

# Save Code list for future reference Refer to the setup procedure below and look up the 3 digit code for your brand of TV, VCR, etc., from the list below. Refer to the Owner's Manual for your remote for more information.

**Direct Code Entry**  
Note, when all codes under a Brand have been searched the red indicator flashes rapidly for 3 seconds.

- Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks, then stays lit.
- Enter the 3 digit code from the code tables. Note: after a valid code entry, the red indicator turns off. For an invalid code, the red indicator flashes.
- With your device on, press **CHANNEL UP**. If the device responds, no further programming is required. Note: If some buttons do not operate your equipment, try one of the other codes for your brand.

**Code Search (by Brand)**  
Lets you search for a code for a specific Brand within the Code Library for a particular manufacturer.

- Turn on the device (TV, VCR, etc.) to be controlled.
- Press and hold the **CODE SEARCH** button until the red indicator remains on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks off once.
- Press and release the numeric button (0-9) corresponding to desired Manufacturer (see table below). Note, pressing "0" performs a full library search same as Complete Library Code Search Method.
- Press the **CHANNEL UP** button (or **POWER** or **PLAY** (VCR only)) repeatedly until the device to be controlled changes channel.
- Press and release **MUTE** to install the code.

**TV**  
Most users will want to store VCR codes under the **VCR** button, Cable codes under **Cable**, etc. If you want to store a VCR code under **Cable**, etc., first follow the procedure for Direct Code Entry and press **Cable** in step 2 of Direct Code Entry, then enter ANY VCR code in step 3 of Direct Code Entry. Then follow the steps above for Brand Search or Complete Search.

**Complete Library Code Search**  
If after trying "Direct Code Entry" or "Code Search (by Brand)" your product does not respond, or if your brand is not listed, try doing a complete search of the code library for your code by following the steps below.

- Manually turn on the device (TV, VCR, etc.) to be controlled.
- Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.
- Press and release the desired Mode button (**TV, VCR, etc.**). The red indicator blinks, then stays lit.
- Press the **CHANNEL UP** button repeatedly (up to 300 times) until the device to be controlled changes channel. The red indicator blinks, then stays lit.
- Press and release **MUTE** to install the code.

**Brand Search Table**  
Look up your brand in the appropriate column (TV, VCR, etc.) in the table below. Look for the digit (1, 2, 3, etc.) that applies to your brand, and enter it in step 4 of "Code Search (by Brand)."

DIGIT	TV	VCR/DVD	CABLE/SAT
1	PHILIPS, PHILCO	PHILIPS, PHILCO	PHILIPS, PHILCO
2	SONY, AKAI, PANASONIC, SHARP, TOSHIBA, JVC, DAEWOO	SONY, AKAI, PANASONIC, SHARP, TOSHIBA, JVC, DAEWOO	PACE, ECHOSTAR
3	THOMSON, BRANDT	THOMSON, BRANDT	THOMSON, UNIVERSUM, LASAT
4	FERGUSON, BAIRD, TELEFUNKEN, SABA, NORMENDE	FERGUSON, TELEFUNKEN, SABA, NORMENDE	FERGUSON, TELEFUNKEN, SABA, NORMENDE
5	GRUNDIG, BLAUPUNKT	GRUNDIG, BLAUPUNKT	GRUNDIG
6	NOKIA, FINLUX, ITT, LUXOR, DANTAX, BEKO, PROSONIC	NOKIA, FINLUX, ITT	NOKIA, FINLUX, ITT, HIRSCHMANN

