

UNIVERSAL REMOTE

8 in 1

URC-L-1870



EN

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Device Brand Code List

TV

VCR

CBL/SAT

CD

DVD

TAPE

TUNER

AUX

Introduction

Thank you for purchasing the URC20-F15DL universal remote control. It has 8 direct device buttons with LCD screen and features the largest infrared code library on the European market. Based on our (patent pending) creative design, it has the easiest and fastest way to “set up directly” by brand name and code no. through the LCD screen even without the manual book.

The URC20-F15DL universal remote control covers almost all brands of Televisions (**TV**), DVD-players (**DVD**), DVR-players (**DVD**), **DVB** (CBL/SAT), (digital) Satellite receivers (CBL/SAT), Cable box (CBL/SAT), Video Recorders (**VCR**), Tuner receivers (**TUNER**), Tape receivers (**TAPE**), CD-players (**CD**), Audio amplifiers (**AMP**) and other Audio (**AUX**). It can operate all main functions of your devices.

You can also use “Auto Search” to scan the code library in case of you can’t find your device brand in the list.

Besides, URC20-F15 can “learn” a new code from an original remote control to supplement the codes in case of code shortage.

“Show View” function scans all channels for you to have a program quick view.

“All off” function can switch off all your devices with one button.

“Macro” function makes several sequent operations with one button for your home theater

“Volume lock” can fix VOL+/VOL- button to control only the amplifier for your home theater.

“Device lock” can prevent the device from being reset until you unlock it.

URC20-F15 has backlight for LCD screen and separate device backlight to show you the currently working device.

“Low battery indication” reminds you when needed to replace the batteries.

“Device Alternation” allows you to set up any device to AUX. E.g. you can set up a TV code to AUX and then you will have 2 TV device keys.

All the set up data will be stored in “back up memory” permanently, you don’t need to be worry about data loss when you replace battery.

The F15DL also has “real time clock” to show your time and AM or PM.

All above mentioned functions show you the URC20-F15D is a advanced, very powerful LCD universal remote control. Please read this user manual carefully prior to using you new LCD remote control.


Code Assignment

Bank	for Device	Initial code	Total of codes
TV	TV	042	372
VCR	VCR	115	170
CBL/SAT	Satellite, Cable, DVB	045	323
DVD	DVD, DVR	006	127
CD	CD	098	120
TUNER	TUNER	075	103
TAPE	TAPE	083	133
AUX	AMP, LD	030	178

Battery Installation

This remote control needs 2 AAA batteries to work with. Fresh Alkaline batteries are strongly recommended. To install the batteries:

1. Turn the remote over, and lift the battery cover off.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.
3. Slide the battery cover back into place.

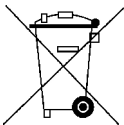
Notice 1. Whenever the batteries needed replacement, the LCD remote will indicate this on the screen with a  message. Please replace the new batteries now.

2. All data you have set up into the unit will be stored in memory even you take off the batteries, but you may need to set the clock again.

Security- and disposal references for batteries:

- Batteries are not included in the delivery!
- Keep children away from batteries. If batteries are being swallowed accidentally, consult a doctor immediately!
- Never bypass batteries.
- Please pay attention to the right polarity (+) and (-) of the batteries! Always replace both batteries at once; do not use old and new batteries together or batteries of different types at the same time.
- Do not open batteries, deform or recharge them!
- There is a risk of injury, in case of leaking batteries!
- Do not throw batteries into the fire.
- Danger of exploding is existent.
- Take exhausted batteries out of the device immediately.
- Take the batteries out of the device, if you do not use it for a long period of time.

With reference to environmental protection:



Packing materials are raw materials and can be used again.

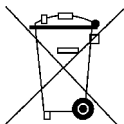
Keep packing materials separate. For more information about recycling contact your local administration.



Old devices do not belong in the domestic refuse!

Dispose of old devices responsibly, and contribute to environmental protection.

Your local administration will inform you about collecting points and opening times.



Old batteries do not belong in the domestic refuse!

Dispose of old batteries accordingly and contribute to environmental protection.

Your local administration will inform you about collecting points and opening times.

Maintenance

Protect the remote control from dirt. Do not use solvents or other aggressive detergents. Clean the case with a damp cloth and dry it well afterwards.

Note:








In case of leaking batteries, wipe the battery compartment with a cloth. Do not insert new batteries straightaway.

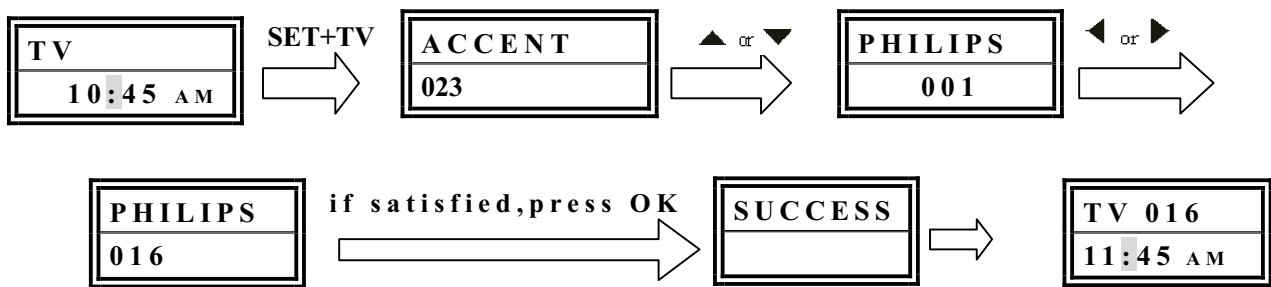
Function Keys

	For you start to set up the remote control or show you the status in LCD		The number keys operate the same as on your original remote control, and maybe also used for entering device codes when set up.
	Let you select the device you want to control.		Works like the TV/Video key on your original TV remote, select the input for TV.
			Works like the Enter on your original remote.
			For TV Fastext.
			Television video, TV and text mixed, Teletext mode, Page hold
			REW (fast reverse), PLAY (operate your DVD, CD ect.), FFWD (fast forward), REC (Record), Stop (Terminate your operation), PAUSE (Pause the function and standby)
	Works like the Channel Up and Down keys on your original remote control.		
	Turns the device on or off.		
	Control the volume like the Volume Up and Down on your original remote control.		Learning function to import instructions from other remote control
	Works like the UP, DOWN, LEFT, RIGHT, OK key on your original remote control for menu function. But during set up mode they are used for cursor, confirm and exit to program your remote control only.		Scans all channel for your program quick view.
	Works like the Menu or OSD (on-screen display) or Memory key on your original remote control		Switches off all your devices with one button only.
	Mute the sound		
	Let you make sequent operations for you home theater.		
	Ends the entry		









Direct Set Up (by Brand and Code)

This revolutionary method lets you directly choose the brand and code in LCD screen, simply set up your remote control even without manual book.

1. Turn on the device (e.g. your television set) you would like to operate. If it is a VCR, please insert a tape.
2. Press and hold the  key on your remote control. Then press (simultaneously) a desired device keys (e.g. )
3. Then release them, the brand will be displayed on the screen.
4. Press the  or  key to select the brand of your device (e.g. your TV brand: **Philips**)
5. Check the function of the keys. If none of the keys of your new remote control can work, or most of the keys work improperly, please try other code by the  or  key to choose, until all basic functions operated properly.
6. If you are satisfied with the code, just press the  key to save it. LCD shows “**SUCCESS**” and then finishes the set up.














