



Video Service Remotes and Codes Handbook

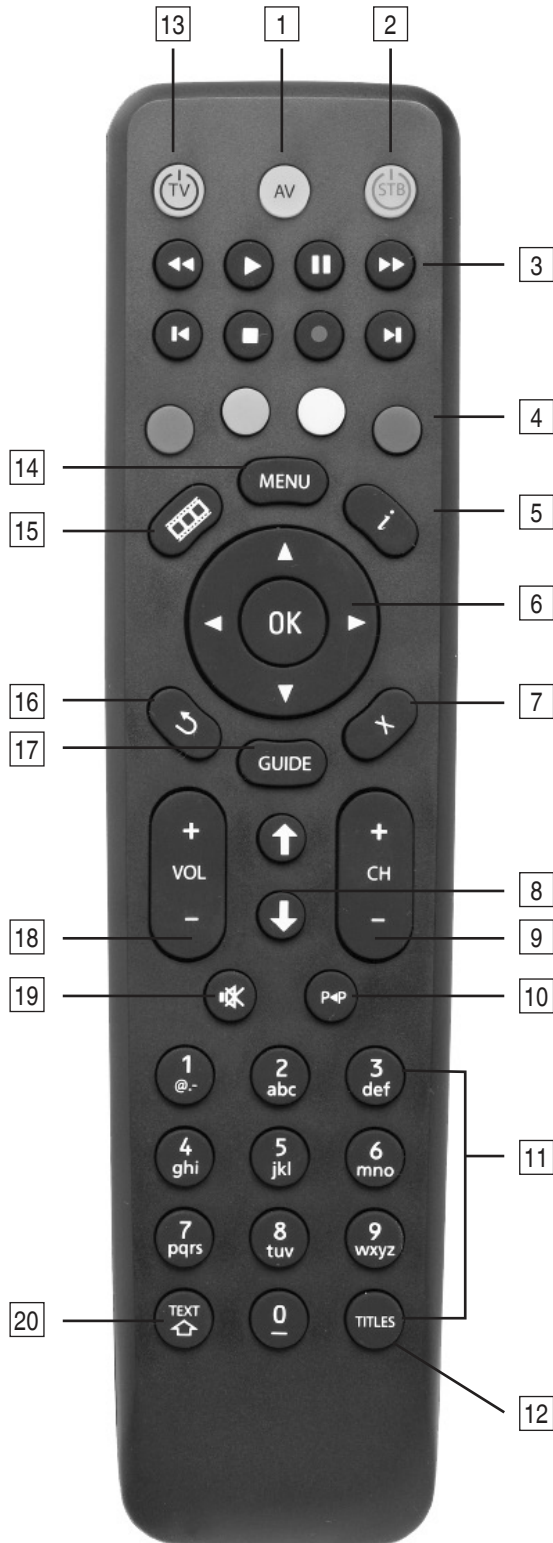
Handbook is subject to change.

Effective 10/01/2016



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Amino Willow Remote



- 1—TV AV Source Select button
- 2—STB Standby button
- 3—STB DVR Transport buttons
- 4—Color Navigation buttons
- 5—Information button
- 6—Navigation and **OK** buttons
- 7—Exit button
- 8—Page Up and Page Down buttons
- 9—Channel Up and Channel Down buttons
- 10—Previous Channel Select button
- 11—Channel Select buttons and text entry
- 12—Subtitles button
- 13—TV Standby button
- 14—STB Menu button
- 15—DVR button
- 16—Back button
- 17—Interactive Programming Guide button
- 18—Volume Up and Down buttons
- 19—Mute button
- 20—Teletext button (press and release) and TV SHIFT function (press and hold)

Note: Some button functionality (e.g. DVR) may not be available on specific models of set-top boxes and functionality also varies with the type of TV service delivered by your service provider.

There are two ways you can program your remote:

- Program your remote using the TV Control Setup: Brand Search Method.
- Program your remote using the TV Control Setup: Auto Search Method.

-When a button on the remote is pressed, either the set-top box standby button will flash (or TV standby button if a TV brand has been entered) depending on which product is being controlled by the remote control. If a button is pressed for more than 30 seconds the remote control will stop transmitting commands in order to preserve battery life.

TV Control Setup: Brand Search Method



The remote control can be programmed to operate certain functions of your TV set. To program this functionality, perform the following instructions in sequence. In case of a mistake, the process can be exited at any point by pressing and holding the **TEXT/SHIFT** button and then at the same time pressing the **STOP** button. The remote control will revert to normal operation and no TV brand code will be stored.

1. Determine the manufacturer of your TV set.
2. Look up the 4-digit manufacturer code supplied following these instructions and make a note of this code.

TV set up code number

3. Make sure your TV set is turned on. (The set-top box does not need to be turned on to perform this programming feature).
4. Press and hold both the **1** and the **3** buttons at the same time on the remote control for approximately 3 seconds until the **TV Standby** button remains lit, then release both buttons.
5. Now enter the 4-digit manufacturer code for your TV set. On each digit entry the **TV Standby** button will flash. On entry of the 4th digit the TV standby button will flash then remain lit.
6. Point the remote control at the TV set and press and hold down the **TV Standby** button or the **MUTE** button on the remote control.
7. When the TV either turns off or brings up the **MUTE** symbol on screen, then release that button. This may take a few minutes to happen.
8. Press and hold the **TEXT/SHIFT** button and then at the same time press the **STOP** button to finish setting up the TV control mode. The TV Standby button will go out. The TV control function is now programmed into the remote control.

The Following Buttons Should Now Operate The TV Set:

- =TV Standby
- **AV**=AV Source Select
- =**Vol+**, **Vol-** and **MUTE**

-If not all the above mentioned buttons operate the TV set then a Key Fix operation can be performed.

-Should the TV model be changed and the remote control requires re-programming then repeat the above setup procedure with the new TV. Should the TV brand be not successfully found by the remote control then the TV standby button will flash rapidly and the remote control will revert to normal operation. No TV brand code will be stored.

TV Control Setup: Auto Search Method

Should the TV brand not be successfully found by the previous Brand Search Method then the Auto Search Method can be used.

-Please note this process may take up to 5 minutes to find your TV code.

1. Make sure your TV set is turned on. (The set-top box does not need to be turned on to perform this programming feature).
2. Press and hold both the **1** and the **3** buttons at the same time on the remote control for approximately 3 seconds until the **TV Standby** button remains lit, then release both buttons.
3. Point the remote control at the TV set and press and hold down the **TV Standby** button or the **MUTE** button on the remote control.
4. When the TV either turns off or brings up the **MUTE** symbol on screen, then release that button. This may take up to 5 minutes to happen.
5. Press and hold the **TEXT/SHIFT** button and then at the same time press the **STOP** button to finish setting up the TV control mode. The **TV Standby** button will go out. The TV control function is now programmed into the remote control.

-Should the TV brand be not successfully found by the remote control then the TV standby button will flash rapidly and the remote control will revert to normal operation. No TV brand code will be stored. If even Auto Search Method fails to successfully setup operation of the TV set, then the remote is unable to control that particular TV set.

TV Shift Functionality

When a TV brand has successfully been programmed into the remote control with the above steps, the following additional buttons may also control the TV set. These can be accessed by pressing and holding the **TEXT/SHIFT** button on the remote control and at the same time pressing: digit

buttons **0..9, LEFT/RIGHT, UP/DOWN, OK, CH+/-** and the four color navigation buttons.

-Operation of these buttons is not guaranteed to control the normally expected functionality of the TV set.

Key Fix

If not all the previously mentioned buttons operate the TV set then a Key Fix operation can be performed as follows:

1. Press and hold the **1** and **9** buttons simultaneously for approximately 3 seconds until the **TV Standby** button is lit.
2. Try all the above mentioned TV buttons.
3. If the TV does not respond to a button, then hold that button down permanently. The remote control will now step through alternative settings. When the TV responds correctly then release that button.
4. Repeat that procedure for other buttons if necessary
5. Once finished, press **TEXT/SHIFT** and **STOP** at the same time

Removing TV Functionality

To reset the remote control and erase the TV functionality:

1. Press and hold the **1** and **6** buttons simultaneously for approximately 3 seconds until the TV Standby button is lit.
2. Enter the following key sequence in the correct order **9, 9, 6**.
3. The TV settings will be deleted from the remote control.

AMINO WILLOW CODES

A.R. SYSTEMS 0012	ALLSTAR 0108	AUSIND 0276	BONDSTEC 0403
ABEX 0014	AMERICA ACTION 0123	AUTOVOX 0280	BOOTS 0405
ABS 0016	AMOI 0132	AVENTURA 0287	BORK 3615
ACCENT 0019	AMPLIVISION 0138	AWA 0296	BPL 0413
ACER 0028	AMPRO 0139	AXXON 0303	BRADFORD 0414
ACME 3521	AMSTRAD 0140	AYOMI 3525	BRANDT 0416
ACOUSTIC SOLUTIONS 0032	ANAM 0146	BAIRD 0311	BRILLIAN 0422
ACTION 0033	ANAM NATIONAL 0147	BANG AND OLUFSEN 0314	BRINKMANN 0423
ACURA 0036	ANDERSSON 0148	BARCO 0319	BRIONVEGA 0424
ADA 0038	ANGLO 0151	BARON 3959	BRITANNIA 0425
ADC 0040	ANITECH 0154	BASIC LINE 0325	BROCKWOOD 0430
ADDISON 0043	ANSONIC 0156	BASTIDE 0327	BROKSONIC 0432
ADMIRAL 0046	AOC 0165	BAUR 0331	BRUNS 0435
ADVENT 0054	AOMNI 3555	BAYSONIC 0333	BSKYB 0436
ADVENTURA 0055	APEX DIGITAL 0170	BAZIN 0335	BSR 0437
ADYSON 0058	APOLLO 0171	BEAUMARK 0340	BTC 0439
AEG 0059	APPLE 0172	BEIJING 0345	BUSH 0445
AFTRON 3470	ARC EN CIEL 0178	BEKO 0346	BYD:SIGN 0448
AGASHI 0063	ARCAM 0179	BELCOR 0348	CAIHONG 0462
AGAZI 3522	ARCAM DELTA 3524	BELL AND HOWELL 0350	CAISHI 0465
AGB 0064	ARDEM 0184	BELSON 0355	CAMERON 4032
AIKO 0069	ARENA 3375	BELSTAR 0357	CAMPER 3911
AIM 0070	ARISTONA 0192	BENQ 0359	CANDLE 0480
AIWA 0072	ART 0199	BEON 0361	CAPSONIC 0486
AKAI 0074	ARTHUR MARTIN 0200	BERTHEN 0363	CARAD 0488
AKASHI 0075	ASA 0202	BEST 0364	CARENA 0489
AKIBA 0078	ASBERG 0205	BESTAR 0368	CARNIVALE 0491
AKIRA 0079	ASTAR 0218	BESTAR-DAEWOO 0369	CARREFOUR 0492
AKITO 0082	ASTRA 0221	BGH 3507	CARVER 0494
AKURA 0083	ASUKA 0227	BINATONE 0378	CASCADE 0496
ALARON 0085	ATD 0229	BLACK DIAMOND 0384	CASIO 0499
ALBA 0086	ATLANTIC 0233	BLACK STAR 0386	CATHA 4094
ALBATRON 0087	ATORI 0237	BLACKTRON 3526	CATHAY 0501
ALCYON 0093	AUCHAN 0240	BLACKWAY 0388	CCE 0504
ALIENWARE 0099	AUDIOSONIC 0264	BLAUPUNKT 0390	CELEBRITY 0509
ALKOS 3523	AUDIOTON 0266	BLUE SKY 0395	CELERA 0510
ALLORGAN 0105	AUDIOVOX 0268	BLUE STAR 0396	CELESTIAL 0511
	AUDIOWORLD 0269	BOCA 0399	CENTREX 0516

CENTRUM 0519	DEC 0717	ELITE 0903	GEANT CASINO 1082
CENTURION 0520	DECCA 0718	ELMAN 0907	GEC 1083
CENTURY 0521	DEITRON 0722	ELTA 0910	GELOSO 1087
CGE 0523	DELL 0725	EMERSON 0917	GENERAL TECHNIC 1095
CHANGCHENG 0526	DENON 0731	EMPEROR 0921	GENESIS 1096
CHANGFEI 0527	DENVER 0733	EMPRES 0922	GENEXXA 1097
CHANGFENG 0528	DESMET 0738	ENVISION 0933	GFM 3820
CHANGHAI 0529	DIAMANT 0746	ENZER 0934	G-HANZ 3397
CHANGHONG 0530	DIAMOND 0747	EPSON 0937	GIANT 1113
CHIMEI 3563	DIAMOND VISION 0748	ERRES 0942	GIBRALTER 1114
CHUANGJIA 4096	DICK SMITH ELECTRONICS	ESA 0943	GO VIDEO 1126
CHUN YUN 0545	0750	ESC 0945	GOLDFUNK 1135
CHUNFENG 0546	DIGATRON 0751	ETRON 0949	GOLDHAND 1136
CHUNG HSIN 0547	DIGIHOME 0758	EUROFEEL 0954	GOLDLINE 1138
CHUNSUN 0549	DIGILINE 0759	EUROLINE 0955	GOLDSTAR 1140
CIMLINE 0552	DIGIMAX 3808	EUROMAN 0956	GOODMANS 1142
CINEX 0563	DIGITAL LIFE 0772	EUROPA 0957	GORENJE 1144
CITIZEN 0567	DIGITAL LIFESTYLES 3567	EUROPHON 0959	GP 1147
CITY 0569	DIGITEX 0780	EVESHAM 0972	GPM 1149
CLARION 0575	DIGITOR 0781	EVOLUTION 0973	GPX 1150
CLARIVOX 0576	DIRECTV 0794	EXCELLO 0975	GRADIENTE 1151
CLATRONIC 0581	DIXI 0807	EXPERT 0976	GRAETZ 1152
CLAYTON 0582	DL 0810	EXQUISIT 0978	GRANADA 1154
CMS 0590	DOMEOS 0817	FAGOR LIFE 4102	GRANDIN 1156
CMS HIGHTEC 0591	DONGDA 0820	FEILANG 0990	GREAT WALL 4105
COBY 0597	DONGHAI 0821	FEILU 0991	GRONIC 1160
COMMERCIAL SOLUTIONS 0615	DREAN 0832	FEIYUE 0993	GRUNDIG 1162
CONCERTO 0625	DSE 0833	FENMENTI 4103	GRUNKEL 1164
CONCORDE 0626	DTS 0837	FENNER 0994	GRUNPY 1165
CONDOR 0627	DUAL 0838	FERGUSON 0996	GVA 3510
CONIA 0628	DUAL-TEC 3528	FIDELITY 0998	HAAZ 1172
CONROWA 0634	DUMONT 0840	FILSAI 1000	HAIER 1175
CONTEC 0635	DUONGJIE 4101	FINLANDIA 1003	HAIHONG 1176
CONTINENTAL EDISON 0637	DURABRAND 0842	FINLUX 1004	HALIFAX 1179
COSMEL 0647	DUX 0843	FIRSTLINE 1008	HALLMARK 1180
CRAIG 0650	D-VISION 0684	FISHER 1009	HAMPTON 1183
CROSLEY 0655	DVX 0847	FLINT 1014	HANKOOK 1188
CROWN 0658	DWIN 0848	FNR 1016	HANNS.G 3478
CS ELECTRONICS 0663	DX ANTENNA 0849	FORMENTI 1023	HANNSPREE 1189
CTC 0664	DYNATRON 0855	FORMENTI-PHOENIX 1024	HANSEATIC 1190
C-TECH 0449	DYNEX 3476	FORTRESS 1027	HANTAREX 1192
CTX 0665	EASY LIVING 0860	FRABA 1030	HANTOR 1193
CURTIS 0666	ECCO 0864	FRIAC 1040	HARLEY DAVIDSON 1197
CURTIS MATHES 0667	ECE 0865	FRONTECH 1042	HARMAN/KARDON 1198
CXC 0670	ELBE 0880	FUJITSU 1052	HARVARD 1202
CYBERPOWER 0674	ELBE-SHARP 3529	FUJITSU GENERAL 1053	HARWA 1203
CYBERTRON 0675	ELCIT 0883	FUJITSU SIEMENS 1054	HARWOOD 1204
CYTRON 0680	ELECTA 3530	FUNAI 1056	HAUPPAUGE 1206
DAEWOO 0692	ELECTRO TECH 3531	FURICHI 1058	HAVERMY 1208
DAINICHI 0694	ELECTROBAND 0888	FUTRONIC 1061	HCM 1210
DANSAI 0699	ELECTROGRAPH 0889	FUTURETECH 1064	HELIOS 1219
DANTAX 0702	ELECTROHOME 0890	GABA 4059	HELLO KITTY 1221
DATRON 4201	ELEKTRA 0896	GALAXI 1068	HEMA 1222
DATSURA 0703	ELEMENT 3477	GALAXIS 1069	HEMMERMANN 1223
DAWA 0707	ELFUNK 0899	GATEWAY 1076	HEWLETT PACKARD 1229
DAYTRON 0710	ELG 0900	GBC 1078	HIFIVOX 1233
DE GRAAF 0716	ELIN 0902	GE 1081	HIGASHI 1234