BPL	.....	120
BRANDT	.....	022 036 045
	.....	046 126 127 139
BRION VEGA	.....	000 051 169
BRITANNIA	.....	003
BRUNS	.....	000 007
BSR	.....	026 131
BTC	.....	011
BUSH	.....	009 011 019 024 025 027
	.....	028 032 039 051 062 068 107
	.....	115 120 131 132 139 167 169 171
CAPSONIC	.....	002
CARREFOUR	.....	027
CASCADE	.....	009
CATHAY	.....	051 169
CENTRUM	.....	168 171
CENTURION	.....	051 169
CENTURY	.....	000
CGE	.....	043 053 129 131
CIMLINE	.....	009 028
CITY	.....	009
CLARIVOX	.....	037 169
CLATRONIC	.....	002 003 009 011
	.....	026 157
ALLSTAR	.....	051
AMPLIVISION	.....	003
AMSTRAD	.....	002 009 011 013 030
	.....	068 069 071 074 108 123
ANAM	.....	009 065 109
ANGLO	.....	009
ANITECH	.....	002 009 043 109
ANSONIC	.....	009 014
ARCAM DELTA	.....	003
ARC EN CIEL	.....	045 126 139
ARISTONA	.....	051 169
ARTHUR MARTIN	.....	158
ASA	.....	000 016 017 018 021 110
ASBERG	.....	043 051
ASTRA	.....	009
ASUKA	.....	002 003 011
ATLANTIC	.....	003 051 157 169
ATORI	.....	009
AUDIOSONIC	.....	003 009 011
	.....	051 139 157 169
AUDIOTON	.....	003
AUSIND	.....	043
AUTOVOX	.....	000 002 003
	.....	043 101 125 157
BAIRD	.....	111 139
BANG & OLUFSON	.....	000 199
BASIC LINE	.....	009 011 051
BASTIDE	.....	003
BAUR	.....	076 118 132 141 169
BEKO	.....	007 034 042 083 216
BEON	.....	051 169
BEST	.....	113
BESTAR	.....	051 115
BINATONE	.....	003
BLACK DIAMOND	.....	171
BLACK STAR	.....	129
BLAUPUNKT	.....	008 022 100
	.....	112 117 135 202
BLUE SKY	.....	011
BLUES STAR	.....	120
BONDSTEC	.....	129
BOOTS	.....	003 025

DUAL	.....	002 003 009 038 042 044
	.....	047 061 063 067 068 087 089
	.....	103 107 115 125 126 131 139
BRION VEGA	.....	000 051 169
BRITANNIA	.....	003
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NORDMENDE	232 293
	294 303 305
OCEANIC	231 232 240
OKANO	233 300
ORION	233 234 246
	248 283 301 304
ORSON	231
OSAKI	231 256 275
OTTO VERSAND	257
PALLADIUM	232 256
	271 275 300
PANASONIC	260 261 262
	267 314 321 325
PATHE CINEMA	301
PATHE MARCONI	232
PENTAX	266
PERDIO	231
PHILCO	299
PHILIPS	235 242 257 271
	290 293 315 317 327
PHONOLA	257
PIONEER	257 294
PORTLAND	245 250
PRINZ	231
PRO2	233 248 262 269 311 319
PROFEX	275
PROLINE	231 288
PROSONIC	233 245
PYE	257
QUARTZ	258
QUELLE	231 257 258
	263 264 271 301
RADIOLA	257
REF	232 293
RFT	250 257
ROADSTAR	245 252 256 275
SABA	232 281 293 303 305 324
SAISHO	233 248 275 301
SALORA	237 258 292 298
SAMSUNG	252 311 312
SAMURAI	250
SANSUI	232 244 294
SANYO	258 279 284
SAVILLE	248
SBR	257
SCHAUB LORENZ	231 232
	237 258 264
SCHNEIDER	231 233 245 250
	256 257 265 275
SEG	252 275
SEI-SINUDYNE	257
SELECO	232
SENTRA	250
SENTRON	275
SHARP	240 241 282 328
SHINTOM	258 275
SHIVAKI	256
SIEMENS	256 258 263 271
SILVA	256
SINUDYNE	257
SOLAVOX	250
SONOKO	245
SONOLOR	240
SONTEC	256
SONY	249 251 255 308
	309 310 313 316
STANDARD	245
STRONG	244

SUNKAI	233
SUNSTAR	231
SUNTRONIC	231
SUNWOOD	275
TAIISHO	233
TANDBERG	263 301
TASHIKO	231 240
TATUNG	231 232 257
TCM	233 248 262 269 311 319
TEC	250
TECHNICS	260 262
TELEAVIA	232
TELEFUNKEN	232 280 293 294
	295 303 305 306 307 323 324
TENOSAL	275
TENSAI	231 256 275
TEVION	233 248 262 269 311 319
THOMSON	232 242 293 294
	295 305 323 324
THORN	232 258 301
TiVo HDD	242 316
TOKAI	256 275
TONSAI	275
TOSHIBA	232 257 265
	293 298 319 320
TOWADA	275
TOWIKA	275
TRIUMPH	301
TVÄ	250
UHER	256 264
ULTRAVOX	264
UNITECH	252
UNITED QUICK STAR	245
UNIVERSUM	231 237 239 253
	256 257 263 271 290
VICTOR	294 295
VIDEON	233 248 262 311
WELTBlick	256
WHITE WESTINGHOUSE	264
YAMISHI	275
YOKAN	275
YOKO	250 252 256 275

