                   |
| Yamaha                  | 185                        |

## **Audio Receiver Device Codes**

| <b>Audio Manufacturer</b> | <b>Receiver Device Code</b>             |
|---------------------------|-----------------------------------------|
| ADC                       | 129                                     |
| Adcom                     | 9                                       |
| Aiwa                      | 181, 109, 101, 53, 52, 182, 54, 64, 158 |
| Akai                      | 72                                      |
| AMC                       | 158                                     |
| Anam                      | 152                                     |
| Angstrom                  | 151                                     |
| Arcam                     | 150                                     |
| Audio Access              | 149                                     |
| Audio Alchemy             | 148, 147                                |
| Audio Ease                | 146                                     |
| Audio Matrix              | 145                                     |

| Audio Manufacturer | Receiver Device Code                             |
|--------------------|--------------------------------------------------|
| Audio Technica     | 28                                               |
| B & K              | 144, 143                                         |
| Bose               | 77, 109, 18                                      |
| Carver             | 104                                              |
| Casio              | 74                                               |
| Chiro              | 142                                              |
| Cinema Sound       | 28                                               |
| Citation           | 128                                              |
| Clairtone          | 103                                              |
| Clarion            | 103                                              |
| Curtis Mathes      | 74                                               |
| Denon              | 38, 55, 61, 62, 46, 70, 60, 59, 58, 57           |
| Enlightened Audio  | 140                                              |
| Fisher             | 71, 104                                          |
| Fosgate            | 153                                              |
| GE                 | 138                                              |
| Harmon Kardon      | 22, 13, 32, 17, 19                               |
| Hitachi            | 89                                               |
| Inkel              | 43                                               |
| JBL                | 22                                               |
| JC Penny           | 45, 74                                           |
| Jensen             | 137                                              |
| JVC                | 27, 123, 112, 100, 67                            |
| Kenwood            | 80, 117, 116, 104, 103, 102, 113, 43, 44, 63, 12 |
| Kinergetics        | 136                                              |
| Koss               | 45                                               |
| Krell              | 165                                              |
| Kyocera            | 129                                              |
| Lexicon            | 135, 179, 134, 133                               |
| LKI                | 74                                               |
| Luxman             | 132, 132, 130, 139                               |
| LXI                | 74                                               |
| Magnavox           | 83, 115                                          |
| Marantz            | 14, 20, 23, 169, 15                              |
| Mcintosh           | 141                                              |
| MCS                | 74                                               |
| Meridian           | 177, 176, 175                                    |

| Audio Manufacturer | Receiver Device Code                              |
|--------------------|---------------------------------------------------|
| Mitsubishi         | 4, 21                                             |
| Mondial            | 174, 173, 172, 171, 170                           |
| Montgomery Ward    | 820, 104                                          |
| Myryad             | 5, 39                                             |
| NAD                | 157                                               |
| Nakamichi          | 124                                               |
| NEC                | 107                                               |
| Onkyo              | 26, 37, 65, 10                                    |
| Optimus            | 86, 72, 180                                       |
| Panasonic          | 8, 88, 50, 106, 47                                |
| Parasound          | 167, 168                                          |
| Philips            | 36, 52                                            |
| Pioneer            | 35, 91, 90, 120, 87, 78, 73, 122, 114, 127, 85    |
| Proscan            | 550                                               |
| Quasar             | 8                                                 |
| RCA                | 34, 33, 8, 83                                     |
| Realistic          | 76, 75                                            |
| Rotel              | 164, 166, 154                                     |
| Sansui             | 40, 11                                            |
| Sanyo              | 71, 82                                            |
| Sears              | 74                                                |
| Sharp              | 126, 119, 103                                     |
| Sherwood           | 1, 7, 28                                          |
| Sony               | 2, 91, 84, 125, 99, 41, 69, 66, 90                |
| Soundesign         | 178                                               |
| Soundstream        | 162                                               |
| SSI                | 161                                               |
| Sumo               | 160                                               |
| Taekwang           | 72                                                |
| Teac               | 40, 93, 98, 124, 48, 42, 414                      |
| Technics           | 47, 49, 96, 95, 30, 56, 105, 106, 121, 107        |
| Theta Digital      | 159                                               |
| Toshiba            | 81, 111                                           |
| Wards              | 820, 104                                          |
| Yamaha             | 97, 94, 29, 79, 110, 108, 51, 68, 21, 473, 25, 16 |
| Zenith             | 118                                               |

Notes for audio, tape, and CD components:

Combination units require that the remote control be set up separately for the receiver, CD, and tape player. For full functionality, you will need to program the Audio/CD/Tape codes from the respective tables.