HIGHLINE 1236	INTERVISION 1386	KONIG 1547	MARELLI 1729
HIKONA 1237	IR 4110	KONKA 1548	MARK 1731
HILINE 3533	IRRADIO 1396	KORPEL 1552	MASCOM 1738
HINARI 1243	IRT 1397	KORTING 1554	MASTRO 1743
HISAWA 1247	ISUKAI 1402	KOSMOS 1557	MASUDA 1744
HISENSE 1249	ITC 1404	KOYODA 1561	MATSUI 1750
HITACHI 1251	ITS 1405	KTV 1572	MATSUSHITA 1751
HITACHI FUJIAN 1252	ITT 1406	KUNLUN 1578	MAXDORF 1756
HITEC 1253	ITT NOKIA 1407	KURO 1579	MAXENT 1757
HITSU 1257	ITV 1408	KYOSHU 1583	MAXIM 1759
HOEHER 1262	JANEIL 1414	KYOTO 1585	MCMICHAEL 1768
HONGMEI 1272	JBL 1420	LANDS ELECTRONIC 1588	MECK 1775
HORNYPHON 1277	JCB 1421	LASAT 1597	MEDIA CENTER PC 1777
HOSHAI 1278	JEAN 1424	LAVIS 1602	MEDIATOR 1784
HOWARD COMPUTERS 1281	JEC 1426	LAYCO 4117	MEDION 1787
HP 1283	JENSEN 1429	LECSON 1606	MEDISON 1788
HUAFA 1287	JIAHUA 1435	LENCO 1615	MEGAPOWER 1791
HUANGHAIMEI 1288	JINFENG 1438	LENOIR 1617	MEGATRON 1795
HUANGHE 1289	JINHAI 1439	LESA 1622	MEI 1796
HUANGLONG 1290	JINXING 1442	LEXSOR 1626	MELECTRONIC 3654
HUANGSHAN 1291	JMB 1445	LEYCO 1627	MELVOX 1799
HUANYU 1292	JNC 1446	LG 1628	MEMOREX 1800
HUARI 1294	JOCEL 1448	LG/GOLDSTAR 3536	MEMPHIS 1802
HUIJIABAN 4108	JTV 3645	LIESENK 3537	MERCURY 1804
HUMAX 1298	JUBILEE 1460	LIESENK AND TTER 1630	MERMAID 1806
HUSH 1304	JVC 1464	LIESENKOTTER 1631	METRONIC 1809
HYGASHI 1308	KAISUI 1471	LIFE 3538	METZ 1810
HYPER 1309	KAMOSONIC 3535	LIFETEC 1633	MGA 1811
HYPSON 1312	KAMP 1475	LINKSYS 1640	MICROMAXX 1822
HYUNDAI 1315	KANGCHONG 1476	LLOYD'S 1648	MICROSOFT 1826
IBERIA 1320	KANGHUA 1477	LOCAL INDIA TV 1653	MICROSTAR 1827
IBUYPOWER 1322	KANGWEI 4115	LOCAL MALAYSIA TV 1656	MICROTEK 1829
ICE 1324	KAPSCH 1483	LODOS 1659	MIDLAND 1831
ICES 1325	KARCHER 1484	LOEWE 1660	MIKOMI 1833
IDEAL 3641	KATHREIN 1486	LOEWE OPTA 3540	MINATO 1835
I-INC 3462	KAWA 1487	LOGIK 1661	MIND 1837
ILO 1341	KAWASHO 1489	LOGIX 1663	MINERVA 1838
IMPERIAL 1346	KDS 1494	LUMA 1674	MINISTRY OF SOUND 4247
INDESIT 1349	KEC 1496	LUMATRON 1676	MINOKA 1840
INDIANA 1350	KEN BROWN 1499	LUX MAY 1680	MINTEK 1845
INFINITY 1352	KENDO 1500	LUXMAN 1682	MINUTZ 1847
INFOCUS 1353	KENNEDY 1504	LUXOR 1683	MITSAI 3851
INGELEN 1354	KENNEX 1505	LXI 1686	MITSUBISHI 1855
INGERSOL 1355	KENSTAR 3756	M ELECTRONIC 1688	MIVAR 1857
INITIAL 1356	KENWOOD 1507	MADISON 1698	MONIVISION 1872
INNO HIT 1358	KHIND 1511	MAG 1701	MOREE 4565
INNOVA 1359	KIC 1512	MAGNADYNE 1702	MORGAN'S 1875
INNOVATION 1360	KINGSLEY 1520	MAGNAFON 1703	MORGANS 3970
INOTECH 1364	KIOTA 1522	MAGNASONIC 1704	MOTION 1877
INSIGNIA 1368	KIOTO 1523	MAGNAVOX 1706	MOTOROLA 1878
INSPIRA 4296	KITON 1525	MAGNIN 1708	MTC 1889
INTEQ 1373	KLH 1529	MAGNUM 1709	MTEC 1890
INTERACTIVE 3534	KLL 1531	MAJESTIC 1713	MTLOGIC 1892
INTERBUY 1376	KLOSS 1532	MANDOR 1717	MUDAN 1896
INTERFUNK 1377	KNEISSEL 1535	MANESTH 1718	MULTISTANDARD 1904
INTERNAL 1379	KOLIN 1541	MANHATTAN 1719	MULTISYSTEM 4121
INTERNATIONAL 1380	KOLSTER 1543	MARANTZ 1724	MULTITEC 1906

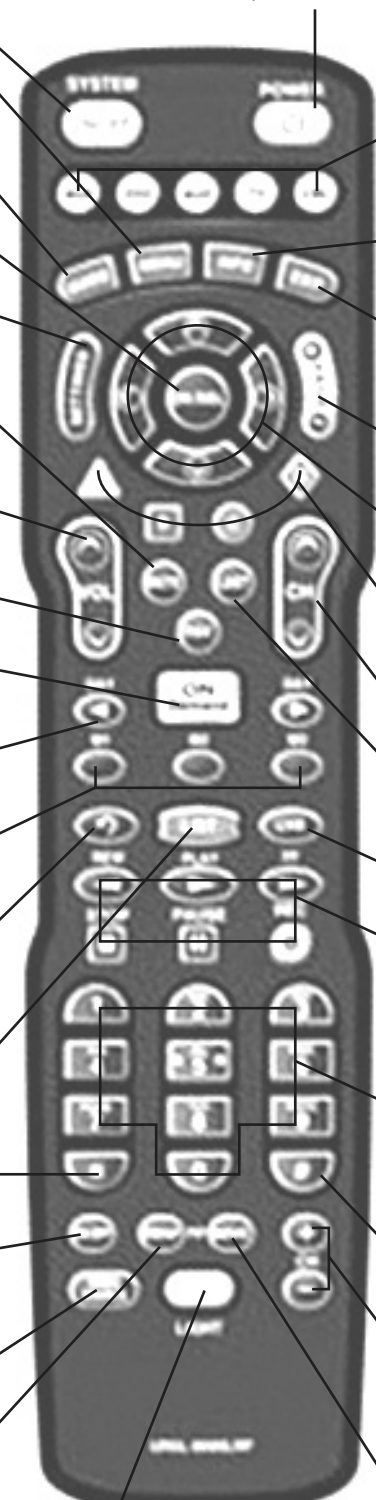
MULTITECH 1907	ONN 3663	PREMIER 2248	RHAPSODY 2387
MURPHY 1911	ONWA 2087	PRESIDENT 2250	RICAVISION 2388
MUSIKLAND 1915	OPERA 2090	PRIMA 2253	RINEX 2392
MYRYAD 1922	OPPO 2092	PRINCESS 3514	R-LINE 2327
NAD 1926	OPTIMUS 2095	PRINCETON 2258	ROADSTAR 2398
NAIKO 1930	OPTOMA 2097	PRINSTON 2259	ROBOTRON 2401
NAKIMURA 1933	OPTONICA 2099	PRINZ 2260	ROLSON 2410
NAONIS 1936	ORBIT 2103	PRISM 2261	ROWA 2416
NAT 1941	ORION 2111	PROFEKT 4126	ROYAL LUX 2420
NATIONAL 1942	ORLINE 2113	PROFEX 2269	RTF 3548
NEC 1950	ORMOND 2114	PROFILO 2272	RUNCO 2423
NECKERMANN 1951	ORSOWE 2116	PROFITRONIC 2273	SABA 2429
NEI 1952	OSAKI 2118	PROLINE 2274	SAGEM 2434
NESCO 1960	OSIO 2121	PROMAX 2275	SAISHO 2437
NETSAT 1966	OSO 2122	PROSCAN 2279	SAIVOD 2439
NETTV 1967	OSUME 2123	PROSCO 2280	SALORA 2443
NETWORK 1968	OTIC 2125	PROSONIC 2282	SAMBERS 2445
NEUFUNK 1970	OTTO VERSAND 2126	PROTECH 2284	SAMPO 2446
NEW TECH 1979	OULIN 4123	PROTON 2288	SAMSUNG 2448
NEW WORLD 1980	PACIFIC 2135	PROTRON 2289	SAMSUX 2449
NEWAVE 1981	PACKARD BELL 2138	PROVIEW 2290	SANDRA 2454
NEXUS ELECTRONICS 3948	PAEL 2140	PROVISION 2291	SANSUI 2458
NICAMAGIC 1994	PALLADIUM 2145	PULSAR 2296	SANYO 2462
NIKAI 4566	PALSONIC 2147	PYE 2302	SANYUAN 2464
NIKKAI 1998	PANAMA 2149	PYMI 2304	SBR 2492
NIKKEI 1999	PANASONIC 2153	QINGDAO 2308	SCEPTRE 2498
NIKKO 2000	PANAVISION 2154	QUADRO 4071	SCHAUB LORENZ 2500
NIMBRO 4065	PANDA 2155	QUANDRA VISION 3546	SCHNEIDER 2501
NINTAUS 2006	PARK 3951	QUASAR 2320	SCIMITSU 2505
NIVEUS MEDIA 2012	PATHE CINEMA 2168	QUELLE 2322	SCOTCH 2506
NOBLEX 2013	PATHE MARCONI 2169	QUESTA 2324	SCOTT 2508
NOBLIKO 2014	PAUSA 2171	RADIALVA 2329	SEARS 2514
NOGAMATIC 2016	PENG SHENG 2181	RADIO 4128	SEAWAY 2515
NOKIA 2017	PENNEY 2182	RADIO SHACK 3547	SEELVER 2520
NORCENT 2020	PENSONIC 3778	RADIOLA 2330	SEG 2522
NORDIC 2021	PERDIO 2185	RADIOMARELLI 2331	SEI 2524
NORDMENDE 2022	PERFEKT 2186	RADIONETTE 2332	SEI-SINUDYNE 2525
NORDVISION 3543	PETTERS 2189	RADIOSHACK 2333	SELECO 2528
NORMEREL 2024	PHILCO 2192	RADIOTONE 2334	SEMIVOX 2529
NORTEK 3862	PHILHARMONIC 2194	RANK 2345	SEMP 2530
NORTHGATE 2027	PHILIPS 2195	RANK ARENA 2346	SENCORA 2531
NORWOOD MICRO 2029	PHOCUS 2198	RBM 2350	SENTRA 2534
NOVATRONIC 2035	PHOENIX 2199	RCA 2351	SERIE DORADA 2538
NOVEX 4567	PHONOLA 2201	REALISTIC 2354	SERINO 2539
NTC 2045	PHONOTREND 2202	RECCO 2358	SHANGHAI 2547
NU-TEC 2048	PILOT 2207	RECOR 2359	SHANSHUI 4133
NUVISION 2053	PIONEER 2212	RECTILIGNE 2362	SHAOFENG 2549
O.K.LINE 4301	PIONIER 2213	REDIFFUSION 2364	SHARP 2550
OCEANIC 2061	PLANTRON 2219	REDSTAR 2366	SHENCAI 2553
OKANA 4122	PLAYSONIC 2224	REFLEX 2368	SHENG CHIA 2554
OKANO 2065	POLAROID 2230	RELISYS 2374	SHENGCAI 4217
OLEVIA 2067	POLYVISION 4304	REMOTEC 2377	SHENYANG 2555
OMNI 2074	POPPY 2236	REOC 2379	SHERWOOD 2557
ONCEAS 3544	PORTLAND 2238	REVOLUTIONHD 3503	SHINELCO 4074
ONEI 4302	POWERPOINT 2241	REVOX 2383	SHINTOSHI 2564
ONIDA 2081	PRANDONI PRINCE 4125	REX 2385	SHIVAKI 2567
ONIMAX 2082	PRECISION 2244	RFT 2386	SHOGUN 2568