## Cable

CABLETIME	448 449 450
CABLE AND WIRELESS	606
CLYDE CABLEVISION	452
CRYPTOVISION	458
FILMNET CABLECRYPT	474
FILMNET COMCRYPT	474
FOXTEL	602
GEC	452
GRUNDIG	415 483
IMPULSE	554
JERROLD	494 554
MOVIE TIME	551
NTL	606
OPTUS	494
PACE	606
PIONEER	415 518 521
SCIENTIFIC ATLANTA	524 525
STS	551
TELE+1	474
TELEWEST	554 606
VISIOPASS	487
DITRISTRAD	462

## SAT

AKAI	552
ALBA	401 402 404 405
	407 451 482 562
ALDES	405 408 409
ALLSAT	410 462 552
ALLSONIC	408 428
AMPERE	422
AMSTRAD	415 416 417 419
	421 541 555 584
ANKARO	408 428
ANTTRON	401 407
APOLLO	401
ARCON	415 422 424 426 463
ARMSTRONG	419
ASAT	552
AST	435
ASTON	406 594
ASTRA	419 429 431 432 502
ASTRO	407 409 428 439 441
AUDIOTON	407 462
AXIS	415 428 432 456
BARCOM	424
BEST	424 428
BLAUPUNKT	439
BOCA	419 502 635
BRANDT	565 566 567 574
BRAIN WAVE	444
BROADCAST	443
BT SATELLITE	420 574
BUSH	402 404 410
	446 451 482 562
CANAL+	569
CHANNEL MASTER	405
CHAPARRAL	507
CHESS	547 586
CITYCOM	402 459
CLATRONIC	444
CLEMENS KAMPHUS	491
CNT	409
COLUMBUS	477
COMMLINK	408
COMTECH	456
CONDOR	428
CONNEXIONS	438 454
CONTEC	456 459
COSAT	462
CROWN	419
CYBERCOM	412 413 423 428
	442 493 504 511 514 546
	566 583 586 587 618 619
CYBERMAXX	412 413 423 428
	442 493 504 511 514 546
	566 583 586 587 618 619
CYTRON	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
DAERYUNG	438
DANSAT	410
DECCA	460
DELEGA	405
DEW	456
DIAMOND	461
DISKXPRESS	424 454
DITRISTRAD	462

DNT	438 552
DONG WOO	501
DRAKE	463 557
DUAL	412 413 423 428 493 504
	511 566 583 586 587 618 619
ECHOSTAR	425 438 464 465 467
	481 578 579 580 581 586
EINHELL	401 408 417 419
ELEKTA	409
ELTA	401 428 462 552
EMANON	401
EMME ESSE	428 446 491
EP SAT	402
EURODEC	603
EUROSAT	419
EUROSKY	419 428
EUROSPACE	468
EUROSTAR	419
EXATOR	401 407
FERGUSON	402 410 446
	493 504 511 514 546
	566 583 586 587 618 619
FIDELITY	471 472 473 603
FINLANDIA	415 417
FINLUX	402 429 475 480 487 608
FINNSAT	456 603
FORCE	535 553 577
FOXTEL	602
FRACARRO	562
FRANCE SATELLITE/TV	477
FREECOM	401 489
FTE	420 422 496
FUBA	401 424 428 431 438
	439 477 480 548 552
GALAXIS	408 428 432 456 462
	478 484 535 582 583
GALAXY	424
GMI	419
GOLDSTAR	489
GOODING	483
GOODMANS	402 451 482 526
GRANADA	429
GROTHUSEN	401 489
GRUNDIG	402 407 436 439 446
	483 495 512 550 555 584 602
HANSEATIC	504
HANTOR	401 444 501
HANURI	409
HELIOCOM	422
HINARI	405
HIRSCHMANN	439 487 488 491
	522 547 548 558
HISAWA	444
HITACHI	402 446 537
HOUSTON	462
HUTH	408 411 419 443
	444 456 462 491
HUMAX	485 517 582
HYUNDAI	486
IMPERIAL	482 562
INNOVATION	428 493 504 511
	583 586 587 618 619
INTERTRONIC	419
INTERVISION	462
ITT/NOKIA	402 429 446
	454 487 537 548
JOHANSSON	444
JSR	462