Remark:

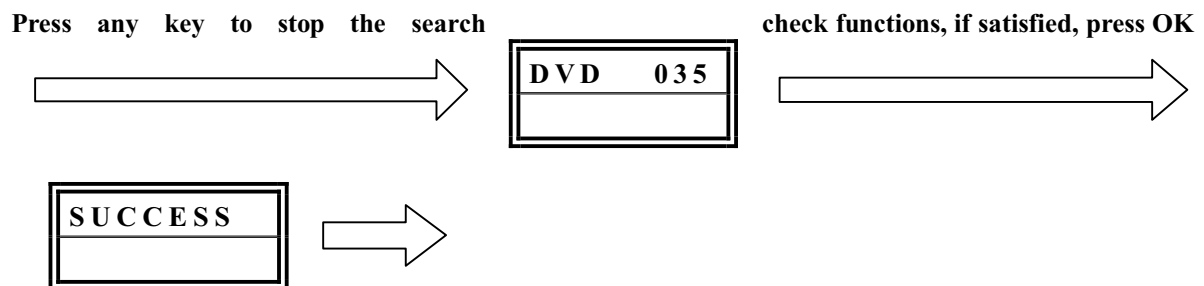
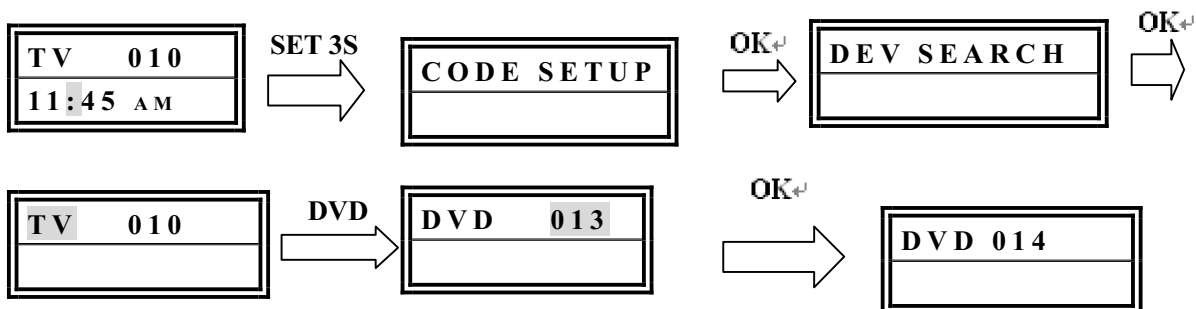
1. To terminate set up, please press .any device (e.g. ) key or  key.
2. You must point your remote control to the device that you want to control when you test the keys.
3.     ,  only used to program your new remote control during set up. You can't control your device as normal menu function at this moment until you finish set up.
4. If the device is locked, you must first unlock the device then set up.

Set-up by Auto Search







In case of the set-up by **Brand and Code** failed or you can't find the brand name in your remote control screen, you may use the **Auto Search** to find the correct code to operate your device.

1. Turn on the device (e.g. television) you would like to operate. If it is a VCR, please insert a tape.

2. Press the  key on your new remote control for more than 3 seconds. Then release it.
3. Press the  or  keys to select to “**CODE SETUP**” in LCD menu, and press the  key.
4. The screen shows “**DEV SEARCH**” in the LCD menu, press the  key to confirm. Then press your desired device key (e.g.  key) and then press the  key to start the Auto Search (you must point your remote control to your device during the search).
5. See if the device reacts or not, once the device reacts, press any key to stop the search.
6. Test if most of keys work good or not. If most keys work not good enough, please repeat step 4~5.
7. If you satisfy the reactive code, please press the  key to save it and LCD shows “**SUCCESS**” then show “**DEV SEARCH**”. You can press device key (e.g. ) again to finish set up or use  or  to select other set up.




Remark:

1. In case of you did not stop the search on time when device being reacted, you may press the  or  key to search back to find the passed code.
2. The keys of , , ,  are only used to set-up your new remote control during the Auto Search, you can't control your device for menu function at the moment until you finished set up.

- When remote control searches through all codes, the remote control will stop at the beginning code of the search.
- If the device is locked, you must first unlock the device then set up.









Learn

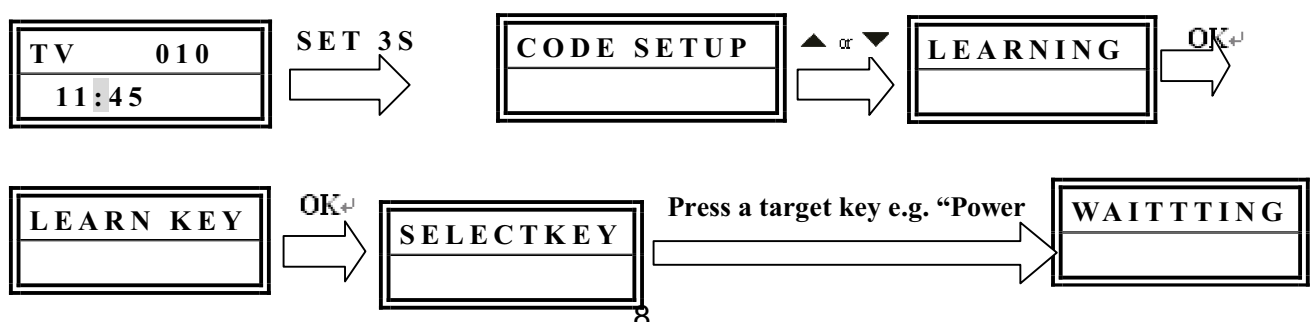
The  function is used to supplement the preprogrammed code list. The standard code list may provide most of functions needed, but you can add a small number of additional functions on your URC20-F15D. Or you can add a new code from a new original remote control which is shortage in the code list.

In learn mode, you must prepare a another original remote control where you will take codes from and add into your URC20-F15DL.

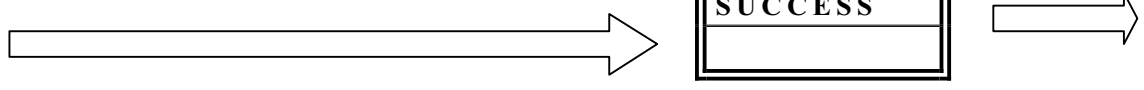
You can select “**LEARN KEY**” to learn commands, or “**DELETE KEY**” to delete learnt commands, or choose “**DELETE DEV**” to delete all learnt commands under a device, or “**DELETE ALL**” to delete all learnt commands in the remote control.

Learn a Command

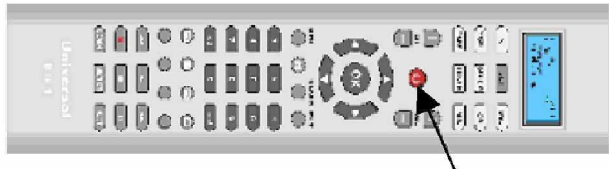
- Press a device key (e.g.  key) where you want to learn into.
- Press and hold the  key for more than 3 seconds, and then release it.
- Scroll  or  key to “**LEARNING**”, then press the  key.
- Scroll  or  key to “**LEARN KEY**”, then press the  key. The LCD shows “**SELECT KEY**”.
- Select a (target) key where you want to learn into (e.g. **Power** key). The LCD shows “**WAITING**”, it is waiting for your source IR signal. (If you don't send a IR signal in 30s, LCD will show “**FAILED**” and then show “**SELECT KEY**” again.).
- Point the transmitter of the original (source) remote control to the receiver window of URC20-F15DL by approximately 30mm apart. Refer to below drawing.
- Press and hold a source key (e.g. **Power** key) from the original remote control until the LCD display “**SUCCESS**”. If LCD shows “**FAILED**”, please repeat steps 4-6.
- Repeat steps 4-6 to learn more other keys.