SHORAI 2569	SUPERLA 2782	TELEMEISTER 2924	VECTOR RESEARCH 3137
SIAM 2572	SUPERSCAN 2786	TELESONIC 2930	VENTURER 3143
SIAREM 2573	SUPERSONIC 2787	TELESTAR 2931	VEOS 3144
SIEMENS 2574	SUPERTECH 2789	TELETECH 2934	VESTEL 3148
SIERA 2576	SUPERVISION 2791	TELETON 2935	VEXA 3149
SIESTA 2577	SUPRA 2792	TELEVIDEON 2938	VIBRANT 3154
SIGNATURE 2582	SUPRE-MACY 2794	TELEVIEW 2939	VICTOR 3155
SILVA 2591	SUPREME 2795	TELEVISIO 2941	VIDEOCON 3163
SILVA SCHNEIDER 2592	SUSUMU 2797	TEMCO 2946	VIDEOLOGIC 3165
SILVER 2594	SUTRON 2798	TENNESSEE 2952	VIDEOLOGIQUE 3166
SILVERCREST 2595	SVA 2800	TENSAI 2954	VIDEOSAT 3170
SIMPSON 2598	SVASA 2801	TENSON 2955	VIDEOSYSTEM 3172
SINGER 2599	SWISSTEC 2806	TESLA 3680	VIDEOTECHNIC 3173
SINOTEC 2600	SYDNEY 2808	TESMET 3550	VIDEOTON 3174
SINUDYNE 2601	SYLVANIA 2809	TEVION 2962	VIDIKRON 3178
SKANTIC 2605	SYMPHONIC 2810	TEXET 2963	VIDTECH 3179
SKY 2610	SYNCO 2811	THOMAS 2971	VIEWSONIC 3186
SKYSONIC 2627	SYNTAX 2814	THOMSON 2972	VIKING 3188
SKYWORTH 2631	SYSLINE 2815	THORN 2974	VIORE 3192
SLX 2638	SYSTEMAX 2817	TIANKEBAN 4142	VISIOLA 3197
SOGERA 2649	SYTONG 2820	TMK 2994	VISION 3198
SOLAVOX 2654	TACICO 2823	TML 2995	VISTAR 3207
SOLE 2655	TACTUS 2825	TNCI 2996	VISTRON 3773
SONAWA 2663	TAGAR SYSTEMS 2831	TOBO 2999	VIZIO 3211
SONGDIAN 4136	TAISHAN 2835	TOKAI 3001	VOODOO 3215
SONIKO 2669	TALENT 2838	TOKAIDO 3002	VORTEC 3217
SONITRON 2671	TANDBERG 2842	TOKYO 3004	VOXSON 3220
SONNECLAIR 2673	TANDY 2843	TOMASHI 3006	VU 4078
SONOKO 2675	TASHIKO 2850	TOPLINE 3016	VUE 3225
SONOLOR 2676	TATUNG 2852	TOSHIBA 3021	WALKER 4311
SONTEC 2677	TCL 2856	TOTEVISION 3024	WALTHAM 3230
SONY 2679	TCM 2857	TOUCH 3025	WARDS 3231
SOUND AND VISION 2680	TEAC 2860	TOWADA 3028	WATSON 3233
SOUNDESIGN 2684	TEACHIMAGEN 4140	TOYODA 3030	WATT RADIO 3234
SOUNDWAVE 2689	TEC 2861	TRAKTON 3036	WAYCON 3237
SOVA 2690	TECH LINE 2863	TRANS CONTINENS 3037	WEGA 3238
SOWA 2691	TECHICA 2865	TRANS-CONTINENTS 3039	WEGAVOX 3239
SOYEA 2692	TECHNEMA 2866	TRANSFEC 4143	WELLTECH 3244
SOYO 2693	TECHNICA 2868	TRANSONIC 3041	WELTBlick 3245
SPECTRONIQ 2701	TECHNICS 2869	TRANSTEC 3042	WELTSTAR 3247
SQUAREVIEW 2703	TECHNIKA 2870	TRIAD 3049	WESTINGHOUSE 3249
SRYPION 4138	TECHNISAT 2873	TRIDENT 3054	WESTON 3251
SSS 2708	TECHNISSON 2874	TRISTAR 3057	WHARFEDALE 3255
STACK 9 2710	TECHNOL ACE 2875	TRIUMPH 3058	WHITE WESTINGHOUSE 3258
STANDARD 2713	TECHNOSONIC 2878	TRUTECH 3467	WILSON 3260
STARLITE 2728	TECHVIEW 2883	TVS 3081	WINDSOR 3265
STENWAY 2739	TECHWOOD 2884	TVTEXT 95 3082	WINDSTAR 3266
STERN 2741	TECNIMAGEN 2885	UHER 3089	WINDY SAM 3267
STRATO 2745	TECO 2886	ULTRA 3093	WINTEL 3271
STRONG 2748	TEDELEX 2889	ULTRAVOX 3095	WYSE 3288
STUDIO EXPERIENCE 2750	TEK 2892	UNIC LINE 3100	XENIUS 3297
STYLANDIA 2752	TEKNIKA 2895	UNION 3781	XIAHUA 3299
SUNBRITE 2759	TELEAVIA 2901	UNITED 3106	XIANGYU 3302
SUNKAI 2762	TELECOR 2910	UNIVERSAL 3113	XINGFU 3305
SUNNY 2764	TELEFUNKEN 2914	UNIVERSUM 3115	XINGHAI 3306
SUNSTAR 2768	TELEFUSION 2915	UNIVOX 3116	XINRISONG 3308
SUNWOOD 2772	TELEGAZI 2917	US LOGIC 3124	XLOGIC 3310



XORO 3315
XRYPTON 3317
XUELIAN 3320
YAMAHA 3326
YAMISHI 3328
YOKAN 3335
YOKO 3336
YORX 3340
YUHANG 3345
YU-MA-TU 3603
ZANUSSI 3349
ZENITH 3356
ZHUHAI 3364
ZIGGO 4007
ZONDA 3369
ZT GROUP 3370

PHAZR-5 Remote
UR5U-9000L & UR5U-9020L



System ON/OFF
Designed to send Power On/Off commands for up to five components with one button press.

POWER
Allows you to turn your TV, AUD, DVD, AUX, and set-top box On and Off.

MENU
Displays the Applications menu.

GUIDE
Displays the program guide listings.

OK/SEL
Selects highlighted screen options.

SETTINGS
Displays settings menu.

MUTE
Silences the audio. Press to activate. Press again to restore sound to the previous level.

VOL ▲ / ▼
Silences the audio. Press to activate. Press again to restore sound to the previous level.

FAV
Displays favorite channels.

ON Demand
Provides direct access to On Demand channels.

DAY ◀ / ▶
Skip forward or backward a whole day in the program guide.

M BUTTONS
Cable company custom-programmable Macros.

↺
Replays the previous few seconds of a program.

LIST
Displays a list of programs you have recorded allowing you to select one for viewing.

Reserved for future use.

ON-OFF
Opens or closes the PIP (Picture-in-Picture) window through the set-top box.

VIDEO SOURCE
Selects the video source from available video components.

SWAP
Swaps the content of the PIP (Picture-in-Picture) window and the main viewing screen through the set-top box so that PIP window displays on the main screen.

LIGHT
Press to backlight all keypad buttons. Press again to turn off (or simply wait 10 seconds for automatic shut-off).

AUX, DVD, AUD, TV, CBL
Device buttons used to select the component you want to operate and signals remote control activity.

INFO
Displays information about the program currently playing or highlighted in the program guide.

EXIT
Exit from current screen.

PAGE + / -
Accesses pages above or below the information currently displayed.

CURSOR NAVIGATION PAD (▲ ▼ ◀ ▶)
Navigate to and highlight an item from the on-screen choices.

A, B, C, D
Make direct selections from on-screen menus.

CH ▲ / ▼
Selects the next higher or lower channel.

LAST
Returns to the previously tuned channel.

LIVE
Displays live television programming.

VCR/DVD/VOD KEYS
Perform standard VCR and DVD functions when in VCR and DVD mode, and Video-on-Demand functions when in CABLE mode.

NUMBER PAD
Enter numbers to tune to channels. Also, make numeric entries on on-screen menus.
-You can also use the CH ▲ / ▼ or the program guide as alternate ways to tune to channels.

ASPECT / #
Changes the HD screen viewing aspect ratio through the set-top box.

PIP CH + / -
Selects the next higher or lower channel in the PIP (Picture-in-Picture) window through the set-top box.

MOVE
Moves the PIP (Picture-in-Picture) window to another location on the screen through the set-top box.



There are two ways you can program your remote:

- Program your remote using the Pre-Programmed 3-Digit Code Method.
- Program your remote using the Auto-Search Method.

The Pre-Programmed Code Method allows you to setup all the buttons at once by entering 3-digit code numbers that correspond to a particular Component’s manufacturer/brand, so it’s the fastest and easiest of the two methods. (Code Tables follow these instructions.)

The Auto-Search Method scans through all the codes in the remote control, one at a time.

-This pertains to all programming steps. When you are in setup mode, a component LED will light for 30 seconds. If you do not press a button within 30 seconds, the LED light will turn off and exit setup mode and you will need to start over.

Pre-Programmed 3-Digit Code Method Instructions:

1. Turn on the component you want to program (**TV, VCR, DVD or AUX**).
1. Press the **COMPONENT (TV, VCR, DVD or AUX)** button to be programmed and press the **OK/SEL** button simultaneously for 3 seconds. The component LED light will turn on for 30 seconds indicating the unit is ready to be programmed.
2. Point the remote control toward the component and enter the 3-digit code number as signed to your brand
3. After you’ve entered the correct code number and the component has turned off, press the **POWER** button to turn the component back on. Now it is time to test the **VOL+, VOL-** and **MUTE** buttons for the TV (or **PLAY >** and **STOP** buttons for VCR and DVD) to make sure they all work. If any of the functions do not work as they should, repeat from Step 3 using the next 3-digit code number listed for that brand until you find the best component code.

-If the 3-digit code number you just entered is correct, the component will turn off. If it did not turn off, continue entering code numbers listed for that brand until the component turns off.

Once you have found the correct 3-digit code, save it by pressing the same **COMPONENT (TV, VCR, DVD or AUX)** button one more time. The component LED light will blink twice to confirm that the code was successfully stored. Now, program the rest of your components by repeating Steps 1-5.

Record your component setup codes:

TV set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
VCR set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DVD set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
AUX set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

-If the Pre-Programmed Method did not work, or if the “Code Tables” do not list your component brand, use the Auto-Search Method following these instructions.

Auto-Search Method Programming Instructions:

1. Turn on the component you want to program (**TV, VCR, DVD or AUX**).
2. Press the **COMPONENT (TV, VCR, DVD or AUX)** button to be programmed and **OK/SEL** button simultaneously for 3 seconds. The component LED light will turn on for 30 seconds indicating the unit is ready to be programmed.
3. Point the remote toward the component and press the **CH up/down** buttons one step at a time or keep it pressed. The remote will emit a series of **ON/OFF** commands. Release the **CH up/down** buttons as soon as the component turns off.
4. Test functions. (Same as for 3-digit code Programming Method). If any of the functions do not work as they should, repeat from Step 3 using **CH up/down** buttons to find the correct code.
5. Save the code. (Same as for 3-digit code Programming Method). Now, repeat the Auto-Search Method for those components you could not program earlier with the Pre-Programmed Method.

Visit universalremote.com for additional information about your remote control.

PHAZR-5 CODES

CBL-CABLE Converters

CISCO/SA 001 003 041 042 045 046
 PIONEER 001 103 034 051 063 076 105
 PACE 001 002 005 206 217
 SAMSUNG 001 030
 MOTOROLA 002 111 148 206
 ARRIS 172 216
 CE-LABS 164
 COMCAST 195
 COX DIGITAL CABLE 223
 DIGEO 153
 DIGITAL MULTIMEDIA TECHNOLOGY 222
 ENTONE 221
 EVOLUTION 189 215
 EVOLUTION FTA 158
 FOXTEL 228
 GENERAL INSTRUMENT 005 103 104
 HAMLIN 049 050 055
 HITACHI 103 055
 HORIZON 225
 JERROLD 005 004 103 005 003 008 009 010 069
 LAYER3 226
 MAGNAVOX 010 012
 MEMOREX 052
 MOXI 111 252 153
 NFUSION 192
 PANASONIC 044 047
 PHILIPS 006 012 013 020 085
 PICO DIGITAL 224
 PULSAR 052
 RCA 047
 REGAL 049 050
 REGENCY 057
 SKY 230 204 240 241
 SONY 108
 SPRUCER 047
 TECHNICOLOR 365
 TELNET 354
 TOCOM 039 040 056
 TOSHIBA 052
 VIEWSTAR 012 015
 WINDSTREAM 212
 ZEEVEE 227
 ZENITH 052 060 093 100

CBL-IPTV

ADB 254
 AMINO 260
 CISCO 313
 ENTONE 213

INNOVATIVE SYSTEMS 262
 MOTOROLA 253

TV

A MARK 112 143
 ACCURIAN 036
 ADMIRAL 072 251 333
 AD NOTAM 672
 ADVENT 247 388
 ADVENTURA 002
 AFFINITY 680
 AKAI 116 248 404 475 323 387 391 615
 ALBATRON 017
 ALERON 028
 AMERICA ACTION 043
 AMPRO 073
 AMSTRAD 052
 ANAM 043 054 056 080 112
 AOC 116 363 112 616
 APEX 572
 APEX DIGITAL 006 724
 AQUAVISION 573 574 686
 ASTAR 477
 AUDIOVOX 076 454 388
 AVENTURA 052
 AVERA 761
 AVIELO 627 628
 AVION 441
 AXESS 711
 AXION 039
 BELCOR 116
 BELL&HOWELL 333 072
 BENQ 423 600
 BOXLIGHT 266
 BRADFORD 043
 BROCKWOOD 116
 BYDESIGN 031 032
 CANDLE 116 002 003 363
 CARY AUDIO DESIGN 266
 CELEBRITY 001
 CENTURION 116
 CETRONIC 043
 CHANGHONG 247
 CIELO 714
 CIIL 732
 CITIZEN 116 002 003 363 043 258 143
 CLARION 043
 CLASSIC 043
 CLP CLASSIC 333
 COBY 640 641 671 363
 COLORTYME 116
 CONCERTO 363
 CONCIERGE 073
 CONTEC 043 050 051
 CONTINU-US 161 746 747