Rarely used audio, tape, and CD buttons may not be specified on the remote control. When this occurs, these buttons will have been "mapped" to other remote control keys. You may need to experiment with the remote control to see which buttons are so mapped. In general, you will find these buttons are most likely mapped to buttons A-F.

## CD Player Device Codes

| CD Manufacturer | CD Player Device Code                                                |
|-----------------|----------------------------------------------------------------------|
| Adcom           | 350, 377                                                             |
| Aiwa            | 347, 374, 312, 403, 375, 376                                         |
| Akai            | 320, 417                                                             |
| AMC             | 388                                                                  |
| Audio Access    | 340                                                                  |
| Audio Technica  | 361                                                                  |
| BSR             | 345, 355                                                             |
| Carrera         | 355                                                                  |
| Carver          | 343, 373, 382, 393, 318, 336, 323, 331, 330                          |
| Cary            | 362                                                                  |
| Crown           | 351                                                                  |
| Daewoo          | 305                                                                  |
| Denon           | 319                                                                  |
| Emerson         | 429                                                                  |
| Escient         | 303                                                                  |
| Fisher          | 432, 343, 336, 382                                                   |
| GE              | 768, 817, 547, 548, 812, 791, 441, 442, 667, 692, 305, 704, 138, 666 |
| Genexxa         | 313, 332                                                             |
| Goldstar        | 366                                                                  |
| Haitai          | 308                                                                  |
| Harmon Kardon   | 385, 352, 386, 349, 372                                              |

| CD Manufacturer | CD Player Device Code                                                                   |
|-----------------|-----------------------------------------------------------------------------------------|
| Hitachi         | 581, 827, 750, 751, 779, 821, 820, 659, 679, 499, 89, 724, 694, 724, 694, 708, 333, 350 |
| Inkel           | 327, 328                                                                                |
| JCPenny         | 321, 353, 310                                                                           |
| Jensen          | 426                                                                                     |
| JVC             | 665, 461, 551, 360, 123, 112, 100, 67, 420, 419, 538, 540, 722, 723, 383, 769           |
| Kardon          | 352, 385, 386, 372                                                                      |
| Kenwood         | 418, 335, 363, 357, 381, 369, 342, 329, 684, 382                                        |
| Koss            | 353                                                                                     |
| Krell           | 408                                                                                     |
| KTV             | 305                                                                                     |
| Kyocera         | 333                                                                                     |
| Lotte           | 332                                                                                     |
| Luxman          | 317, 367, 371, 378                                                                      |
| LXI             | 425, 347                                                                                |
| Magnavox        | 415, 427, 305                                                                           |
| Marantz         | 423, 368, 354, 367, 396, 398                                                            |
| MCIntosh        | 384                                                                                     |
| MCS             | 310, 321                                                                                |
| Memorex         | 313                                                                                     |
| Mitsubishi      | 305                                                                                     |
| Mitsumi         | 364                                                                                     |
| Montgomery Ward | 820, 305, 382                                                                           |
| Myryad          | 315, 309                                                                                |
| NAD             | 333, 373, 400                                                                           |
| Nakamichi       | 401, 423, 387, 307                                                                      |
| NEC             | 321, 377, 305                                                                           |
| Nikko           | 361                                                                                     |
| Onkyo           | 379, 346, 348, 383, 392                                                                 |
| Optimus         | 821, 820, 789, 474, 86, 72, 313, 343, 355, 325, 314, 320, 180                           |
| Panasonic       | 650, 819, 659, 668, 799, 798, 789, 294, 439, 445, 481, 482, 483, 479, 88, 50            |
| Parasound       | 409                                                                                     |