Press a source key from original remote, e.g. "Power"

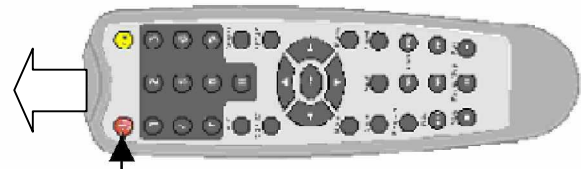


Receiver window



Target Key

Original Remote Control



Source Key

Remark:

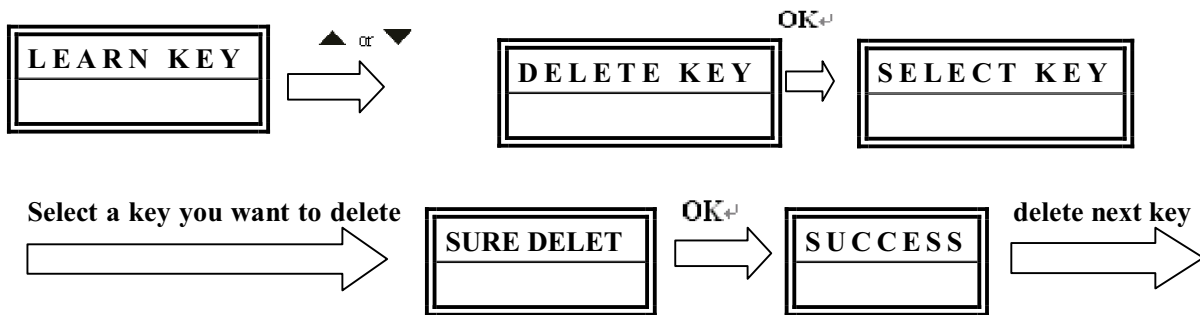
1. A selected target key can be multi learnt from different sources keys, URC20-F15D will store the final learnt signal only.
2. All usual function keys can be learnt except ALL OFF, Show View and Macro etc..
3. Some code form may not be learn by this remote control.
4. You can learn about 100 keys totally for 8 device key.
5. You may press any device key (e.g. TV key) to finish the learn operation. But you can't quit when LCD shows "WAITING" until it's ended.

Delete a Command

If you like to delete a learnt command, you can follow the steps as below:

1. Press the device key (e.g. TV key) where you like to delete command from.
2. Press and hold the SET key for more than 3 seconds, and then release it.
3. Scroll ▲ or ▼ key to "LEARNING", then press the OK key and the LCD shows "LEARN KEY".
4. Scroll ▲ or ▼ key to "DELETE KEY" and then press the OK key.
5. Press the key on URC20-F15DL that you want to delete, the LCD shows "SURE DELET" and then press the OK key to confirm, the LCD will show "SUCCESS".
6. Repeat step 4 to delete other key if you want.
7. Press a device key (e.g. TV key) to quit the delete operation when all desired commands are deleted.

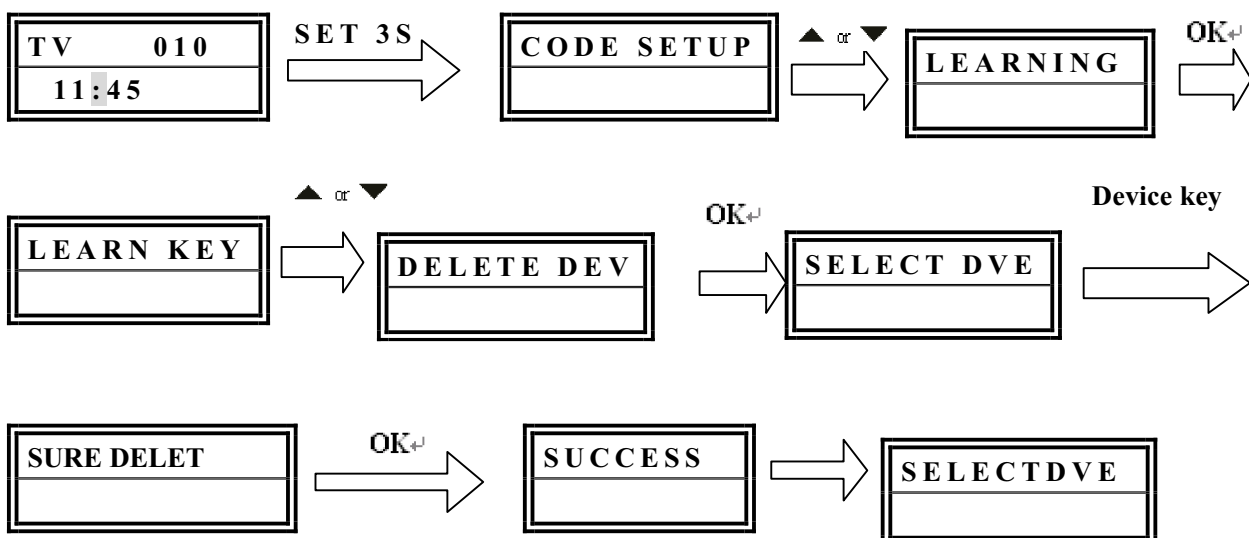




Delete All Command in a Device

If you want to delete all learnt commands in a device with one operation in stead of deleting every key one by one, please follow the below steps:





1. Press a device key (e.g. key) where you want to delete commands.
2. Press and hold the key for more than 3 seconds, and then release it.
3. Scroll or key to “**LEARNING**”, then press the key and the LCD display “**LEARN KEY**”.
4. Scroll or key to “**DELETE DEV**” and then press the key. The LCD shows “**SELECT DEV**”
5. You select the device key (e.g. key) want to delete.
6. The LCD shows “**SURE DELET**”, press the key to confirm, the LCD shows “**SUCCESS**”, then shows “**SELECT DEV**”.
7. Repeat step 4-5 to delete commands for other device key.
8. Press to quit current operation.

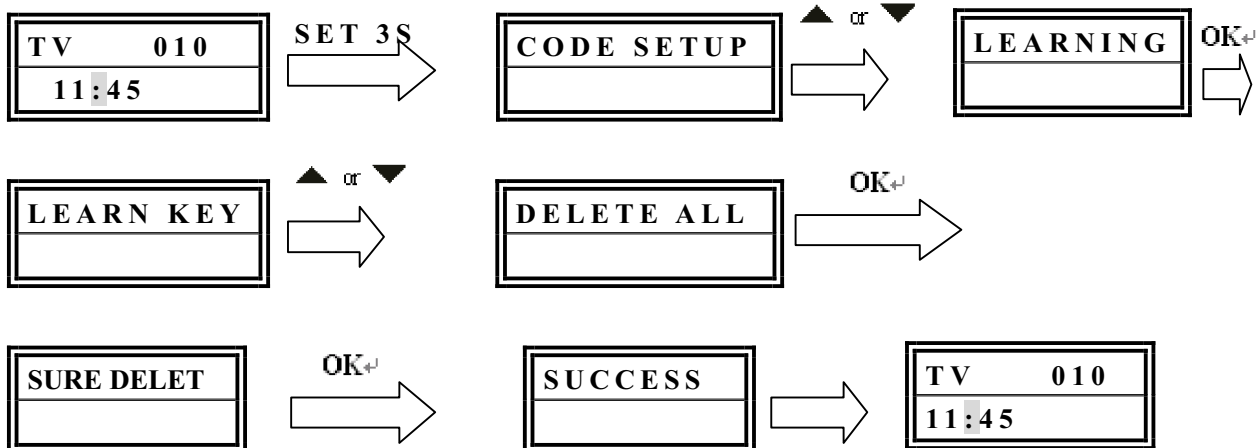


Remark: sometimes it may take maximum about 3 minutes for delete all commands in one device. So if the commands are not many, suggest you delete commands one by one.

D. Delete All Learnt Commands

If you want to delete all learnt commands in your remote control, please follow the below steps:





1. Press and hold the **SET** key for more than 3 seconds, then release it.
2. Scroll  or  key to “**LEARNING**”, then press the **OK** key, LCD shows “**LEARN KEY**”.
3. Scroll  or  key to “**DELETE ALL**”, then press the **OK** key.
4. The LCD shows “**SURE DELET**”, then press the **OK** key again, LCD shows “**SUCCESS**” to finish the deletion.