CORNEA 116
 CORONADO 143
 CRAIG 043 054
 CROSLEY 164
 CROWN 043 143
 CURTIS MATHES 116 258 363 143
 CXC 043
 CYBERHOME 015
 DAEWOO 363 043 076 143
 DAYTRON 363 143
 DELL 320 164 363 618
 DIGITAL PROJECTION 570
 DIMENSIA 333
 DREAMVISION 235
 DUKANE 011
 DUMONT 116 073
 DURABRAND 052
 DWIN 257
 DYNASTY 043
 DYNEX 400
 EIKI 187
 ELECTROBAND 001
 ELECTROGRAPH 466
 ELECTROHOME 143 024 076
 ELEKTRA 072
 ELEMENT 363 494 526 622 690
 EMERSON 028 048 043 116 363 050 051 076 143 154 052 514
 ENVISION 116
 EPSON 324 590
 ESA 323
 EVERVUE 755
 FISHER 007 057
 FUJITSU 246 198 410
 FUNAI 028 043 052
 FUTURETECH 043
 GATEWAY 242 268
 GE 073 116 008 009 034 056 333 363
 GEM 391
 GIBRALTER 116 073
 GO VIDEO 026
 GOLDSTAR 113 116 102 363 112 143
 GPX 674
 GRUNPY 028 043
 HAIER 363 501 623 749
 HALL MARK 363
 HANNSPREE 349 381
 HARLEY DAVIDSON 028
 HARVARD 043
 HELLO KITTY 076
 HIMITSU 043
 HISENSE 419 442 619 630 631 363 752

HITACHI 011 166 009 143 072 363 250 587 613 670 749
 HP 421
 HUMAX 518
 ILO 472 399
 INFINITY 164
 INFOCUS 333 230 547 548 470 532 564 595 733
 INITIAL 282
 INSIGNIA 350 400 052 164 403 454 457 604 617
 INTEQ 073
 JANEIL 002
 JBL 164
 JCB 001
 JCPENNEY 024 116 008 009 030 065 258 143 333 363
 JVC 038 034 001 210 533 581 639 406 668 701
 KAWASHO 116 001
 KEC 043
 KENWOOD 116 001
 KLEGG 466
 KLOSS 002
 KMC 143
 KNOLL SYSTEMS 230 659
 KONKA 457
 KREISEN 530
 KTV 043 116 143 154
 KURAZAI 072
 LG 363 113 116 102 112 143 569 284 648 741
 LITEON 268
 LODGENET 072
 LOEWE 164 738
 LOGIK 072
 LUXMAN 363
 LXI 166 007 138 052 251 333 164
 MAGNAVOX 164 116 003 363 333 226 390 467 431 594
 MAJESTIC 333 072
 MARANTZ 116 164 281
 MATSUI 164
 MATSUSHITA 080
 MAXENT 242
 MEGATRON 116 011
 MEMOREX 007 072 363
 MGA 116 363 024 028
 MIDLAND 333 073
 MINUTZ 008
 MISAKAI 052
 MITSUBISHI 109 024 028 363 348 450 658
 MONIVISION 017
 MONTGOMERY WARD 333 072
 MOTOROLA 081



MTC 116 363 258
MULTITECH 043
NAD 138
NEC 272 197 116 024 056 019
262 236 281
575 717 758
NET TV 242
NEXUS 620 454
NIKEI 043
NIKKO 116
NIKO 527
NORCENT 390
NUVISION 351 567
OLEVIA 432 363 333
ONKING 043
ONWA 043
OPTOMA 265 249
OPTONICA 019 251
PANASONIC 080 034 056 164
208 359 552 524 607 664
PEERLESS-AV 723 763
PHILCO 116 003 164 363 024
056
PHILIPS 164 038 116 003 363
206 431 333 161
594 629 727 773
PILOT 116
PIONEER 234 116 393 272 520
582 660
PLANAR 728 742 787 788
POLAROID 388 323 328 353 354
355 356 494 387
391 505 506 508 526
PORTLAND 363 143
PRINCETON 004
PRISM 034
PROSCAN 333 722
PROTON 363 112 143 528
PROTRON 392 398 498 499 500
PROVIEW 494
PROX 572
PULSAR 116 073
PYLE HOME 661 662
QUASAR 034 056
RADIO SHACK 019 363 143 043
RCA 333 065 116 363 024 056
161 588 713 751
REALISTIC 007 019 043
REVOLUTION HD 466
RUNCO 073 395 416 072 342
697 698
SAMPO 116 363 242
SAMSUNG 258 050 363 143 333
228 229 515 655
SAMSUX 116
SANSEI 076
SANSUI 400 615 454 762

SANYO 007 166 057 187 511 266
657 750
SCEPTRE 276 699
SCOTCH 116
SCOTT 028 043 048 143 363 497
SEARS 030 363 007 028 057 143
333 166 138
SEIKI 690
SELECO 205 011
SEURA 704
SHARP 251 019 028 363 143 308
684 692 735
765 766
SHENG CHIA 081
SHERWOOD 349
SHOGUN 116
SIGNATURE 072
SILO 001
SIMPSON 003
SKYVUE 648
SONY 001 608 646 651 702
SOUNDESIGN 028 363 003 043
SOVA 041
SOYO 528
SPECTRICON 112
SPECTRONIQ 499 500
SQUAREVIEW 052
SSS 363 043
STARLITE 043
SUNBRITE 633 634 635 386 605
772
SUPERSCAN 052 081
SUPRA 116
SUPRE MACY 002
SUPREME 001
SVA 328
SYLVANIA 116 003 052 164 333
514 593
SYMPHONIC 052
SYNTAX OLEVIA 432 363 333
TANDY 251
TATUNG 056
TCL 705 749
TECHNICS 034 080
TECHNOL ACE 028
TECHVIEW 045
TECHWOOD 363
TEKNIKA 002 003 363 024 028
043 072 258 143
TELEFUNKEN 037 046 615
TELERENT 072
THOMSON 049 055
TMK 363
TILEVISION 663
TNCI 073
TOSHIBA 138 030 007 258 325
230 703

TOTEVISION 143
UNIVERSAL 008 009
UPSTAR 708
VENTURER 721
VICTOR 038
VIDIKRON 174 164 188 192 342
VIDTECH 363
VIEWSONIC 242 389 720
VIKING 002
VIORE 472 592 258
VISCO 526
VITO 363
VIZIO 386 387 624 625 675
WARDS 363 008 009 019 028 072
143 164 034
W BOX TECHNOLOGIES 731
WESTINGHOUSE 076 276 435
001 280 690 695
YAMAHA 116 363 370
YORK 363
YUPITERU 043
ZENITH 363 073 072
ZONDA 112

TV-LCD & PLASMA TVS

ACCURIAN 036
AD NOTAM 672
ADVENT 247 388
AKAI 404 475 323 387 391 615
AOC 116 363 616
APEX 572
APEX DIGITAL 006
AQUAVISION 573 574 686
ASTAR 477
AUDIOVOX 454 388 076
AVION 441
AXION 039
BENQ 600
CHANGHONG 247
COBY 641 671
CYBERHOME 015
DAEWOO 076 363
DELL 320 164 363
DURABRAND 052
DWIN 257
DYNEX 400
ELECTROGRAPH 466
ELEMENT 363 494 526 622
EMERSON 514 363 076 052
ESA 323
FUJITSU 246 198
FUNAI 052
GATEWAY 242 268
GO VIDEO 026
HAIER 363 501 623
HANNSPREE 349 381
HISENSE 419 442 619 630 631

HITACHI 011 363 613 670
HP 421
HUMAX 518
ILO 472
INFOCUS 547 470
INITIAL 282
INSIGNIA 350 400 052 164 403
454

TV-LCD & PLASMA TVS

ACCURIAN 036
AD NOTAM 672
ADVENT 247 388
AKAI 404 475 323 387 391 615
AOC 116 363 616
APEX 572
APEX DIGITAL 006
AQUAVISION 573 574 686
ASTAR 477
AUDIOVOX 454 388 076
AVION 441
AXION 039
BENQ 600
CHANGHONG 247
COBY 641 671
CYBERHOME 015
DAEWOO 076 363
DELL 320 164 363
DURABRAND 052
DWIN 257
DYNEX 400
ELECTROGRAPH 466
ELEMENT 363 494 526 622
EMERSON 514 363 076 052
ESA 323
FUJITSU 246 198
FUNAI 052
GATEWAY 242 268
GO VIDEO 026
HAIER 363 501 623
HANNSPREE 349 381
HISENSE 419 442 619 630 631
HITACHI 011 363 613 670
HP 421
HUMAX 518
ILO 472
INFOCUS 547 470
INITIAL 282
INSIGNIA 350 400 052 164 403
454 457 604 617
JVC 038 210 581 639 668
KLEGG 466
KONKA 457
KREISEN 530
LG 363 569 113 116 284 648
LITEON 268
LOEWE 164

MAGNAVOX 164 363 226 390
 467 431
 MARANTZ 116 164 281
 MAXENT 242
 MITSUBISHI 363
 NEC 272 262 575
 NEXUS 620 454
 NIKO 527
 NORCENT 390
 NUVISION 351 567
 OLEVIA 432 363 333
 PANASONIC 080 164 208 552
 524 664
 PHILIPS 164 363 431 161 594
 629
 PIONEER 234 393 272 520 582
 660
 POLAROID 388 323 328 353 356
 494 387 391 505 506
 PRINCETON 004
 PROTON 528
 PROTRON 392 398 498 499 500
 PROVIEW 494
 PROX 572
 PYLE HOME 661 662
 RCA 333 363 161 588
 REVOLUTION HD 466
 RUNCO 395 416 697 698
 SAMPO 363 242
 SAMSUNG 258 228 229 515 655
 SANSUI 400 615
 SANYO 007 166
 SCEPTRE 276 699
 SEIKI 690
 SHARP 251 363 684 692
 SHERWOOD 349
 SONY 001 608 651
 SOVA 041
 SOYO 528
 SPECTRONIQ 499 500
 SUNBRITE 633 634 635 386
 SUNBRITE TV 605
 SVA 328
 SYLVANIA 052 164 333 514
 SYMPHONIC 052
 SYNTAX OLEVIA 432 363 333
 TATUNG 056
 TECHVIEW 045
 TELEFUNKEN 615
 TILEVISION 663
 TOSHIBA 138 258 325
 VIEWSONIC 242 389
 VIORE 472 592
 VISCO 526
 VITO 363
 VIZIO 386 387 624 625 675
 WESTINGHOUSE 076 276 435

001 690 695
 YAMAHA 116 363
 ZENITH 363 073 072

TV-PROJECTION TVS

AKAI 404 475
 DAEWOO 076
 EPSON 324
 HITACHI 011
 INFOCUS 333 548
 JVC 038
 LG 363
 LOEWE 164
 MAGNAVOX 164 333
 MITSUBISHI 109
 OPTOMA 265
 PANASONIC 080 524
 PHILIPS 164 431
 RCA 333
 SAMSUNG 258
 SANYO 166 007 187
 SHARP 251
 SONY 001
 TOSHIBA 138
 ZENITH 363 073 072

TV-PROJECTORS

AVIELO 627 628
 BENQ 423
 BOXLIGHT 266
 DELL 618
 DIGITAL PROJECTION 570
 DREAMVISION 235
 EPSON 590
 FUJITSU 410
 HITACHI 250
 INFOCUS 230 532 564 595 726
 JVC 533 406 701
 KNOLL SYSTEMS 230 659
 MARANTZ 281
 MITSUBISHI 348 658
 NEC 236 281
 OPTOMA 249
 PANASONIC 359 607
 RUNCO 342
 SANYO 511 266 657
 SELECO 205
 SHARP 308
 SIM2 205
 SONY 646 702
 TOSHIBA 230
 VIDIKRON 342 174 188 192
 YAMAHA 370

AUDIO

ADCOM 082 092 225 161 269
 356

AIWA 018 104 202 203 213 211
 188
 AKAI 189
 ANTHEM 335 337
 ARAGON 687
 ARCAM 141 077
 ATLANTIC TECHNOLOGY 342
 AUDIO FILE 071
 B & K 096 097
 BOSE 070 224
 BOSTON ACOUSTICS 447
 CAMBRIDGE AUDIO 684
 CARVER 006 028 061 071 201
 214 226 185 013
 077 284
 CARY AUDIO DESIGN 378
 CITATION 148
 CLARION 026
 DENON 340 109 215 230 234 330
 679 774
 DIGITAL PROJECTION 660
 DVICO 570
 ELAN 057 290
 ENLIGHTENED AUDIO 099 098
 ESCIENT 451
 FISHER 214 182
 FLEXTRONICS 378
 FOSGATE AUDIONICS 148 342
 GOLDSTAR 008
 HARMAN KARDON 318 148 233
 077 028 118
 HITACHI 020
 INTEGRA 275 017 046 108 080
 209 381
 JAMO 399
 JCPENNEY 216
 JVC 163 191 114 279 291
 KENWOOD 026 066 145 192 182
 005 280 374
 KLEGG 686
 KLH 331
 KLIPSCH 687
 KOSS 216
 KRELL 072 384 672
 LEXICON 357 120 235 236 237
 360
 LINN 124 377
 LUXMAN 009 139 052 165 115
 004
 MAGNAVOX 086 164 152 077
 MARANTZ 006 028 031 040 063
 185 186 265 289
 492 712 719
 MCINTOSH 238 286 311
 MERIDIAN 100 012 013 628
 MITSUBISHI 242 204
 MONDIAL 157 158 042 043 081

112
 MYRYAD 077
 NAD 186 113
 NAKAMICHI 040 244 245 172
 183 287
 NEC 176
 NILES 403
 ONKYO 046 275 017 108 080 209
 381
 OPTIMUS 026 041
 OUTLAW 342
 PANASONIC 032 195 219 177
 292 626
 PARASOUND 129 130 132 261
 294 295 333 334
 PHILIPS 249 250 063
 PIONEER 480 014 039 044 069
 168 116 035 063 198
 PROCEED 144 268
 RCA 010 048 117 156 067 288
 REALISTIC 019 073 075 095
 ROKU 739
 ROTEL 083 074 085
 SAMSUNG 016
 SANSUI 040 048 110 063 065
 228
 SANYO 214
 SCOTT 019
 SHARP 026 094 175
 SHERWOOD 024 102 106 447
 370
 SONY 001 018 247 248 166 101
 184 218 271
 560 612
 SOUNDESIGN 036
 SUNFIRE 344 345 182
 TEAC 005 019 049 040 212 217
 TECHNICS 122 176 193 219 178
 177 200 257 262
 THETA DIGITAL 136
 TOSHIBA 060 087 198 278
 VIZIO 551
 YAMAHA 205 026 253 169 067
 173 264 232 089
 264 274 715 717 644 695 738
 756 661
 ZENITH 143 210