| CD Manufacturer | CD Player Device Code                                                           |
|-----------------|---------------------------------------------------------------------------------|
| Phillips        | 415, 399                                                                        |
| Pioneer         | 313, 334, 365, 380, 356, 390, 389                                               |
| Portland        | 305                                                                             |
| Procede         | 407                                                                             |
| Proscan         | 703, 562                                                                        |
| Proton          | 302, 304                                                                        |
| Quasar          | 445, 715, 692, 556, 826                                                         |
| RCA             | 751, 777, 562, 558, 754, 767, 768, 34, 33, 8, 792, 807, 817, 809, 547, 812, 313 |
| RCX             | 382                                                                             |
| Realistic       | 350, 343, 354, 373, 332, 329, 403                                               |
| Rotel           | 416                                                                             |
| Samsung         | 305                                                                             |
| Sansui          | 391, 338, 397, 414, 423                                                         |
| Sanyo           | 343, 432                                                                        |
| Scott           | 332                                                                             |
| Sears           | 571, 573, 557, 575, 597, 827, 804, 74, 425                                      |
| Sharp           | 400, 354, 431                                                                   |
| Sherwood        | 394, 324, 354, 371, 314, 306, 316, 340                                          |
| Sony            | 663, 548, 669, 800, 793, 443, 91, 84, 125, 99, 41, 69, 66, 529, 667, 689, 395   |
| Soundesign      | 406                                                                             |
| Sylvania        | 305                                                                             |
| Symphonic       | 359                                                                             |
| Taekwang        | 320                                                                             |
| Tandy           | 313                                                                             |
| Teac            | 380, 344, 354, 359, 337, 311, 409, 414, 432, 430                                |
| Technics        | 422, 421, 405                                                                   |
| Techwood        | 367                                                                             |
| Theta Digital   | 408                                                                             |
| Toshiba         | 373, 322, 400, 326                                                              |
| Vector Research | 366                                                                             |
| Wards           | 820, 305, 382                                                                   |
| Yamaha          | 413, 412, 341, 361, 358, 370                                                    |

## Tape & Cassette Player Device Codes

| Drive Manufacturer | Tape and Cassette Device Code |
|--------------------|-------------------------------|
| Aiwa               | 525, 534, 535                 |
| Denon              | 522                           |
| Fisher             | 531                           |
| Harmon-Kardon      | 513                           |
| JVC                | 538, 540                      |
| Kenwood            | 523, 521                      |
| Magnavox           | 512                           |
| Marantz            | 512                           |
| Montgomery Ward    | 820                           |
| Nakamichi          | 524                           |
| Onkyo              | 533, 519, 517                 |
| Panasonic          | 516                           |
| Philips            | 512, 536                      |
| Pioneer            | 539, 532                      |
| Proton             | 514                           |
| RCA                | 527, 530                      |
| Runco              | 541                           |
| Sansui             | 524, 526                      |
| Sharp              | 522                           |
| Sherwood           | 543                           |
| Sony               | 529                           |
| Teac               | 518, 537                      |
| Technics           | 528, 516                      |
| Yamaha             | 520, 510                      |

### Notes for audio, tape, and CD components:

Combination units require that the remote control be set up separately for the receiver, CD, and tape player. For full functionality, you will need to program the Audio/CD/Tape codes from the respective tables.

Rarely used audio, tape, and CD buttons may not be specified on the remote control. When this occurs, these buttons will have been "mapped" to other remote control keys. You may need to experiment with the remote control to see which buttons are so mapped. In general, you will find these buttons are most likely mapped to buttons A-F.

## Miscellaneous

| Miscellaneous Device    | Device Code   |
|-------------------------|---------------|
| Escient CD Organizer    | 303           |
| Lutron Light Controller | 542           |
| Panasonic Hard Disk     | 782           |
| Philips CDR             | 399           |
| Philips PVR             | 844           |
| Predwave PVR            | 836           |
| Replay TV               | 798, 782, 827 |
| Runco                   | 31, 541       |
| Sony Video Projector    | 663           |
| Sony PVR                | 759, 776      |
| TIVO                    | 759, 776, 844 |
| WebTV                   | 825           |
| X10                     | 511           |

### **Note for TV/VCR Combination Units (“Combos”)**

*On most “combo” units, the power, channel, and tape functions operate when the VCR is selected as the source, and the volume when the TV selected as the source. However, this will vary from unit to unit. You will need to experiment to see how the buttons function for your particular system.*