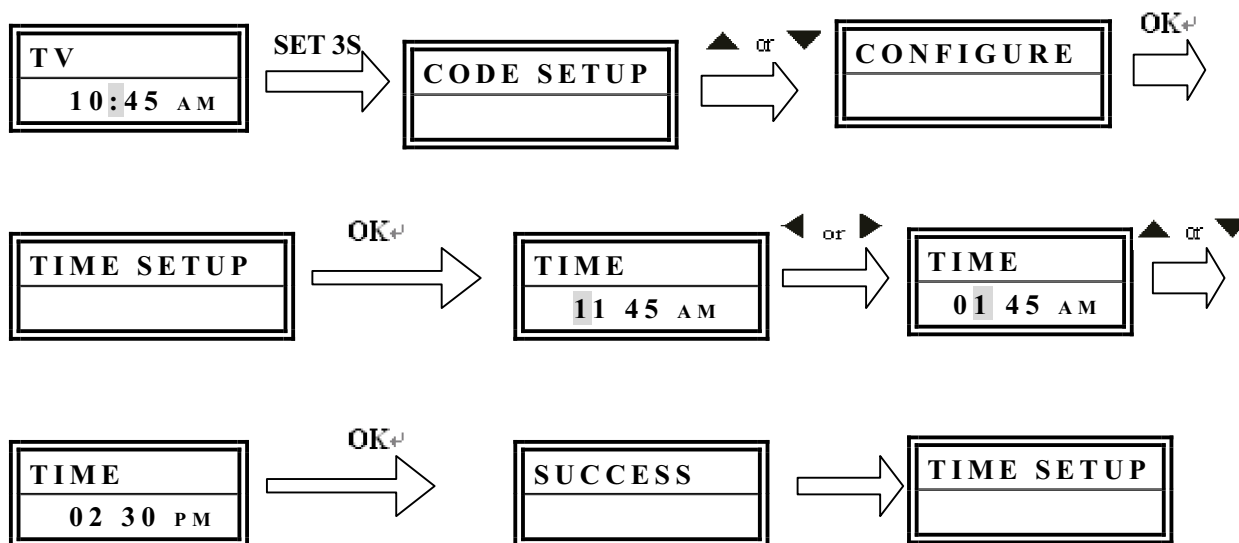
Other Set Up

A. Set up Clock


You can set up the clock on your URC20-F15DL remote control on it's LCD screen as below:











- 1 Press and hold the **SET** key for more than 3 seconds, then release it.
- 2 Press the  or  key to select the “**CONFIGURE**” menu, and then press the **OK** key.
- 3 Press the  or  key to select the “**TIME SETUP**” menu, and then press the **OK** key.





- 4 Press the  or  key to move the cursor to select hour or minute or **AM/PM**, then press the number key to set hour and minute, and press the  or  key to select AM or PM.
- 5 Press the  key to save the setting and LCD display “**SUCCESS**” exit to current setup state, if you enter errors the LCD screen shows “**ERROR**”. You can press any **device**(e.g. ) key to finish set up or press  key return to the last state.

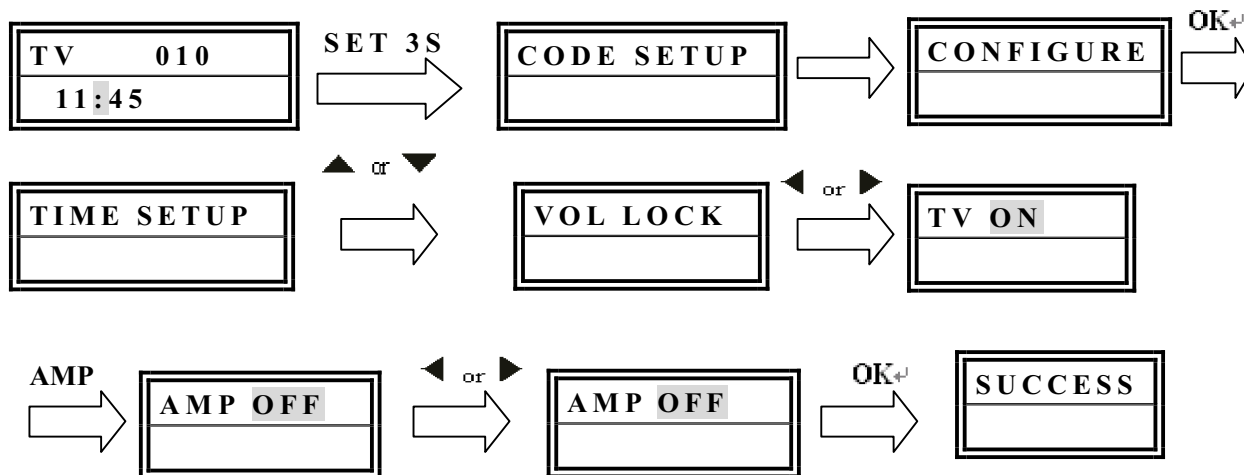


B. Volume Lock

This function makes you very convenient when you only use one device to adjust volume. For example, you may use your **amplifier** as your main volume control, then you can use this function to fix the volume and mute key to , no matter which device you use (even you use TV, DVD, VCR etc), the volume and mute key on remote control still control the volume and mute of your amplifier.

1. Press and hold the  key for more than 3 seconds, and then release it.
2. Press the  or  key to select the “**CONFIGURE**”, and then press the key.
3. Press the  or  key to select the “**VOL LOCK**”, and then press the  key.
4. Press the **device** key to select the device you want to fix, such as .
5. Press the  or  key to change to “**ON**” or “**OFF**” mode.
6. Press the  key to save the setting and LCD display “**SUCCESS**” then “**VOL**
















LOCK” to current setup state, You can press any device key (e.g. ) to finish set up or press the  key to last state, or you can use  or  to select other set up.

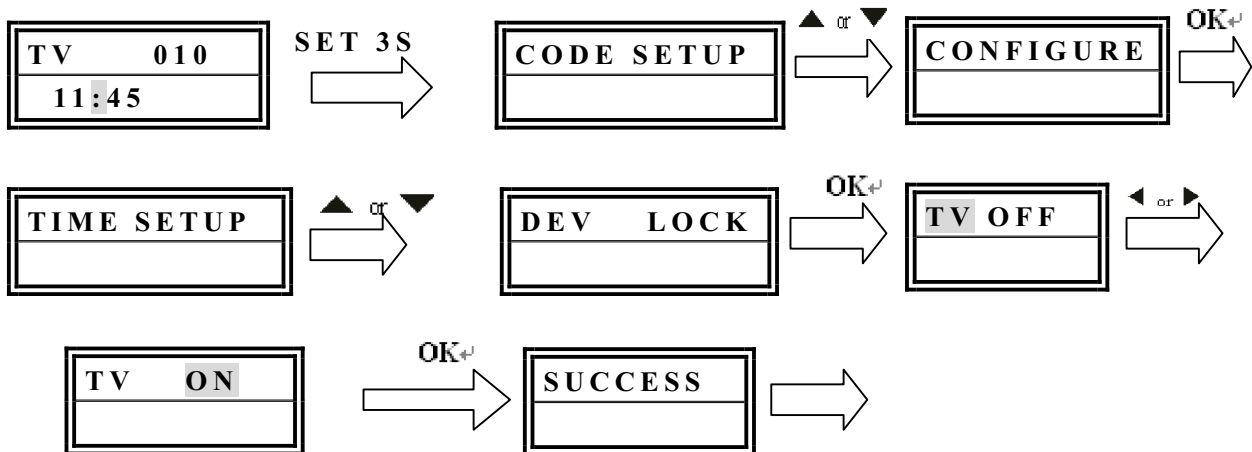


Remark: You can only lock one device for volume and mute of your new remote control. The locked device will be unlocked when you lock on the other device automatically.