AUDIO-SOUNDBAR

ARCAM 100
 BELL'O DIGITAL 534
 BOSE 799 548
 BOWER & WILKINS 467
 CAMBRIDGE AUDIO 815
 DEFINITIVE TECHNOLOGY 582
 703 537
 DENON 728

DYNEX 802
 ENERGY 602
 HARMAN KARDON 531
 ILIVE 730 803 538
 INSIGNIA 802
 INTEGRA 741
 JBL 531
 KLIPSCH 602 797 798 540 543
 544 545
 LG 700 541
 MAGNAVOX 520
 MARTINLOGAN 763 517
 ONKYO 557
 PANASONIC 257
 PARADIGM 618 708 758 517
 PEERLESS-AV 558
 PHILIPS 727 526
 PINNACLE 606
 POLK AUDIO 605 732
 PYLE 518
 RCA 521
 SAMSUNG 522
 SENTRY 729
 SHARP 801 546
 SONY 529
 SPEAKERCRAFT 562
 TOSHIBA 608
 VIZIO 665
 YAMAHA 568 644 725
 ZVOX 796 535 477

DVD

ACCURIAN 003 268
 ADCOM 157
 ADVENT 005
 AIWA 146
 AKAI 281
 ALLEGRO 091
 ALPINE 098
 AMW 006 007
 ANTHEM 361
 APEX DIGITAL 087 111 115
 ARCAM 122 374
 ASPIRE DIGITAL 008 009
 AUDIOVOX 003 010 014 015 149
 BEL CANTO DESIGN 016
 BLAUPUNKT 111
 BROKSONIC 130
 BUFFALO 264
 CALIFORNIA AUDIO LABS 021
 124
 CAMBRIDGE AUDIO 323 333 360
 CARY AUDIO DESIGN 174 266
 CENTRIOS 019
 CINEVISION 091
 CITIZEN 020
 COBY 260

CYBERHOME 271
 DAEWOO 132
 DENON 173 080 138 329 358
 DIAMOND VISION 037 038 039
 DISNEY 040 096
 DUNE 366
 DURABRAND 091
 DVD 2000 017
 DYNEX 349
 EMERSON 091 143
 ENTERPRISE 074
 ESA 022 143
 FISHER 147
 FUNAI 143
 GATEWAY 222
 GE 027
 GO VIDEO 137 091 220 221 222
 GOLDSTAR 091
 GPX 044 045
 GRADIENTE 021
 GREENHILL 111
 GRUNDIG 083
 HARMAN KARDON 084 140
 HITACHI 101
 HITEKER 087
 ILO 268
 INITIAL 111
 INSIGNIA 143 292 297 091 096
 349 385
 INTEGRA 142 180 280 273 338
 JATON 046
 JBL 084
 JSI 047
 JVC 012
 JWIN 048 050
 KAWASAKI 149
 KENWOOD 151
 KISS 279
 KLH 135
 KONKA 051 052 054 055
 KOSS 047 058 059
 KREISEN 060
 KRELL 104
 LASONIC 061 062
 LEXICON 148
 LG 091 057 074 350
 LITEON 264 265 268
 LOEWE 063
 MAGNAVOX 066 096 282 386
 MALATA 267
 MARANTZ 066 332
 MCINTOSH 125
 MEMOREX 040 096 163
 MERIDIAN 153
 MICROSOFT 027 206
 MINTEK 111 282
 MITO 149

MITSUBISHI 017
 MYRYAD 102 134
 NAD 088 353
 NAKAMICHI 103
 NESA 111
 NEUNEO 067
 NEXXTECH 068
 NORCENT 005 006 007 069 071
 072 073
 ONKYO 076 141 180 273 338
 OPPO 266 341
 OPTIMUS 023
 ORION 130
 ORITRON 058
 PANASONIC 138 144 150 285
 021 346 347 379
 PARASOUND 245
 PHILIPS 066 276 317 344 381
 PHILIPS MAGNAVOX 035 141
 066
 PIONEER 023 099 131 304 337
 354 364 377
 POLAROID 233 284 295 297
 POLK AUDIO 141 066
 PRESIDIAN 003 096
 PRIMA 005
 PRIMARE 193 194
 PRINCETON 078
 PROSCAN 027
 RCA 027 307
 RIO 091
 RJTECH 269
 ROTEL 204
 SAMPO 081 082 085
 SAMSUNG 070 165 137 159 275
 380
 SANSUI 154
 SANYO 147
 SEARS 130
 SENSORY SCIENCE 222
 SHARP 094
 SHERWOOD 245 345 361
 SHINSONIC 033
 SONIC BLUE 091
 SONY 001 033 145 191 286 241
 242 243 340
 343 351 363 368 378 382
 SPECTRONIQ 310
 SUNGALE 090 223
 SUPERSCAN 143
 SVA 092 093
 SYLVANIA 143
 SYMPHONIC 143
 TAG MCLAREN 156
 TASCAM 012
 TATUNG 102
 TEAC 023 270

TECHNICS 138
 TECHWOOD 088
 THETA DIGITAL 023
 THOMPSON 027
 TOSHIBA 130 141 164 188 273
 356
 TRUTECH 293
 URBAN CONCEPTS 035
 US LOGIC 111 282
 VENTURER 149
 VINC 161 308
 VIZIO 375
 X-BOX 027 206
 YAMAHA 089 066 197 138 334
 383
 ZENITH 057 074 091

DVD-BLU-RAY & HD DVD

ANTHEM 361
 CAMBRIDGE AUDIO 360
 DENON 329 358
 INSIGNIA 096 349
 INTEGRA 273 338
 LG 091 350
 MAGNAVOX 096
 MARANTZ 332
 NAD 353
 ONKYO 273 338
 OPPO 341
 PANASONIC 285 346
 PHILIPS 344 381
 PIONEER 304 354 364
 SAMSUNG 275 380
 SHERWOOD 345 361
 SONY 286 340 351 363 368 378
 382
 TOSHIBA 273 356
 VIZIO 375
 YAMAHA 334 383

DVD-DVD RECORDERS

GO VIDEO 220 221 222
 CYBERHOME 271
 ILO 268
 KISS 279
 LITEON 265 268
 MAGNAVOX 096
 PANASONIC 138
 PHILIPS 317
 RCA 027
 SAMSUNG 301
 SENSORY SCIENCE 222
 SONY 191
 TOSHIBA 188 273

DVD-TV/DVD COMBOS

AIWA 146

AKAI 281
 AUDIOVOX 284
 DURABRAND 143
 ESA 143
 FUNAI 143
 INSIGNIA 292 297 143
 MAGNAVOX 282
 MINTEK 282
 POLAROID 284 295 297
 SAMSUNG 165
 SV2000 143
 SYLVANIA 143
 SYMPHONIC 143
 TOSHIBA 130
 TRUTECH 293

DVD-TV/DVD/VCR COMBOS

DURABRAND 143
 EMERSON 143
 ESA 143
 INSIGNIA 143
 MAGNAVOX 143
 PANASONIC 144
 SUPERSCAN 143
 SV2000 143
 SYLVANIA 143
 SYMPHONIC 143
 TOSHIBA 164

DVD-DVD/VCR COMBOS

GO VIDEO 137
 PANASONIC 150
 PHILIPS 066
 RCA 027
 SAMSUNG 137 159
 SANSUI 154
 SONY 145
 TOSHIBA 141
 ZENITH 091

AUX-DVR (TIVO)

CHANNEL MASTER 859
 DSTV 787 788 789 800 786
 SONY 804 805
 SPECO TECHNOLOGIES 879
 TIVO 858
 ZUUMMEDIA 855

AUX-HOME THEATER SYSTEMS

BOSE 347 409 460
 DENON 564
 INSIGNIA 589
 KEF 530
 KOSS 573
 NAD 598
 NIRO 343
 ONKYO 552

PANASONIC 516
 PHILIPS 690 705
 PIONEER 513
 POLKAUDIO 685
 ROTEL 654
 SAMSUNG 571 653
 SHARP 652
 SONY 317 319 321 322 324 697
 TOSHIBA 510
 YAMAHA 644

**AUX-TUNERS & SATELLITE
 RADIOS**

APPLE 917
 BOSE 532 170
 DELPHI 515
 NEXUS AUDIO 751
 PIONEER 556
 RUSSOUND 445
 SIRIUS 555 585 767
 SONY 380
 XM SATELLITE RADIO 515 556
 ZEEVEE 611

AUX-IPOD CONTROLS

APPLE / IPOD 828 824
 BOSE 827
 DENON 559
 DLO 418
 GRIFFIN 835
 KENSINGTON 825
 MARANTZ 834
 ONKYO 833
 SONANCE 831

AUX-MEDIA PCS

HP 820
 JADOO TV 915
 ROKU 565

AUX-GAMING SYSTEMS

MICROSOFT/XBOX 851
 MICROSOFT/XBOX 360 826
 SONY/PS2/PS3 829 498

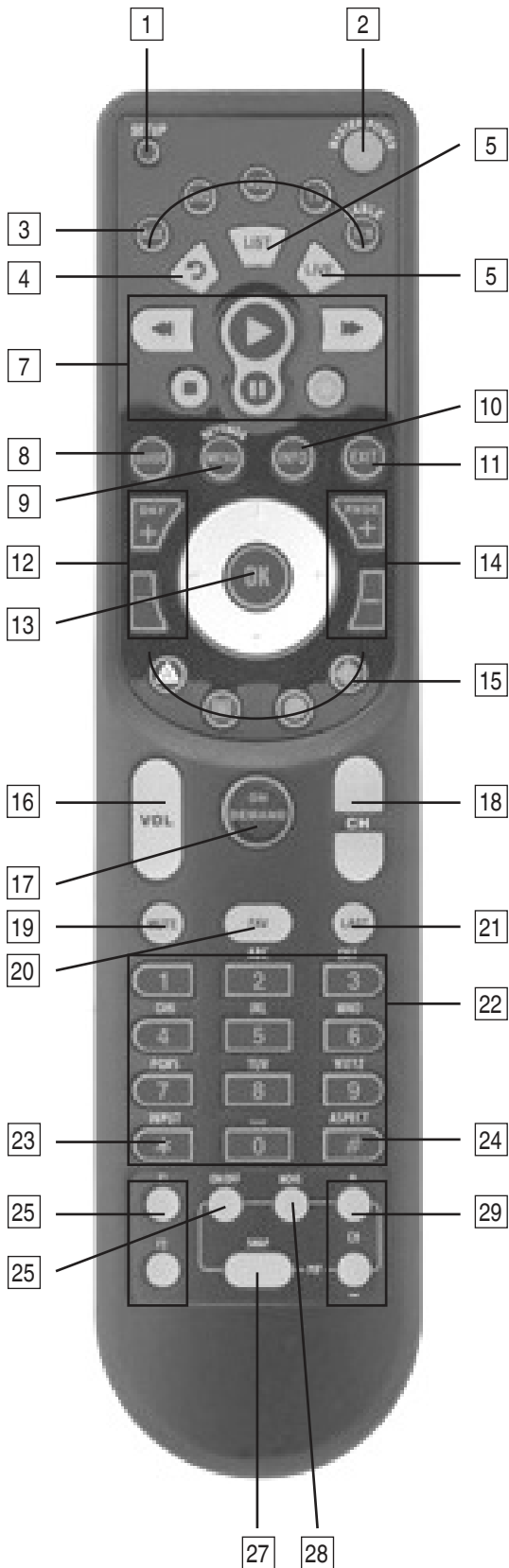
AUX-LIGHTING CONTROLS

COLORADIO VNET 849
 CYRON 436
 LEVITON 850
 LIGHTOLIER CONTROLS 848
 LITE TOUCH 843 844
 LUTRON 841 839 341 435
 RAKO 846 847
 X-10 842 840 845

**AUX-DIGITAL TO ANALOG
 CONVERTER BOX**

CISCO 577
 DIGITAL STREAM 609
 SONY 646 647

Titan Remote



1. **SETUP**—Use for all programming sequences.
2. **MASTER POWER**—Press **POWER** once to turn on or off a home theater device.
3. **AUX, DVD, AUD, TV, STB**—Press **AUX, DVD, AUD, TV,** or **STB** once to select a home entertainment device to control. Each key has a red LED that blinks each time a key is pressed to indicate the current operating mode.
4. **SKIP BACK**—Press **SKIP BACK** to instantly replay the last 7 seconds of the program you are watching.
5. **LIST**—Press **LIST** once to display a list of recorded programming on your DVR.
6. **LIVE**—Press **LIVE** to return to watching live TV.
7. **CONTROL PLAYBACK**—Use these keys to control playback of video or audio files relating to DVR, DVD, VCR, or CD devices.
8. **GUIDE**—Use **GUIDE** to display the program guide available from your service provider.
9. **MENU**—Use **MENU** to display the options menu of the home theater device you are controlling.
10. **INFO**—Use **INFO** to display the current channel and program information.
11. **EXIT**—Use **EXIT** to directly exit menus, guides, and applications.
12. **DAY**—Use **DAY+** (or **DAY-**) to move a day forward (or back) on your program guide.
13. **OK**—Use the Cursor keys to move the cursor in the program guide and menu screens and to navigate within the interactive service. Use **OK** to choose options, PPV events, and to tune to programs from the program guide.
14. **PAGE**—Use **PAGE+** (or **PAGE-**) to page up (or page down) through menu screens and the program guide.
15. **A, B, C, D**—Use **A, B, C,** or **D** as shortcuts to access additional features available on set-top box menu screens, program guide, and interactive applications.
16. **VOLUME**—Use **VOL+** (or **VOL-**) to raise (or lower) the audio volume.
17. **ON DEMAND**—Press **ON DEMAND** for direct access to On-Demand programming and other interactive services.
18. **CH**—Use **CH+** (or **CH-**) to select the next higher (or lower) channel. For DVD players, use these keys to skip forward (or reverse) through chapters. For amplifiers/receivers, use these keys to select the next higher (or lower) preset station.
19. **MUTE**—Press **MUTE** once to turn sound off; press again to turn sound back on.
20. **FAV**—Use **FAV** to cycle through your favorite channels stored on your service provider's set-top box.
21. **LAST**—Use **LAST** to return to previous channel.
22. **NUMBER KEYPAD**—Use the keypad numbers (**1–9,** and **0**) to directly tune channels (e.g., 09). For amplifiers/receivers, use the keypad numbers to select inputs 1 through 10.
23. **INPUT**—In CBL mode, press **INPUT** to view other video sources (A or B) instead of cable. In all other modes, use **INPUT** to select an input source for that device.
24. **ASPECT**—Press **ASPECT** once to change the aspect ratio (4:3 or 16:9) on your STB or TV.
25. **F1, F2**—These are macro keys that can be customized by you or your service provider.
26. **ON/OFF**—Use **PIP ON/OFF** to open or close PIP window.
27. **SWAP**—Use **SWAP** to swap the primary viewing channel with the PIP channel. For a DVR/PVR, SWAP can be used to switch the active channel tuner.
28. **MOVE**—Use **MOVE** to move the PIP window location.
29. **CH**—Press **PIP+/PIP-** to change the PIP channel.