## INDEX

|                                |    |                              |    |
|--------------------------------|----|------------------------------|----|
| adjust LCD Contrast .....      | 17 | macro setup .....            | 9  |
| auto-search .....              | 12 | memo recorder .....          | 8  |
| backlight time .....           | 17 | multi-string macro .....     | 10 |
| battery charger .....          | 17 | Priority Press .....         | 8  |
| battery installation .....     | 18 | program codes .....          | 19 |
| channel scan .....             | 11 | repeat .....                 | 17 |
| Charger Cradle .....           | 17 | reset .....                  | 17 |
| contrast .....                 | 17 | RF Finder .....              | 9  |
| device codes .....             | 19 | scan .....                   | 11 |
| device substitution .....      | 13 | search for device code ..... | 12 |
| display device code .....      | 13 | set-up .....                 | 6  |
| entertainment system .....     | 6  | setting preferences .....    | 16 |
| favorite channel buttons ..... | 9  | shift .....                  | 11 |
| LCD contrast .....             | 17 | sounds .....                 | 17 |
| LCD screen .....               | 15 | substitute devices .....     | 13 |
| learning codes .....           | 13 | wake time .....              | 17 |
| lost remote finder .....       | 17 |                              |    |
| macro .....                    | 9  |                              |    |

## **WARRANTY, TECHNICAL SUPPORT, AND COPYRIGHT INFORMATION**

### **Kash N Gold Ltd.**

Sole Distributors For TELEMANIA™ Products

### **Limited Warranty**

Kash N Gold warrants to the original purchaser that this product is free from defective materials and workmanship for a period of 1 year from date of original purchase.

Should a failure occur in normal usage during the 1 year warranty period. Kash N Gold will repair or, in its discretion, replace this product without charge (except for a \$10 charge to cover: handling, packing, and return postage or freight). This warranty excludes (A) Damages due to misuse, negligence abuse or accidents. (B) Repairs by persons not authorized by Kash N Gold and (C) AC cords, or other accessories where applicable (D) Installation, improper maintenance or commercial use (E) Cracked or broken cabinets (F) Acts of GOD.

When returning this product (A) Enclose a copy of your sales slip to verify warranty service. (B) Include explanation of defect problem (C) Enclose check or money order for \$10 payable to Kash N Gold Ltd. (D) Forward prepaid and insured.

All products sent after the warranty period or without proof of date of sale will be serviced on an out-of-warranty basis.

This warranty is valid only in the United States, and does not extend to owners of the product subsequent to the original purchaser.

In the United States, this warranty gives you specific legal, rights, and your rights may vary from state to state.

#### **Kash N Gold Ltd.**

1 Trade Zone Court, Ronkonkoma,  
NY 11779, U.S.A.  
1-800-354-8785

In accordance with "Moss Magnuson warranty act" of July 10, 1975 this is termed a "Limited" warranty, which in no way compromises Kash N Gold high standards of quality and workmanship.

InVoca is a trademark of Kash'N Gold Ltd.

© 2002 Innotech Systems Inc. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, or stored in any retrieval system without the prior written permission of Innotech Systems Inc.

Innotech Systems Inc. is a registered trademark of Innotech Systems Inc. Priority Press and Fast Volume are trademarks of Innotech Systems Inc. All other marks are the property of their respective owners.

For support and service, visit the **inVoca** Web site at [www.invoca.com](http://www.invoca.com) or  
call  
**1 (800) 200-7700**

Requires 4 AA batteries (Not Included)  
USE RECHARGEABLE NICKEL-CADMIUM (Ni-Cd) or  
Nickel-Metal Hydride (Ni-MH) BATTERIES ONLY  
*Use of standard alkaline batteries with the charging cradle may damage inVoca.*

Telemania Model: **inVoca** Touchscreen Remote

This device complies with part 15 of the FCC rules.  
Operation is subject to the following two conditions:  
(1) This device may not cause harmful  
interference, and (2) this device must accept any  
interference received, including interference that  
may cause undesired operation.

TELEMANIA™

**inVoca**

Touchscreen Remote



TESTED TO COMPLY WITH  
FCC STANDARDS

FOR HOME OR OFFICE USE

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.