JVC	483
KATHREIN	439 441 459 496 498
	499 507 549 552 607 617 631
KOSMOS	489 491 496
KR	407
KREISELMEYER	439
KYOSTAR	401
LABGEAR	459 462
LASAT	409 428 500 501
	502 565 566 567
LENCO	401 420 489 503
LENG	444
LENNOX	462
LENSON	479
LIDCOM	451
LIFE	583
LIFESAT	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
LIFETEC	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
LION	468
LG	489
LORRAINE	489
LUXUS	428
LUPOR	417 429 537 548
LYONNAISE	603
MACAB	603
MANHATTAN	402 403 409
	446 462 633
MARANTZ	552
MASCOM	409
MASPRO	402 446 471 483 507 558
MATSUI	493 504 511 514 546
	483 574
MB	504
MEDIAMARKT	419
MEDIASAT	402
MEDION	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
MEGA	552
METRONIC	401 407 408 409 424
	601 612 613 614 615 632
METZ	439
MICROMAXX	412 413 423 428
	442 493 504 511 514 546
	566 583 586 587 618 619
MICROSTAR	412 413 423 428
	442 493 504 511 514 546
	566 583 586 587 618 619
MICRO TECHNOLOGY	468
MINSERVA	439 483
MITSUBISHI	402 439 574
MITSUMI	502
MORGANS	419 502 552
MORGAN SYDNEY	611
MULTICHOICE	602
MULTISTAR	496 501
MULTITEC	401 426
MURATTO	437 489
NAVEX	444
NEC	509 510
NEUHAUS	432 462 479
NEXTWAVE	414 585
NIKKO	419
NOKIA	402 429 446 454 487 519
	530 531 544 548 563 564

NOMEX	622
NORDEMENDE	401 402 405
	409 472 549 603
NOVIS	444
OCEANIC	461 468
OCTAGON	401 407 456
OKANO	419 491 496
OPTEX	459 462
ORBIT	435
ORBITECH	401
ORIGO	468
OSAT	407
OTTO VERSAND	439
PACE	402 410 439 446 453 471
	482 508 527 555 559 584
PACIFIC	461
PALCOM	405 431 477 479
PALLADIUM	419 483
PALTEC	431
PANASONIC	402 446 542 555 584
PANDA	402 410
PANSAT	490
PHILIPS	402 427 434 436 446
	455 483 493 495 508 515
	550 552 561 599 600 605
PHOENIX	456 482
PHONOTREND	408 462 491
PIONEER	457 620
POLSAT	603
POLYTRON	459
PREDKI	444
PREMIERE	462 544 564 569
PRIESNER	419 445
PRO2	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
PROFI	503
PROMAX	402
PROSAT	404 405 408 482 562
PROTEK	461
PROVISION	409
QUADRAL	405 408 428
QUELLE	417 439
QUIERO	603
RADIOLA	552
RADIX	438 630
RAINBOW	407
A-TREND	476
REBOX	510
REDIFFUSION	510
REDPOINT	432
REDSTAR	428
RFT	408 552
RUEFACH	503
SABA	404 409 446 468 471 472
	543 556 562 565 571 572 573 575
SABRE	402
SAGEM	570 603 604
SAKURA	456 482
SALORA	429 509 510 527
SAMSUNG	401 426
SAT	405 415 435 437
SATCOM	443 504 523
SATEC	446
SATFORD	443
SATMASTER	424 444
SATPARTNER	401 407 409
	444 489 491

SCHNEIDER	428 455 511 583
	586 587 618 635
SCHWAIGER	411 412 430 433
	440 459 498 504 508 516
	566 573 575 576 577 582 583
	585 587 598 616 631 633 635
SEEMANN	419 432 438
SEG	401 428 444 504 541 631 634
SELECO	462
SIEMENS	439
SILVA	444
SKARDIN	432
SKY DIGITAL	555 584
SKYMASTER	408 504 546 547
	586 587 588 589 590 591 592 621
SKYMAX	552
SKYVISION	462
SONY	418 447 555 584
SR	419 472 502
STARLAND	586
STARRING	444
STAR TRAK	401
STRONG	401 407 428
	454 489 545 562
SUMIDA	419
SUNSTAR	419 502 527
TANDBERG	603
TANDY	407
TANTEC	402 446 471 477 479
TATUNG	460
TCM	412 413 423 428 442
	493 504 511 514 546
	566 583 586 587 618 619
TECO	419 502
TECHNILAND	443
TECHNISAT	438 479 528 529 623
TELANOR	405
TELASAT	504
TELEFUNKEN	401 446 560
	565 566 567 574
TELEKA	407 419 426 438
TELEMASTER	409
TELEMAX	500
TELESAT	504
TELESTAR	479
TELEVES	402 610 611
TELEWIRE	462
TEVION	412 413 423 428
	442 493 504 511 514 546
	566 583 586 587 618 619
THOMSON	402 472 532
	560 568 574 603
THORENS	461