C Device Lock

You can use **Device lock** function to fix current device code and this device code can't be changed by a new set up such as brand and code set up or auto search. You can set it to the "OFF" to quit from this function.

- 1 Press and hold the  "SET" key for more than 3 seconds, then release it.
- 2 Press the  or  key to select the "CONFIGURE", then press the  key.
- 3 Press the  or  key to select the "DEV LOCK", then press the  key.
- 4 Press the device key to select the device that you want to fix, such as .
- 5 Press the  or  key to change to the "ON" or "OFF" mode.
- 6 Press the  key to save the setting and LCD display "SUCCESS" then "DEV LOCK", exit to current setup state. You can press any device key (e.g. ) to finish the set up or press the  key to last state, or you can use  or  to select other set up.



Remark:

You can fix all more than one device code and these device codes can't be changed by neither **Auto Search** nor **Brand Code Set up**.

D. Background Light

If the background light is on, the background light will be lighted up for a while after you press any key.








- 1 Press and hold the **SET** key for more than 3 seconds, and then release it.
- 2 Press the or key to select the “**CONFIGURE**”, and then press the key.
- 3 Press the or key to select the “**LIGHT**”, and then press the key.
- 4 Press the or key to change to the “**ON**” or “**OFF**” mode.
- 5 Press the key to save setting and LCD shows **SUCCESS** then “**LIGHT**” exit to current setup state. You can press any device key to finish set up or press the key to last state, or you can use or to select other set up.

E. Contrast Adjust

If you are not satisfied the LCD screen contrast of your remote control, you can use below steps to change it.


- 1 Press and hold the **SET** key for more than 3 seconds, then release it.
- 2 Press the or key to select the “**CONFIGURE**”, then press the key.
- 3 Press the or key to select the “**CONTRAST**”, then press the

 key.

- 4 Press the  or  key to adjust contrast level, then press the  key until you satisfied.
- 5 Press the  key to save the setting and the LCD shows **SUCCESS** then “**CONTRAST**” exit to current setup state. You can press any device key to finish set up or press the  key to last state, or you can use  or  to select other set up.

F. ALL OFF


You can turn off or turn on all devices by one button only and sometimes it's convenient .

Press and hold the  key about **1** second and then release it. The remote control will send out each power signal for each device key to turn on (or turn off) your appliance one by one. Meanwhile the device key on remote control flashes to tell you which power signal is been sending.

Remark: The remote control must be pointed to device that you like to control until the operation finished.

G. Show View


Show view function scans all TV or CAB/SAT channels for your quick view.

1. Press the device key to select the device (such as ) that you want to operate.
2. Press and hold the **SHOWVIEW** key about **1** second. When the device's LED flashes and it goes into Show View mode. The remote control automatically scans all channels for a brief view.












Remark: 1. The remote control must be pointed at the device until Show View operation finished.
2. If you want to exit the show view mode, please press any key during operation.

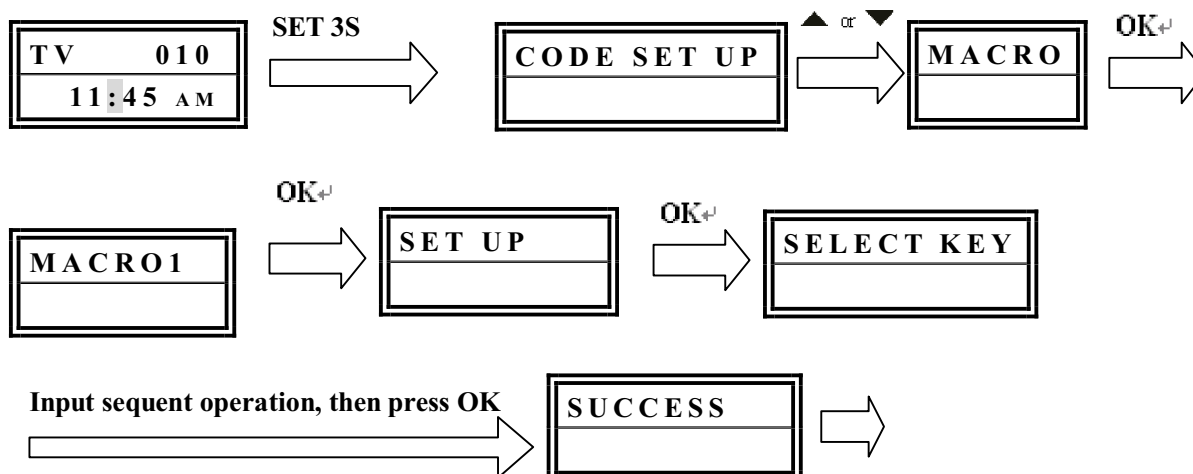
H. Macro

Macro function lets you make sequent operation for your home theater. URC20-F15D can has total 3 Macro operations.

Press and hold the **MACRO** key and  key (or 2, 3 key) simultaneously, then release them, the remote control will send out a sequent IR commands that you programmed before. Meanwhile the device LED will flash to tell you which button command is sending.

You can set up a Macro operation by following steps:














1. Press and hold the **SET** key for more than **3** seconds, and then release it.
2. Press the  or  key to select **"MACRO"**, and then press the  key.
3. Press the  or  key to select the **"MACRO1"** (or Macro2 or Macro3), then press the  key.
4. The screen shows **"SETUP"**, and then press the  key.
5. LCD shows **"SELECT KEY"**, then you can select the device and function key for a sequent operation that you like.
e.g.: TV+POWER+MUTE+AV, +DVD+PLAY, +VCR+RECORD, etc. That means you want to turn on the TV and shut off it's sound, switch TV input to AV port, at the same time DVD starts to play, VCR begins to record
6. Press the  key to save the setting, LCD shows **"SUCCESS"** then exit to current setup state,
7. You can press any device key to finish set up or press the  key to last state and use  or  to select other set up.

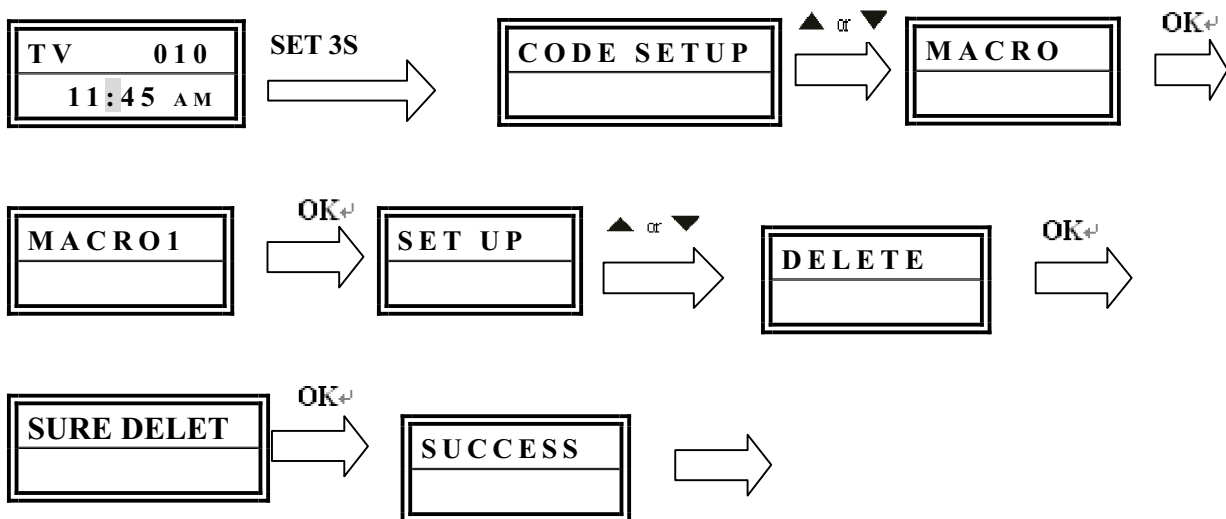


Remark:


1. A new Macro set up will erase and cover the last programmed Macro.
2. You can set up to maximum 10 commands in a Macro.
3. During operating Macro, be sure point your remote control to your appliance until finish this operation.
4. Be sure all the keys included in MACRO can send out signals, otherwise even if you programmed these keys inside the MACRO, it still can't work properly when you operate this function. You can check those keys by pressing them to see the relative **Device** buttons flash or not before you set up into MACRO.
5. Be sure the device must have relative conditions when you operate MACRO function. For example the disc must be put in the DVD player and a video tape must be put in the VCR when you like to play the DVD or make a record by your VCR by Macro operation.