The Titan universal remote control comes pre-programmed to operate the set-top box that is supplied by your service provider. In addition, Titan can be programmed to control four (4) additional home theater equipment devices.

There are two ways you can program your remote:

- Program your remote using the Brand Search Method.
- Program your remote using the Auto Search Method.

Brand Search Method

1. Turn on all of the devices that you wish to control.
2. On the remote control, press the mode key that you wish to program once (**AUX**, **DVD**, **AUD**, or **TV**); it blinks once.
3. Press and hold **SETUP** until the mode LED blinks twice.
4. Use the 5-digit manufacturer codes supplied following these instructions to locate device type and brand name for the device you wish to control. Enter the first 5-digit code for your device. If performed correctly, the mode LED blinks twice.

- If the selected mode LED emits a long blink, the entry is invalid. Repeat steps 2 through 4 and try entering the same code again.

5. Aim the remote control at the device and press **POWER** once. The device should turn off. If it does not, repeat steps 2 through 3, trying each code for your brand until you find one that works. If it still does not respond, try the "Auto Search Method."

*- If the device does not have a **POWER** key, press the **Play** key. Repeat steps 2 through 5 for another mode and/or key or press and hold **SETUP** to exit programming.*

TV set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
AUD set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DVD set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
AUX set up code number	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Auto Search Method

If your home entertainment device does not respond to the Titan Remote Control after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code.

For example, to search for a code for your TV:

1. Turn on your TV.
2. On the remote control, press **TV** once; it blinks once. Then press and hold **SETUP** until the TV key blinks twice.
3. Enter **9 9 1**. The **TV** key blinks twice.
4. Enter one of the following four digits:
 - a. Set-top boxes (cable, satellite, etc.)—**0**
 - b. TV—**1**
 - c. DVD/VCR/DVR—**2**
 - d. Audio Devices—**3**
5. Aim the remote control at the TV and press **POWER** once.
6. Press and release the **CH+** key continuously, then stop when the TV turns off.

-In the search mode, the remote control sends IR codes from its library to the selected device, starting with the most popular code first.

7. Press **POWER**. The TV should turn on, then press **SETUP** to lock in the code.

*-If the TV does not turn on during step 6, then slowly press and release **CH-** to go back through the codes. Press **SETUP** when the TV turns on.*

8. To search for the codes of your other devices, repeat steps 1 through 6, but substitute the appropriate key (e.g., **AUX**, **DVD**, **AUD**, or **STB**) for the device you are searching for.

Programming Volume lock

Volume Lock allows you to set your remote to direct all volume commands to whichever home theater device you designate as your audio source. By default, Global (All) Volume Lock is set to TV, so you can control TV volume while in any mode on your remote. You can also perform Volume Lock on a selected device or set of devices to set Volume Lock to function on some modes, but not on others.

Locking all Volume Control to a Single Device

To change the Global Volume Lock setting from TV (default) to another device, follow these steps:

1. Press and hold **SETUP** until the mode LED blinks twice.



2. Enter **9 9 3**. The mode LED blinks twice.
3. Press **VOL+** once. The mode LED blinks once.
4. Press the mode key for the device that you wish volume functions to control. The mode LED blinks twice.

Now pressing **VOL+**, **VOL-**, or **MUTE** controls only that device's volume, regardless of operating mode.

Locking Volume Controls for Specific Device Modes

To set Volume Lock to occur for some device modes, but not others, you must first follow the steps under "Unlocking All Volume Locks." Then follow the steps below:

1. Press the mode key for the device that you wish volume functions to control.
2. On the remote control, press and hold **SETUP** until the last-selected device key blinks twice.
3. Enter **9 9 3**. The mode LED blinks twice.
4. Press each mode key that relates to the devices that you do not use for volume control. These will be the modes in which the volume functions control the device related to the mode key you pressed in step 1. Any mode omitted from this step will have all volume controls assigned to that mode's device.
5. Press **SETUP** to save. The mode LED blinks twice.

Unlocking all Volume Locks

Performing these instructions sets independent volume control for all programmed devices (e.g., when in DVD mode, the VOL and MUTE keys send commands to the DVD player).

1. On the remote control, press and hold **SETUP** until the mode key LED blinks twice.
2. Enter **9 9 3**. The last-selected device key blinks twice.
3. Press **VOL-** once. The mode LED blinks four times.

Now, volume functions are controlled through whichever device mode is active on the remote control.

Programming Channel lock

By default, the remote control's channel-control capabilities are locked to the set-top box supplied by your service provider. The affected keys are **1-0**, **CH+**, **CH-**, and **LAST**. This will guarantee that you do not inadvertently change a channel on your TV or VCR while watching broadcast programming on your set-top box. However, you can de-activate this feature to allow full access to these keys to control the device associated with the active mode.

Locking all Channel Control to one Device

To lock all channel-control functions to a specific device, follow these steps:

1. Press and hold **SETUP** until the mode LED blinks (e.g., TV) twice.
2. Enter **9 7 3**. The mode LED (e.g., TV) blinks twice.
3. Press **CH+** once. The mode LED (e.g., TV) blinks once.
4. Press the mode key for the device that you want to use for channel-changing. The mode LED blinks twice.

Now, regardless of what mode you select, the channel keys will only change channels on the assigned device.

Locking Channel Control for Specific Device Modes

To set Channel Lock for some device modes, but not others, you must first follow the steps under "Unlocking Channel Control." Then follow the steps below:

1. Press the mode key that corresponds to the device you wish with to command for channel-changing functions. The mode LED (e.g., TV) blinks once.
2. Press and hold **SETUP** until the mode LED (e.g., TV) blinks twice.
3. Enter **9 7 3**. The mode LED (e.g., TV) blinks twice.
4. Press each mode key that you do not use for channel-changing functions. These are the modes in which the channel-changing functions will control the device related to the mode key you pressed in step 1. Any mode omitted from this step has all channel controls assigned to that mode's device.
5. Press **SETUP** to save. The mode LED blinks twice.

Unlocking Channel Control

To unlock Channel Lock and thus allow the channel control functions to work with the device associated to the active operating mode, follow these steps:

1. Press and hold **SETUP** until the mode LED blinks twice.

2. Enter **9 7 3**. The mode LED blinks four times.
3. Press **CH-** once. The mode LED blinks four times.

Now the channel functions correspond to the active mode (e.g., press CH+ in TV mode and the TV changes channel accordingly).

Programming Macro keys

The Titan Remote Control includes two macro keys (**F1** and **F2**, located directly below the **INPUT** key at the bottom of the remote). Macros allow you to record a series of key-presses and have the whole series of functions execute each time the related Macro key is pressed. For example, you can set up a key macro to power on your TV and DVD player, change inputs on the TV, and go to the main menu on the DVD player all with the touch of one macro key. If you want to change the macros stored in a previously programmed macro key, you'll need to clear the key first (see "Clearing a Macro Key").

Programming a Macro key

1. On the remote control, press and hold **SETUP** until the mode LED blinks twice.
2. Enter **9 9 5**. The mode LED blinks twice.
3. Select a macro key (for example, **F1**) and press it once. The mode LED blinks once.
4. Press the key sequence you want to program into the macro. For example, to turn on your TV and raise its volume, press **TV, POWER, VOL+, VOL+, VOL+....**

-You can program up to 15 key presses into one macro.

5. Press and hold **SETUP** until it blinks twice. Now the macro is saved to the assigned macro key.
6. To add another macro, repeat steps 1 through 5 for the other macro key and the new key sequence that you wish to assign to that macro key.

-Programming more than five macros on the same macro key overwrites previous settings.

Clearing a Macro key

1. On the remote control, press and hold **SETUP** until the mode LED blinks twice.
2. Enter **9 9 5**. The mode LED blinks twice.
3. Press the macro key you want to clear once.
4. Press and hold **SETUP** until the mode LED blinks twice.

This macro key is now clear and ready for reprogramming.

TITAN CODES	31388 31641	GARRARD 30463	NOVA 31389
AUDIO AMPLIFIER CODES	ALCO 31390	HARMAN/KARDON 30110 30189	ONKYO 30842 31298 31320
BOSE 30674	AMC 31077	30891 31289 31306 32241	31531 31805 31905
CARVER 30892	AMPHION MEDIA WORKS 31563	HITACHI 31273 31801	OPTIMUS 31023 30186 30531
DURABRAND 31561	AMW 31563	INSIGNIA 31030 31077 31893	30670 31074
GE 30078	ANAM 31609 31074	32169 32175	ORITRON 31366
HARMAN/KARDON 30892	APEX DIGITAL 31257 31430	INTEGRA 31298 31320 31805	PANASONIC 31308 31518 30367,
JVC 30331	31774	JBL 30110 31306	31288 31316 31548 31633 31763
LEFT COAST 30892	ARCAM 31189 31212	JVC 31058 30074 31374 31495	PHILIPS 31189 31269 30189
LENOXX 31561	AUDIO CONTROL 31212	31871	30391 31266
MARANTZ 30892	AUDIOTRONIC 31189	KENWOOD 31313 30186 31670	PIONEER 31023 30014 30150
MCINTOSH 30251	AUDIOVOX 31390	KLH 31390 31428	30244 30531 30630 31123 31384
OPTIMUS 30395, 30823	B & K 30820	KOSS 31366	POLAROID 31508
PHILIPS 30892	BK 30702	LG 31293 32197	POLK AUDIO 30189 31289
PIONEER 30823	BOSE 30639 31253 31629 31841	LINN 30189	PROSCAN 31254
POLK AUDIO 30892	31933	MAGNAVOX 31189 31269 30189	RCA 31023 31609 31254 30531
RCA 30823	CAMBRIDGE SOUNDWORKS	30391 30531 31514	31074 31123 31390 31511
REALISTIC 30395	31370	MARANTZ 31189 31269 30189	RIO 31869
SOUNDESIGN 30078	CAPETRONIC 30531	31289	ROTEL 30793
VICTOR 30331	CARVER 31189 30189 30121	MCINTOSH 31289	SAMSUNG 31295
WARDS 30078	31289	MICROMEGA 31189	SANSUI 31189 30189
YAMAHA 30354	COBY 31389	MITSUBISHI 31393	SANYO 31251 31469 31801
	DAEWOO 31250	MYRYAD 31189	SHARP 30186 31286
AUDIO RECEIVER CODES	DENON 31360 30121 31142	NAD 30320	SHARPER IMAGE 31556
ADC 30531	31306 32857	NAKAMICHI 31313	SHERWOOD 30491 30502 31077
AIWA 31405 30189 30121 31243	FISHER 31801	NORCENT 31389	31423 31653 31905 32169



SHERWOOD NEWCASTLE 32169
SONIC BLUE 31869
SONY 31759 31058 31258 30793
31558 31658 31758 31822 31858
SOUNDESIGN 30670
STEREOPHONICS 31023
SUNFIRE 31313
TEAC 30463 31074 31390 31528
TECHNICS 31308 31518 31633
THORENS 31189
TOSHIBA 31123 31788
VENTURER 31390
VICTOR 30074
WARDS 30189, 30014
YAMAHA 30176 30186 30376
31176 31276 31331 31375 31376
31476 31815 32061
ZENITH 30857 31293

AUDIO ACCESSORY CODES

ACCURIAN 31106
ALTEC LANSING 30607 31056
APPLE 31115
DLO 31155
GPX 32113
GRIFFIN 31891
IDECK 31106
IHOME 32152
ILIVE 32113
MONITOR AUDIO 31106

CABLE BOX/CONVERTER CODES

ABC 00003 00008
ADB 02586
AMINO 01602 01822
CISCO 01877 00877
COMCAST 01982
DIGEO 01187
DIRECTOR 00476
GENERAL INSTRUMENT 00476
00810 00276 00003
GOLDSTAR 00144
I3 MICRO 01602
JERROLD 00476 00810 00276
00003
MEMOREX 00000
MOTOROLA 01376 00476 00810
00276 01187 01106
MYRIO 01602 01822
PACE 01877 00237 00008
PANASONIC 00000 00107 01982
PARAGON 00000
PHILIPS 01305 00317
PIONEER 01877 00877 00144
00533
PULSAR 00000
QUASAR 00000

RUNCO 00000
SAMSUNG 00144
SCIENTIFIC ATLANTA 01877 00877
00477 00008
SEJIN 01602
SONY 01006
STARCOM 00003
SUPERCABLE 00276
TORX 00003
TOSHIBA 00000
ZENITH 00000 00525

CABLE/DVR/PVR COMBO CODES

AMINO 01822
CISCO 01877
COMCAST 01982
DIGEO 01187
GENERAL INSTRUMENT 00810
JERROLD 00810
MOTOROLA 01376 00810 01187
01106
MYRIO 01822
PACE 01877 00237
PANASONIC 01982
PIONEER 01877
SCIENTIFIC ATLANTA 01877
SONY 01006
SUPERCABLE 00276

DVD PLAYER CODES

ACCURIAN 20675
ADVENT 21016
AIWA 20641
AKAI 20695 20899 21089
ALCO 20790
ALLEGRO 20869
AMPHION MEDIA WORKS 20872
AMW 20872
APEX DIGITAL 20672 20794 20796
20797 20830 21004 21056 21061
ARRGO 21023
ASPIRE DIGITAL 21168 21407
ASTAR 21489 21678
AUDIOVOX 20790 21121
B & K 20662
BBK 21224
BLUE PARADE 20571
BOSE 22023
BROKSONIC 20695 20868
CALIFORNIA AUDIO LABS 20490
CINEA 20831
CINEVISION 20876 20833 20869
CITIZEN 20695 21277
COBY 20778 20852 21086 21107
21177 21351
CRAIG 20831
CYBERHOME 20816 20874 21023

21024 21129 21502 21537
D-VISION 21173
DAEWOO 20784 20705 20833
20869 21169 21172 21234 21242
21443
DAYTEK 20872
DENON 20490 20634
DESAY 21407
DIGITALMAX 21738
DISNEY 20675 21270
DURABRAND 21127
DVD2000 20521
EMERSON 20591 20675 20821
21268
ENTERPRISE 20591
ESA 20821 21268 21443
FISHER 20670
FUNAI 20675 21268
GATEWAY 21158
GE 20522 20815
GO VIDEO 20744 20715 20741
20783 20833 20869 21075 21099
21144 21148 21158 21304 21443
21730
GOLDSTAR 20741
GPX 20769
GRADIENTE 20490
GRUNDIG 20539
HARMAN/KARDON 20582 20702
HELLO KITTY 20831
HITACHI 20573 20664 21247
HITEKER 20672
HUMAX 21588
ILO 21348 21472
INITIAL 21472
INSIGNIA 21268
INTEGRA 20571 20627 21769
JBL 20702
JENSEN 21016
JSI 21423
JVC 20558 20623 20867 21164
21275 21550 21602
JWIN 21049
KAWASAKI 20790
KENWOOD 20490 20534
KLH 20790 21149
KOSS 21423
LASONIC 21173
LECSON 21533
LENOXX 21127
LG 20591 20741 20869
LITEON 21058 21158 21440 21656
21738
LOEWE 20511
MAGNAVOX 20503 20539 20646
20675 20821 21268 21354 21472
21506

MARANTZ 20539
 MCINTOSH 21533 21273
 MEMOREX 20695 20831 21270
 MICROSOFT 20522 22083
 MINTEK 21472
 MITSUBISHI 21521 20521
 NAD 20741
 NEC 20785
 NEXXTECH 21402
 NORCENT 21003 20872 21107
 21265
 ONKYO 20503 20627 21769
 OPPO 20575 21224
 PANASONIC 20503 20490 20632
 20703 21362 21462 21490 21641
 21762
 PHILCO 20675
 PHILIPS 20503 20539 22056
 20646 20675 20854 21260 21267,
 21340 21354 22084
 PIANODISC 21024
 PIONEER 20525 20571 20142
 20631 20632 21460
 POLAROID 21061 21086
 POLK AUDIO 20539
 PRESIDIAN 20675 21738
 PRIMA 21016
 PROCEED 20672
 PROSCAN 20522
 PROVISION 20778
 RCA 20522 20571 20790 20822
 21022 21132 21193 21769
 RIO 20869
 RJTECH 21360
 ROTEL 20623 21178
 SAMPO 20698 20752
 SAMSUNG 20490 20573 20744
 20199 20899 21075
 SANSUI 20695
 SANYO 20670 20695 20873
 SENSORY SCIENCE 21158
 SHARP 20630 20675 20752
 21256 22250
 SHERWOOD 20633 21043 21889
 SHINSONIC 20533
 SONIC BLUE 20869 21099
 SONY 20533 21533 20864 21033
 21070 21431 21516 22043
 SUNGALE 21074
 SUPERSCAN 20821
 SVA 20860 21105
 SYLVANIA 20675 20821 21268
 SYMPHONIC 20675 20821 21268
 TEAC 20790
 TECHNICS 20490 20703
 THETA DIGITAL 20571
 TIVO 21503 21588

TOSHIBA 20503 20695 21045
 21154 21503 21588 21769
 TREDEX 20803 20804
 URBAN CONCEPTS 20503
 VENTURER 20790
 VIZIO 21064 21226
 VOCOPRO 21360
 XBOX 20522 22083
 YAMAHA 20490 20539 20545
 YAMAKAWA 20872
 ZENITH 20503 20591 20741
 20869
 ZOECE 21265

DVR/PVR CODES

ABS 21972
 ALIENWARE 21972
 CYBERPOWER 21972
 DELL 21972
 DIRECTV 20739
 GATEWAY 21972
 GO VIDEO 20614
 HEWLETT PACKARD 21972
 HOWARD COMPUTERS 21972
 HP 21972
 HUGHES NETWORK SYSTEMS
 20739
 HUMAX 20739
 HUSH 21972
 IBUYPOWER 21972
 LINKSYS 21972
 MEDIA CENTER PC 21972
 MICROSOFT 21972
 MIND 21972
 NIVEUS MEDIA 21972
 NORTHGATE 21972
 PANASONIC 20614 20616
 PHILIPS 20739 20618
 PIONEER 21337
 RCA 20880
 REPLAYTV 20614 20616
 SAMSUNG 20739
 SONIC BLUE 20614 20616
 SONY 20636 21972
 STACK 9 21972
 SYSTEMAX 21972
 TAGAR SYSTEMS 21972
 TIVO 20739 20618 20636 21337
 TOSHIBA 21008 21972 21996
 TOUCH 21972
 VIEWSONIC 21972
 VOODOO 21972
 ZT GROUP 21972

SATELLITE SET-TOP BOX CODES

BELL EXPRESSVU 00775

CHAPARRAL 00216
 DIRECTV 01377 00566 00639
 01639 01142 00247 00749 01749,
 01856 01076 01442 01640
 DISH NETWORK SYSTEM 00775
 01505 01775
 DISHPRO 00775 01505 01775
 EHOSTAR 00775 01505 01775
 EXPRESSVU 00775 01775
 GE 00566
 GENERAL INSTRUMENT 00869
 GOI 00775 01775
 HITACHI 01250
 HTS 00775 01775
 HUGHES NETWORK SYSTEMS
 01142 00749 01749 01442
 JERROLD 00869
 JVC 00775 01775
 MITSUBISHI 00749
 MOTOROLA 00869
 NEXT LEVEL 00869
 PANASONIC 00247 00701
 PHILIPS 01142 00749 01749
 01076 01442
 PROSCAN 00566
 RADIOSHACK 00869
 RCA 00566
 SAMSUNG 01377 01142 01276
 01442
 SONY 00639 01639 01640
 STAR CHOICE 00869
 TIVO 01142 01442
 TOSHIBA 00749 01749
 ULTIMATETV 01640
 VOOM 00869
 ZENITH 01856

TV CODES

3M 11616
 ACCURIAN 11803
 ACTION 10873
 ADMIRAL 10093 10463
 ADVENT 10761 10783 10815
 10817 10842 11933
 AIKO 10092
 AKAI 10812 11675 10060 10702
 10030 10672 11207 11676 11903
 11935
 ALARON 10179
 ALBATRON 10700 10843
 AMBASSADOR 10177
 AMERICA ACTION 10180
 ANAM 10180
 AOC 10030 10185 11365 11590
 AOMNI 11623
 APEX DIGITAL 10156 10748
 10879 10765 10767 10890 11217

11943 11991
 ASTAR 11531 11738
 AUDIOVOX 10451 10180 10092
 10623 10802 10846 10875 11937
 11951 11952
 AVENTURA 10171
 AXION 11937
 BELL & HOWELL 10154
 BENQ 11032 11212 11315
 BOXLIGHT 10893
 BRADFORD 10180
 BROKSONIC 10236 10463 10180
 11911 11929 11935 11938
 BYD:SIGN 11309
 CANDLE 10030 10056
 CARNIVALE 10030
 CARVER 10054
 CELEBRITY 10000
 CELERA 10765
 CHANGHONG 10765
 CITIZEN 10060 10030 10092
 10056 11935
 CLAIRTONE 10185
 CLARION 10180
 COMMERCIAL SOLUTIONS
 11447 10047
 CONCERTO 10056
 CONTEC 10180 10185
 CRAIG 10180
 CROSLLEY 10054
 CROWN 10180
 CURTIS MATHES 10047 10054
 10154 10451 10093 10060 10702
 10030 10145 10166 10056 10466
 11147 11347
 CXC 10180
 CYTRON 11326
 DAEWOO 10451 10092 11661
 10623 10661 10672
 DELL 11264 11080 11403 11863
 DENON 10145
 DENSTAR 10628
 DIAMOND VISION 11996 11997
 DIGITAL LIFESTYLES 11765
 DIGITAL PROJECTION INC.
 11482
 DUMONT 10017
 DURABRAND 10463 10180
 10178 10171 11034
 DWIN 10093
 DYNEX 11463 11785 11810
 ELECTROBAND 10000 10185
 ELECTROGRAPH 11755 11623
 ELECTROHOME 10463
 EMERSON 10154 10451 10236
 10463 10180 10178 10171 11963
 11944 11929 11911 11394 10623

10282 10185 10179 10177	KENWOOD 10030	10650	SANYO 10154 10088 10799
EMPRES 11422 11546 11765	KLH 10765 10767 11962	OPTOMA 10887 11348 11674	10893 11142
ENVISION 10030 10813 11365	KONKA 10628 10707 11939	OPTONICA 10093 10165	SCEPTRE 10878 11217 11360
EPSON 10833 10840 11122	11940	ORION 10236 10463 11463	11599
11290 11735	KOST 11483	10179 11911 11929	SCOTCH 10178
ESA 10812 10171 11944 11963	KREISEN 10876	PANASONIC 10250 11480 10051	SCOTT 10236 10180 10178
FISHER 10154	KTV 10180 10030 10185	10650 11291 11310 11410 11941	10179 11711
FUJITSU 10809 10179 10683	LG 11423 10178 10700 10829	11946 11947	SEARS 10047 10054 10154
10853	10856 11325 11663 11993	PENNEY 10047 10156 10051	10156 10178 10171 10056 10179
FUNAI 10180 10171 10179 11271	LLOYD'S 11904	10060 10178 10030 10021 11347	11904 11926
11904 11963	LUXMAN 10056	11926	SHARP 10818 10093 10165
FUTURETECH 10180	LXI 10047 10054 1015,	PETTERS 11523	10386 10491 10688 10851 11602
GATEWAY 11755 11756	10156 10178	PHILCO 10054 10030	11917
GE 11447 10047 10051 10451	MAG 11498	PHILIPS 11454 10054 10690	SHENG CHIA 10093
10178 10021 10282 11347 11917	MAGNAVOX 11454 11866 10054	11154 11483 11744 11961	SHERWOOD 11399
11922	10030 10706 11990 11963 11944	PILOT 10030	SOLE 10813 11366 11483 11623
GIBRALTER 10017 10030	11931 11904 11525 11365 11254	PIONEER 11457 10166 10679	SONY 11100 10000 10834 11317,
GO VIDEO 10886	11198 10802 10386 10179	10866 11260 11398 11717	11685 11904 11925
GOLDSTAR 10178 10030 11926	MARANTZ 11454 10054 10030	PLANAR 11496	SOUNDESIGN 10180 10178
GRUNDIG 10683	10704 10854 10855 11154 11398	POLAROID 11523 10765 10865	10179
GRUNPY 10180 10179	MATSUSHITA 10250 10650	11276 11314 11316 11326 11341	SOVA 11320 11952
H & B 11366	MAXENT 11755 10762 11211	11498 11766 11962 11991 11992	SOYO 11520 11546 11826
HAIER 11034 10768 11748	11714 11757	12002	SPECTRONIQ 11498
HALLMARK 10178	MEGAPOWER 10700	PORTLAND 10092	SQUAREVIEW 10171
HANNSPREE 11348 11745	MEGATRON 10178 10145	PRIMA 10761 10783 10815 10817	SSS 10180
HARLEY DAVIDSON 10179	MEI 10185	11785 11933	STARLITE 10180
11904	MEMOREX 10154 10463 10150	PRINCETON 10700 10717	STUDIO EXPERIENCE 10843
HARMAN/KARDON 10054	10178 10179 10877 11911 11926	PRISM 10051	SUPERSCAN 10093 10864
HARVARD 10180	MGA 10150 10178 10030	PROSCAN 11447 10047 10466	SUPREME 10000
HAVERMY 10093	MICRO 11436	11347 11922	SVA 10748 10768 10865 10870
HELIOS 10865	MIDLAND 10047 10017 10051	PROTON 10178 10466	10872
HELLO KITTY 10451	MINTEK 11603 11990	PROTRON 11320	SYLVANIA 11864 10054 10030
HEWLETT PACKARD 11642	MINUTZ 10021	PROVIEW 10835 11401 11498	10171 11271 11314 11394 11931
11494 11089 11101 11502	MITSUBISHI 11250 10093 10150	PULSAR 10017	11944 11963
HISENSE 10748	10178 10836 10868 11522 11917	PUNEET 11546	SYMPHONIC 10180 10171 11904
HITACHI 11643 11145 10145	MONIVISION 10700 10843	QUASAR 10250 10051 10165	11944
10056 10797 11345 11904 11960	MOTOROLA 10093 10835	10650	SYNTAX 11610 11144 11240
HP 11642 11494 11089 11101	MOXELL 10835	RADIOSHACK 10047 10154	11331
11502	MTC 10060 10030 10056 10185	10180 10178 10030 10056 10165	TANDY 10093
HYUNDAI 11219 11294	MULTITECH 10180	11904	TATUNG 11101 11285 11286
ILO 11286 11603 11684 11990	NAD 10156 10178 10056 10866	RCA 11547 11447 10047 10090	11361 11756
INFINITY 10054	11156	10679 11047 11147 11247 11347	TECHNICS 10250 10051
INFOCUS 10752 11430	NEC 10030 10056 10497 10882	11781 11917 11922 11948 11953	TECHNOL ACE 10179
INITIAL 11603 11990	11398 11704	11958 12002	TECHVIEW 12004
INSIGNIA 11564 10171 11204	NETTV 11755 10762	REALISTIC 10154 10180 10178	TECHWOOD 10051 10056
11326 11517 11641 11710 11963	NIKKO 10178 10030 10092	10030 10056 10165	TECO 11040
12002	NIKO 11581 11618	REVOLUTIONHD 11623	TEKNIKA 10054 10180 10150
INTEQ 10017	NORCENT 10748 10824 11089	RHAPSODY 10185	10060 10092 10056 10179
IX 10877	11365 11590 11591	RUNCO 10017 10030 10497	TELEFUNKEN 10702 10056
JBL 10054	NORWOOD MICRO 11286 11296	10603 11292 11397 11398 11628	THOMAS 11904
JCB 10000	11303	11629 11639 11679 11717	TMK 10178 10056 10177
JENSEN 10761 10815 10817	NTC 10092	SAMPO 11755 10030 10762	TNCI 10017
11299 11933	OLEVIA 11610 11144 11240	SAMSUNG 10812 10060 10702	TOSHIBA 11524 10154 10156
JVC 10053 10650 10731 11253	11331	10178 10030 10056 10766 10814	11256 10060 12006 11945 11936
11302 11633 11774 11923	OLYMPUS 11342	11060 11312 11575 11903 11959	11935 11918 11704 11656 11635
KDS 11498	ONWA 10180	SANSUI 10463 11409 11904	11356 11325 11306 11156 10845
KEC 10180	OPTIMUS 10250 10154 10166	11911 11929 11935	10832 10822 10650