I. Delete Macro

1. Press and hold the **SET** key for more than 3 seconds, then release it.
2. Press the  or  key to select the “**MACRO**”, then press the  key.
3. Press the  or  key to select the “**MACRO1**”, then press the  key.
LCD shows “**SET UP**”
4. Press the  or  key to select the “**DELETE**”, and then press the  key.
5. LCD shows “**SURE DELETE**”, Press the  key to confirm to delete and the LCD display shows “**SUCCESS**” then goes back to the last state.
6. You can press any device key to finish the delete operation or press the  key to last state, and use  or  to select other set up.








J. Device Alternation

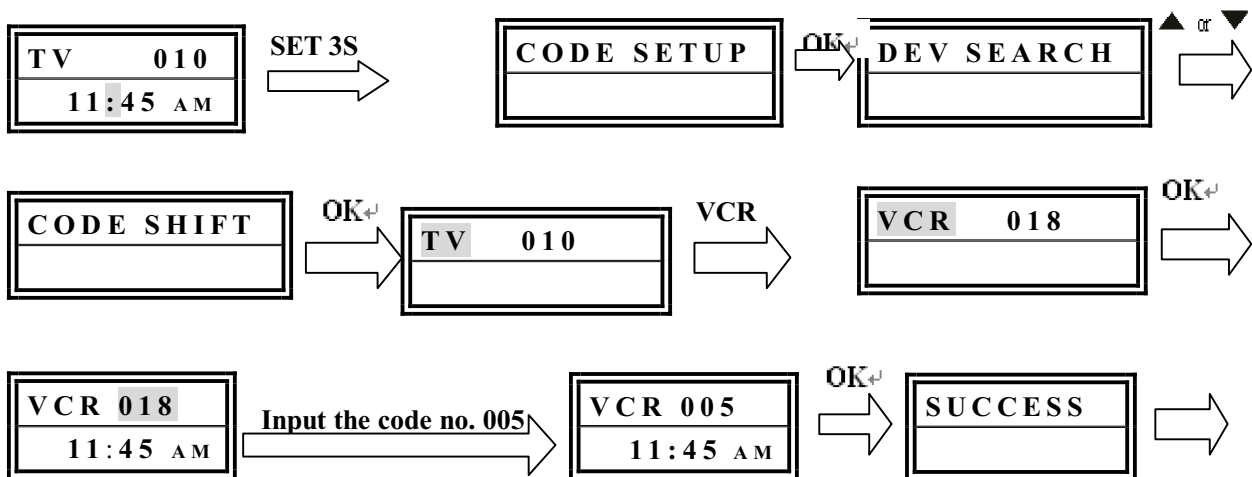
URC20-F15D has a flexible device definition for  key. If you want operate second VCR (or second TV, SAT/CBL, CD... etc.), you can set up it's code to AUX device key for a device alteration (**CODE SHIFT**). Just follow the steps below:

1. Press and hold the **SET** key for more than 3 seconds, then release it. Press the  or  keys to select to “**CODE SETUP**”, and press the  key.
2. The LCD screen shows the “**DEV SEARCH**”, Press the  or  keys to select “**CODE SHIFT**”, and press the  key. Then you press **device key** (e.g. **VCR** key) for your desired operation device, then press . And then enter the code

number, e.g.005 (you can find them in the **BRAND CODE LIST** at the attachment of this manual book) of the device brand by number button.









3. Please press the  key to save it and exit, LCD shows “**SUCCESS**”. then return to current setup.

4. Now you can press  key to check, it must be set up to VCR code 005. You can press any device key to finish Device Alternation or press the  key to last state, and use  or  to select other set up.



Clear All

Erase all the setting up data, and go back to the factory default settings.

1. Press and hold the  key for more than 3 seconds, and then release it.
2. Press the  or  key to select the “**CONFIGURE**”, and then press the  key.
3. Press the  or  key to select the “**CLEAR ALL**”, and then press the  key and LCD shows **SURE CLEAR**.
4. Then press the  key to clear all settings and go back to original factory default settings.

Service and warranties:

Your new 8-in-1 remote control is pre-programmed and can handle all important functions of your device. In case of technical inquiries or information concerning our product or its use, our service team is at your service, to help you through a free phone hotline or via email.

Service Address:

**SP European Service & Distribution Centre
Londonerstraße 11
D- 48455 Gildehaus**

Service times: Monday to Friday from 9.00 to 18.00

Phone: 00- 800 / 77 77 88 99 (free)

E-Mail: Service@SupportPlus.org

Note: Please **don't** send us your device to our address without an explicit calling of our service team. The sender is responsible for any costs and the risk of unrequested submissions.

Need Help?

If you have questions about your remote control, just call our free-phone help line! Before you call, please read the manual carefully. However, please make a note of your device in the table below and tell it to our operators when you make a call.

Date of purchase: ___/ ___/ ___/
Day month year

Device	Brand	Model number	Model number of original remote	Code
TV				
VCR				
CBL/SAT				
DVD				
CD				
TUNER				
TAPE				
AUX				

Device Brand Code List

TV

Brand	TV
Accent	023
Acme	004,010,313
Acura	010,309
ADA	015
ADC	002,006
Admiral	001,002,003,020,050,054,109,187,196,197,234,308
Adyson	004,186,210,213,296
Agashi	185,187,212,214,296
Agazi	003,308
Agb	124
Agef	234
Aiko	004,005,010,023,296,309
Aim	023
Aiwa	088,213,318,339
Akai	007,009,010,011,012,023,052,062,069,070,071,134,142,170,185,221,296,309,314,317,340
AKI	185
Akiba	012,023,101,212
Akito	023,026
Akura	003,012,016,023,072,101,185,191,212,308
Alba	309,317,326
Albe	004,010,012,023,028,029,054,063,069,087,163,170,184,185,187,195,198,215,217,296
Albiral	038,185,207
Alcyon	209
Alkos	165
Allorgan	021,027,195,212,219
Allstar	023,052
Amplivision	004,198,207,214,228
Amstrad	003,010,012,014,023,031,069,070,072,075,109,124,226,308,309,317,341
Anam	010,066,110,309
Anglo	010,309
Anitech	003,010,016,023,044,110,183,184,209,224,231,308,309
Ansonic	010,015,023,198,275,309
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Arcam delta	004
Arc en ciel	046,127,140,204,207
Aristona	016,023,052,170,195
A.R.Systems	023

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ASA	001,017,018,019,050,111,234
Asberg	023,044,052,182,187,195,209
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Asuka	003,004,012,101,212,214,218,296,308
Atlantic	004,021,022,023,052,170,182,197,296
Atori	010,309
Audiosonic	004,010,012,021,023,052,140,170,198,309
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Autovox	001,003,004,021,044,058,102,126,209,234,308
AWA	023,296
Baird	140,185,186,200,232
Bang&olufsen	001,234
Barcom	210
Basic line	010,012,023,052,101,184,186,212,309
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Baur	023,077,119,133,142,170
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Bestar	023,052,116,198,228,321
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Boston	208,218
BPL	023,096,101,121
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Britannia	004,296
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Bush	010,012,020,023,025,026,028,029,033,052,063,069,101,116,121,132,133,140,168,170,172,309,317,320,321,326
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Goldbox-D+	222,233
Goldstar	068
Gooding	075
Goodmans	005,074
Granada	030
Grothusen	004,068
Grundig	005,009,040,045,075,077,086,124,154,235,241,251,252
G-Sat	014,015
Hanseatic	095,312
Hantor	004,019,044,092
Hanuri	011
Harting Und Helling	015
HEDY	277
Heliocom	024
High Performance	082
Hinari	007,008,014
Hirschmann	015,039,040,078,079,080,083,122,129,178,179,180,181,241,250
Hisawa	044
Hitachi	005,045,115
Houston	055,244,249
Humax	152,192,193,234,281
Huth	010,013,021,043,044,050,055,083,244,246
Imperial	102,133
Innovation	029,085,095,153,156,157,309,311,312,313,317,318,319,320,321
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Intervision	055
Italtel-Stream	223,224
ITT/Nokia	005,030,045,048,079,115,122
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Jsr	055
JVC	003,075,236
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Kosmos	068,083,087,088
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Kreismeyer	040,241
Kyostar	004,247
Lasat	011,029,091,092,093,136,137,138,309,316
Lenco	004,022,068,094,244
Leng	044
Lennox	055
Lexus	242
Leyco	003
LG	068
Life	137,153,317
Lifesat	029,085,095,137,153,156,157,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321
Lifetec	029,085,095,137,153,156,157,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321
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Manhattan	005,011,045,055,249,250
Marantz	125,242
Mascom	011,088
Maspro	005,045,064,075,098,129,235,241,251
Matsui	003,075,145,235,241,250
Mb	095,312
Mediabox	245
Mediamarkt	021
Mediasat	033,245
Medion	029,085,095,137,153,156,157,214,215,216,217,218,219,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321
Mega	125,242
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Metronic	004,009,010,171,247,253
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Microstar	029,085,095,137,153,156,157,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321
Micro Technology	015,034,061
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Nimbus	096
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Pace	005,012,014,040,045,064,074,099,107,112,130,154,186,189,191,195,204,205,206,207,208,209,210,211,212,213
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Predki	044
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Premiere	055,140,245
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Profi	094
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Promax	005
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Proton	015
Provision	011
Ptt Telecom	047
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Sagem	062
Sakura	050,074

Salora	030,100,101,107,274
Samsung	004,027,078,272
Sat	007,017,036,038
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Satcom	043,095,106,312
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Satford	043
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Starion	034
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Star Trak	004
Stella	047
Strong	004,009,029,048,051,081,133,222,228,247,289,309
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Tandy	009
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TCM	029,085,095,137,153,156,157,306,307,308,309,310,311,312,313,314, 315,316,317,318,319,320,321
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Technisat	039,071,103,108,109,126,242

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Telanor	007
Telasat	095,312
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Telecom	047
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Telemax	091
Telesat	095,312
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Tevion	029,085,095,137,153,156,157,218,219,306,307,308,309,310,311,312, 313,314,315,316,317,318,319,320,321
Thomson	005,065,084,131,139,145,173,245,249,250
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Thorn	005,012,014,045,064,066
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Tokai	242
Tonna	005,043,055,249
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Triasat	072
Triax	040,071,136,242
Tristar	051
Tudi	259
Uniden	114,287
Unisat	021,050,242
Unitor	025,044,243
Universum	040,067,075,079,235,241
Variosat	241
Variostat	040
Vector	015,061
Ventana	125,242
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Vortec	004,027,078
VTech	253
V-Tech	036,038,104,115
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Wevasat	005,015
Wewa	005
Winer	290
Winersat	044
Wisi	005,036,038,039,040,113,116,117,118,241,246
Wittenberg	017
Wolsey	082
Woorisat	011
Xsat	176,249
Zehnder	011,029,038,087,089,119,243,253,309
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Zodiac	009,247

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Adcom	006
Aiwa	007,008,009,098
Akai	010,011,012,013
Alba	014
Arcam	083
Asuka	015
Audiosonic	015
Bestar	016
BSR	017
Bush	018
California audio lab	019
Carrera	020
Classic	119
Condor	017
Crown	021
Cybercom	103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Cybermaxx	103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Cytron	103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Denon	022,023
Dual	015,024,103,104,105,107,108,109,110,111,112,113,114,115,116,117,118
Elta	105,108,113
Emerson	006,016,025
Fisher	026,027
Genexxa	016,025,028,029,030,031,032,033,034,107
Goldstar	020

Goodmans	025,035,036
Grundig	037,083
Harmon Kardon	010,038,039,040
Hitachi	006,024,041,042,043
Innovation	081,089,090,091,092,093,094,109,110,111,112,113,114,115
Intersound	015
JVC	044
Kenwood	026,029,045,046,047,100
Kodak	005
LG	020
Lifetec	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Linn	083
Luxman	048,049
Magnum	081,089,090,091,092,093,094,109,110,111,112,113,114,115
Marantz	051,052,083
Matsui	051,053,083
Mcintosh	054,055
Medion	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
M-Electronic	050
Memorex	006,016,025,031,034
Meridian	083
Micromaxx	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Micromega	083
Microstar	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Mission	083
NAD	028,049,084,085,086,087
Naim	083
Nakamichi	056,057
Onkyo	002,058,059,060,061
Panasonic	018,019,062
Philips	003,063,064,082,083
Philips Cd-I	064
Philips Cd-V	002
Pioneer	030,034,099
PRO2	103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Proton	083
Quad	083
Realistic	006,016,031,032,107
Roadstar	050,063,065
Rotel	083

Saba	024
SAE	083
Samsung	102
Sansui	003,025,066,067,068,083
Schneider	001,017,083
Scott	016,025
Sharp	029,069,070,071
Siemens	072
Signature	010
Singer	118
Sony	028,073,074,075,088,095,096,097
Sunwood	015
Tandberg	083
TCM	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Technics	019,062,077,101
Telefunken	024
Tevion	081,089,090,091,092,093,094,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Thomson	004,024
Toshiba	049,078,079
Universum	083
Vector Research	020
Victor	044
Welltech	107,108,112
Yamaha	069,076,080
Yorx	065

DVD

Brand	DVD	DVR
Akai	010,034,064	
AMW	091	
Arena	120	120
BBK	075,076,077,078,079,080,081,082,083,084,085	
Brandt	118	
Bush	097	
CMI	120	120
Crown	118	
Cybercom	102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124	120
CyberHome	042,068	
Cybermaxx	102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124	120
Cytron	102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124	120

Daewoo	070,091	
Denon	005,036,058	
DIK	114	
Dual	102,103,104,105,107,108,109,110,111,112,113,114,115,116, 117,118,119,120	120
ECCG	095	
Ferguson	118	
Golden Sphere	108	
Goodmans	118	
Go-Video	105	
Gradiente	118	
Grundig	011	
GVG	096	
Haaz	108,109	
Harman/Kardon	050	
H&B	110	
Himage	094	
Hitachi	009,025,030,043,063,127	127
HTY	086	
Innovation	012,013,014,114,116,117,118	
JVC	002,032,066	
Kendo	114,120	120
Kenwood	005,028,058	
Koss	118	
Labwave	023,048	
Lasonic	067,108	
LG	016	
Life	012,013,014,116,117,118	
Lifetec	012,013,014,102,103,104,105,106,107,108,109,110,111,112, 113,114,115,116,117,118,119,120,121,122,123,124	120
Limit	108	
Linn	035	
Loewe	011,039	
Magnavox	056,089,125,126	
Marantz	003,038	
Matsui	118	
Maxim	091	
Medion	012,013,014,041,102,103,104,105,106,107,108,109,110,111, 112,113,114,115,116,117,118,119,120,121,122,123,124	120
Metz	009,024	
Mico	087,088	
Micromaxx	012,013,014,102,103,104,105,106,107,108,109,110,111,112, 113,114,115,116,117,118,119,120,121,122,123,124	120
Microstar	012,013,014,102,103,104,105,106,107,108,109,110,111,112, 113,114,115,116,117,118,119,120,121,122,123,124	120