TOSONIC 10185
 TRUTECH 11723
 TVS 10463
 US LOGIC 11286 11303
 VECTOR RESEARCH 10030
 VICTOR 10053
 VIDIKRON 10054 11292 11302
 11397 11398 11628 11629 11633
 VIDTECH 10178
 VIEWSONIC 11755 10797 10857
 10864 10885 11330 11342 11542
 11578 11627 11640 12014
 VIORE 11207 11684
 VIZIO 11758 10864 10885 11499
 11756
 WARDS 10054 10178 10030
 10021 10056 10165 10179 10866
 11156
 WAYCON 10156
 WESTINGHOUSE 10000 11712
 10451 10885 10889 10890 11092
 11282 11577
 WHITE WESTINGHOUSE 10463
 10623
 WYSE 11365
 YAMAHA 10030 10769 10797
 10833 10839 11526
 ZENITH 10017 10463 10178
 11145 10092 11904 11911 11929

TV CODES (LCD)

ACCURIAN 11803
 ACTION 10873
 AKAI 11675 11676 11935
 AOC 11365
 AOMNI 11623
 APEX DIGITAL 10890 11217
 ASTAR 11531 11738
 AUDIOVOX 10180 10802 10846
 10875 11937 11951 11952
 BENQ 11315
 BYD:SIGN 11309
 CITIZEN 11935
 DELL 11264 11080 11863
 DIGITAL LIFESTYLES 11765
 EMERSON 11394 11963
 EMPREX 11422 11546 11765
 ENVISION 10813 11365
 FUNAI 10171
 GO VIDEO 10886
 H & B 11366
 HAIER 11748
 HANNSPREE 11348 11745
 HEWLETT PACKARD 11642
 HITACHI 11643
 HP 11642
 HYUNDAI 11219 11294

ILO 11286 11603 11684 11990
 INITIAL 11603 11990
 INSIGNIA 11564 11204 11517
 11710 12002
 IX 10877
 JENSEN 11299
 JVC 11774
 KREISEN 10876
 LG 11423 10856 11993
 MAGNAVOX 11866 10802 11198
 11365 11990
 MARANTZ 10855
 MAXENT 11755 10762 11211
 11714 11757
 MICRO 11436
 MINTEK 11603 11990
 MITSUBISHI 11250
 NETTV 10762
 NIKO 11581 11618
 NORCENT 11365 11591
 NORWOOD MICRO 11286 11296
 OLEVIA 11610 11144 11240
 11331
 PANASONIC 11480 10650
 11941
 PETTERS 11523
 PHILIPS 11454 11483 11744
 PIONEER 11260
 PLANAR 11496
 POLAROID 11523 11276 11316
 11341 11498 11766
 PRIMA 11785
 PROTRON 11320
 PROVIEW 11401
 PUNEET 11546
 RCA 10047 11781 11958
 REVOLUTIONHD 11623
 RUNCO 11629
 SAMPO 11755 10762
 SAMSUNG 10812 10766 10814
 11575
 SANSUI 11409
 SANYO 11142
 SCEPTRE 10878 11217 11360
 11599
 SCOTT 11711
 SHARP 10818 10093 11602
 SHERWOOD 11399
 SOLE 11366 11483 11623
 SONY 11685
 SOVA 11320
 SOYO 11520 11546 11826
 SUPERSCAN 10864
 SVA 10870
 SYLVANIA 11864 10171 11271
 11314 11394
 SYMPHONIC 10171

SYNTAX 11610 11144 11240
 11331
 TATUNG 11286
 TECHVIEW 12004
 TECO 11040
 TOSHIBA 11524 10822 10845
 11635 11656 12006
 TRUTECH 11723
 US LOGIC 11286
 VIDIKRON 11398 11629
 VIEWSONIC 10857 10864
 10885
 11330 11578 11627 11640
 12014
 VIORE 11684
 VIZIO 11758 10864 10885
 11756
 WESTINGHOUSE 11712 10885
 10889 10890 11282 11577
 WYSE 11365
 TV CODES (PLASMA)
 AKAI 10812 11675 11207
 ALBATRON 10843
 AOC 11590
 AOMNI 11623
 BENQ 11032
 DAEWOO 10661
 DELL 11264 11863
 ELECTROGRAPH 11755 11623
 ESA 10812
 FUJITSU 10809 10683 10853
 FUNAI 11271
 GATEWAY 11755 11756
 H & B 11366
 HAIER 11748
 HELIOS 10865
 HEWLETT PACKARD 11642
 11089
 11502
 HITACHI 11643 10797
 HP 11642 11089 11502
 ILO 11684
 INSIGNIA 11564
 JVC 10731
 LG 11423 10178 10829 10856
 MAGNAVOX 11866
 MARANTZ 10704 11398
 MAXENT 11755 11757
 MITSUBISHI 10836
 MONIVISION 10843
 MOTOROLA 10835
 MOXELL 10835
 NEC 11398 11704
 NETTV 11755
 NORCENT 10824 11089 11590
 NORWOOD MICRO 11303
 PANASONIC 10250 11480

10650
 PHILIPS 10690 11744
 PIONEER 11457 10679 11260
 11398 11717
 POLAROID 10865 11276
 PRIMA 11785
 PROVIEW 10835
 PUNEET 11546
 REVOLUTIONHD 11623
 RUNCO 11398 11679 11717
 SAMPO 11755
 SAMSUNG 10812 11312
 SOLE 11623
 SONY 10000 11317
 STUDIO EXPERIENCE 10843
 SVA 10865
 SYLVANIA 11271 11394
 TATUNG 11101 11285 11756
 TOSHIBA 10650 11704
 US LOGIC 11303
 VIEWSONIC 11755 10797
 VIORE 11207 11684
 VIZIO 11758 11756
 YAMAHA 10797
 ZENITH 10178

**TV/DVD COMBO CODES
 (CONTROLLED BY TV)**

ACCURIAN 11803
 ADVENT 11933
 AKAI 11675 11935
 APEX DIGITAL 11943 11991
 AUDIOVOX 11937 11951 11952
 AXION 11937
 BROKSONIC 11935
 CITIZEN 11935
 DIAMOND VISION 11997
 DYNEX 11810
 EMERSON 11394 11963
 ESA 11963
 FUNAI 11963
 HITACHI 11960
 ILO 11990
 INITIAL 11990
 INSIGNIA 11963 12002
 JENSEN 11933
 KLH 11962
 KONKA 11939 11940
 LG 11993
 MAGNAVOX 11866 11963 11990
 MAXENT 11714
 MINTEK 11990
 PANASONIC 11941
 PHILIPS 11961
 POLAROID 11523 11766 11962
 11991 12002
 PRIMA 11933

RCA 11948 11958 12002
 SAMSUNG 11903
 SANSUI 11935
 SOVA 11952
 SYLVANIA 11864 11394 11963
 TECHVIEW 12004
 TOSHIBA 11524 11635 11935
 12006
 TV/DVD COMBO CODES
 (CONTROLLED BY DVD)
 ADVENT 21016
 AKAI 20695
 APEX DIGITAL 20830
 AUDIOVOX 21121
 BROKSONIC 20695
 CITIZEN 20695
 EMERSON 20675 21268
 ESA 21268
 FUNAI 21268
 HITACHI 21247
 ILO 21472
 INITIAL 21472
 INSIGNIA 21268
 JENSEN 21016
 MAGNAVOX 21268 21472
 MINTEK 21472
 PANASONIC 21490
 PHILIPS 20854 21260
 PRIMA 21016
 RCA 21022 21193
 SAMSUNG 20899
 SANSUI 20695
 SYLVANIA 20675 21268
 TOSHIBA 20695

**TV/VCR COMBO CODES
 (CONTROLLED BY TV)**

AMERICA ACTION 10180
 AUDIOVOX 10180
 BROKSONIC 11911 11929
 EMERSON 10236 11911 11929
 FUNAI 11904
 GE 11917 11922
 GOLDSTAR 11926
 HARLEY DAVIDSON 11904
 HITACHI 11904
 JVC 11923
 LLOYD'S 11904
 MAGNAVOX 11904 11931
 MEMOREX 11926
 MITSUBISHI 11917
 ORION 11911 11929
 PENNEY 11926
 RADIOSHACK 11904
 RCA 11917 11922
 SAMSUNG 11959
 SANSUI 11904 11911 11929

SEARS 11904 11926
 SONY 11904 11925
 SYLVANIA 11931
 SYMPHONIC 11904
 THOMAS 11904
 TOSHIBA 11918 11936
 ZENITH 11904 11911 11929
 TV/VCR COMBO CODES
 (CONTROLLED BY VCR)
 BROKSONIC 21479
 CITIZEN 21278
 CURTIS MATHES 21035
 DAEWOO 21278
 EMERSON 20593 21278 21479
 FUNAI 20000
 GE 20807 21035 21060
 GOLDSTAR 21237
 HARLEY DAVIDSON 20000
 HITACHI 20000
 LLOYD'S 20000
 MAGNASONIC 20593 21278
 MAGNAVOX 20000 20593 21781
 MEMOREX 21237
 MITSUBISHI 20807
 OPTIMUS 20593
 ORION 21479
 PANASONIC 21035
 PENNEY 21035 21237
 QUASAR 21035
 RADIOSHACK 20000
 RCA 20807 21035 21060
 SAMSUNG 21014
 SANSUI 20000 21479
 SEARS 20000 21237
 SONY 20000 21232
 SYLVANIA 21781
 SYMPHONIC 20000 20593
 THOMAS 20000
 TOSHIBA 20845 21145
 ZENITH 20000 21479

VCR CODES

ABS 21972
 ACCURIAN 20000
 ADVENTURA 20000
 AIWA 20037 20000 20124
 ALIENWARE 21972
 AMERICAN HIGH 20035
 AUDIOVOX 20037
 BROKSONIC 20184 21479
 CALIX 20037
 CANON 20035
 CARVER 20081
 CITIZEN 20037 21278
 CRAIG 20037
 CURTIS MATHES 20060 20035
 21035

CYBERPOWER 21972
 DAEWOO 20045 21278
 DELL 21972
 DIRECTV 20739
 DYNATECH 20000
 ELECTROHOME 20037 20043
 ELECTROPHONIC 20037
 EMEREX 20032
 EMERSON 20037 20184 20000
 20043 20593 21278 21479
 21593
 FUJI 20035 20033
 FUNAI 20000 20593 21593
 GARRARD 20000
 GATEWAY 21972
 GE 20060 20035 20807
 21035 21060
 GO VIDEO 20614
 GOLDSTAR 20037 21237
 GRADIENTE 20000
 HARLEY DAVIDSON 20000
 HARMAN/KARDON 20081
 HEWLETT PACKARD 21972
 HITACHI 20000 20089
 HOWARD COMPUTERS 21972
 HP 21972
 HUGHES NETWORK SYSTEMS
 20739
 HUMAX 20739
 HUSH 21972
 IBUYPOWER 21972
 INSTANT REPLAY 20035
 JVC 20067
 KEC 20037
 KENWOOD 20067
 KODAK 20035 20037
 LINKSYS 21972
 LLOYD'S 20000
 LXI 20037
 MAGNASONIC 20593 21278
 MAGNAVOX 20035 20081 20000
 20593 21593 21781
 MARANTZ 20035 20081
 MARTA 20037
 MATSUSHITA 20035
 MEDIA CENTER PC 21972
 MEI 20035
 MEMOREX 20035 20037 20000
 21237
 MGA 20043
 MICROSOFT 21972
 MIND 21972
 MITSUBISHI 20067 20043
 20807
 MOTOROLA 20035
 MTC 20000
 MULTITECH 20000

NEC 20067
 NIKKO 20037
 NIVEUS MEDIA 21972
 NORTHGATE 21972
 OLYMPUS 20035
 OPTIMUS 20037 20593
 ORION 20184 21479
 PANASONIC 20035 20225
 20614
 20616 21035
 PENNEY 20035 20037 21035
 21237
 PHILCO 20035
 PHILIPS 20739 20035 20081
 20618
 PILOT 20037
 PIONEER 20067 21337
 POLK AUDIO 20081
 PRESIDIAN 21593
 PROSCAN 20060 21060
 QUASAR 20035 21035
 RADIOSHACK 20000
 RADIX 20037
 RANDEX 20037
 RCA 20060 20807 20880
 21035 21060
 REALISTIC 20035 20037 20000
 REPLAYTV 20614 20616
 RICAVISION 21972
 SAMSUNG 20739 20045 21014
 SANSUI 20000 20067 21479
 SCOTT 20184 20045 20043
 SEARS 20035 20037 20000
 21237
 SHARP 20807
 SONIC BLUE 20614 20616
 SONY 20035 20032 20033
 20000
 20636 21232 21972
 STACK 9 21972
 SYLVANIA 20035 20081 20000
 20043 20593 21593 21781
 SYMPHONIC 20000 20593
 21593
 SYSTEMAX 21972
 TAGAR SYSTEMS 21972
 TASHIKO 20037
 TEAC 20000
 TECHNICS 20035
 TEKNIKA 20035 20037 20000
 THOMAS 20000
 TIVO 20739 20618 20636 21337
 21996
 TOSHIBA 20045 20043 20845
 21008 21145 21972 21996
 TOTEVISION 20037
 TOUCH 21972

VECTOR 20045
VIDEO CONCEPTS 20045
VIDEOMAGIC 20037
VIEWSONIC 21972
VILLAIN 20000
VOODOO 21972
WARDS 20060 20035 20081
20000
XR-1000 20035 20000
ZENITH 20033 20000 21479
ZT GROUP 21972

VIDEO ACCESSORY CODES

ABS 01272
ALIENWARE 01272
AMINO 01481 02482
AT&T 00858
BUFFALO 01739
CYBERPOWER 01272
D-LINK 01554
GATEWAY 01272
HEWLETT PACKARD 01272
01267
HOWARD COMPUTERS 01272
HP 01272
HUSH 01272
IBUYPOWER 01272
KOOLCONNECT 01481
LINKSYS 01272 01365
MEDIA CENTER PC 01272
MICROSOFT 02049 01272
MIND 01272
MOTOROLA 01998 00858
NIVEUS MEDIA 01272
NORTHGATE 01272
RICAVISION 01272
ROKU 01486
SCIENTIFIC ATLANTA 00858
SMC 01456
SONY 01272 01324 01364
STACK 9 01272
SUREWEST 01481
SYSTEMAX 01272
TAGAR SYSTEMS 01272
TOSHIBA 01272
TOUCH 01272
VIEWSONIC 01272
VOODOO 01272
XBOX 02049
ZT GROUP 01272