Mitsubishi	007	
Mustek	069,071,072	
NAD	027	
Noname	045	
Norcent	093	
Nortek	091	
Onkyo	015,029,065	
Optimus	059	
Oritron	118	
Pacific	114	
Panasonic	005,006,017,022,036,051,054,055,058	
Panda	090	
Philco	053	
Philips	003,011,039,040,047,052,125,126	125,126
Pioneer	009,024,026,059,062	
Prism	104	
PRO2	102,103,104,105,106,107,108,109,110,111,112,113,114,115, 116,117,118,119,120,121,122,123,124	120
Proline	118	
RCA	057,073	
Reoc	108	
RTL	120	120
Saba	118	
Sampo	108	
Samsung	008,030,063,105	
Sanyo	092	
Schneider	014,113,114,118	
SEG	108	
Sharp	012,013,116	
Sherwood	044	
Siltex	076	
Skymaster	098,099,100,101	
Sony	004,031,046,060	
Strong	091	
SVA	074	
Sylvania	106	
TCM	012,013,014,102,103,104,105,106,107,108,109,110,111,112, 113,114,115,116,117,118,119,120,121,122,123,124	120
Teac	108	
Technics	005,036,037,058	
Tevion	012,013,014,102,103,104,105,106,107,108,109,110,111,112, 113,114,115,116,117,118,119,120,121,122,123,124	120
Thomson	001,033	
Toshiba	003,049	
Xenius	115,118	

Yamaha	005,036,058,061,125,126	125,126
Others	018,019,020,021	

TAPE

Brand	TAPE
Aiwa	008,009,010,126,127
Akai	015,079,089,099,100,110
Amstrad	082
Aswo	017
Braun	036
Bush	003
Daewoo	073
Denon	002,006,007,045,058,132
Diora	065,066
Dual	016,101,102
Fischer	059,060,071,129
Goldstar	128
Goodmanns	001
Goodmans	033
Grundig	017,021,026
Harman Kardon	057,092
Hitachi	045,081
ITT	084,085
JVC	011,028,029,123,124
Kenwood	014,083,098,101,102,116,121,122
Linn	054
Luxman	042,043,050,097
Marantz	017,053,088
NAD	069,070
Nakamichi	093
Nokia	086
Okano	113,114
Onkyo	012,013,022,067,068
Palladium	109
Panasonic	048,094,095
Philips	017,026,087
Pioneer	019,020,078,104,106,107,108
Radmor	053
Revox	027
Revox/Studer	017
Samsung	049,051,052,062,063
Sany	071
Sanyo	072,096,103
Schneider	017,032,033,034,035,038,039,040,044,084,085,112,128
Sharp	005,030,116

Sherwood	056,074,075,076,077
Siemens	015,017,046,047,111,112,115,117,118,119,120,128
Sony	031,091,105,130,131,133
T+A	037,125
T+A Elektroakustik	125
Technics	004,055,064,094
Thomson	018
Universum	034,041,052,061,112,115
Yamaha	023,024,025,080,090

TUNER

Brand	TUNER
Aiwa	006,007,048
Akai	026,077,089
Amstrad	081,093,097,098
Ash	053
Aswo	056
Bush	042
Daewoo	087
Denon	001,002,031,052,074,100
Diora	090
Dual	011,025
Fischer	063
Goldstar	004
Goodmanns	077
Goodmans	042
Grundig	056,058
Harman Kardon	084
Hitachi	031,082
ITT	030
JVC	044,073,076
Kenwood	025,066,068,071,075
Linn	101
Luxman	067,103
Marantz	056
Minowa	039
Mission	018
NAD	088
Nakamichi	049
Nokia	040
Noname	042
Okano	079,092
Onkyo	055,069
Palladium	080
Panasonic	001,061

Philips	056
Pioneer	010,013,014,065
Radmor	057
Revox	016
Revox/Studer	056
Rotel	008
Samsung	009,041,078,094,102
Sanyo	022,062
Schneider	004,018,020,021,023,024,028,029,030,032,033,034,037,038,039,042,070, 072,080,089,092,093,098
Sharp	003,075
Sherwood	043,085,086
Siemens	004,018,036,037,047,056,077,087,092,095,099
Sinotec	024
Sinotec(Pepsi-Dose)	024
Sony	019,046,050,051
Supertech	042
T+A	035,054
T+A Elektroakustik	054
Technics	017,059,060,091
Thomson	012
Uher	005
Universum	033,077,092,096,102
Yamaha	015,027,045,064,083

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ADT		161
Aiwa	028,128,129	
Akai	018,112,121	
Amplifier	158	
Amstrad	014,034,077,086,145	
Arion		162
ASH	027	
Aswo	043	
Audio Comb1		040
Braun	104	
Bush	032,116	
CD Photo		039
CDR		041
CD Video		038
Cybercom	169,170,171	173,174,175,176,177,178
Cybermaxx	169,170,171	173,174,175,176,177,178
Cytron	169,170,171	173,174,175,176,177,178
Daewoo	022	

Denon	020,080,098,131,139	001(LD)
Diora	081	
Disco Vision		003(LD)
DMT		161
Dual	062,124,169,170	173,174,175,176
Elta		176
Fischer	021,085,134	
Goldstar	029	
Gold Vision		166,167
Goodmanns	015,018,032	
Grundig	043,142,148	005(LD),043,044,046
Harman Kardon	091	
HDT		159
Hitachi	098	003(LD)
ITT	073	
JBL	068,118	
JVC	067,146,150	
Kenwood	023,062,156	062
Lifetec	169,170,171	173,174,175,176,177,178
Linn	043,148	043
Luxman	099,100,149,152	
Magnavox		046
Marantz	043,148,153	043,044,046
Medion	034,169,170,171	173,174,175,176,177,178
Meridian	148	043
Micromaxx	169,170,171	173,174,175,176,177,178
Microstar	169,170,171	173,174,175,176,177,178
Minowa	013	
Mission	155	
Mitsubishi		005(LD)
NAD	048	005(LD),047,048,049,050
Naim		043
Nakamichi	069	
Niam	148	
Nokia	072	
Noname	032	
Okano	016,017	
Onkyo	024,125	
Palladium	033,090,133	
Palladium/Okano	143	
Panasonic	136,138,141	
Philips	043,101,140,148,153,154	004(LD),006(LD),043,044,045,046
Pioneer	011,119,148	003(LD),005(LD),043,055
PRO2	169,170,171	173,174,175,176,177,178
Quad	148	043

Radiola		006(LD)
Radiotone	087	
Radix		160
Radmor	140,153,154	
Revox	089,120	
Revox/Studer	101,153,154	
Rotel	126,127	
Saba	151	
Samsung	010,074,083,092	065
Sansui		044,046
Sanyo	134,157	
Schneider	012,013,016,019,026,029,032,033,034, 035,043,073,075,086,088,096,105,106, 107,108,109,110,111,113,114,115,143, 144,145,147	
Sharp	132,156	
Sherwood	071,078,079	
Siemens	016,018,019,022,026,029,031,034,043, 075,093,094,095,142	
Sinotec	035	
Sinotec(Pepsi-Dose)	035	
Sony	036,117,133	002(LD),007(LD),008(LD),051, 052,053,056,057,058,059,060,061, 168
Supertech	032	
T+A	025,103	
T+A Elektroakustik	025	
TCM	169,170,171,172	173,174,175,176,177,178
Techmate		163
Technics	082,097,135,138	063
Techsan		164,165
Telefunken		005(LD)
Tensai	102	
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Uher	130	
Universum	010,016,018,084,107	
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Welltech		173,178
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Others	137	