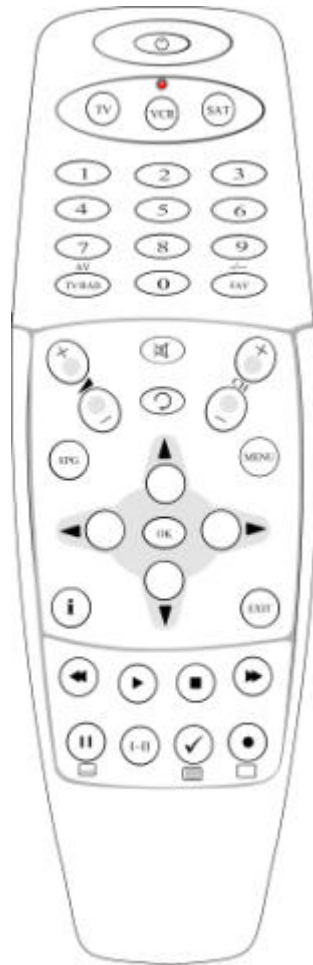


**EchoStar Exclusive
Tri Control Database Remote**



ECHOSTAR  [®]



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1 INSTALLING THE BATTERIES

Your Tri Control needs 2 new "AA/LR06" alkaline batteries.

1. Remove the battery cover from the back of your Tri Control by pressing down on the tab.
2. Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
3. Press the battery cover back into place.

Important note :

In order to avoid having to reprogram your Tri Control after you remove the batteries, you will need to insert new batteries within 15 minutes. Also it is best that you do not use rechargeable batteries.

2 THE KEYPAD

Power Key



The Power key turns on and off your EchoStar Receiver and controls the same function as it did on your TV and Video original remote control.

LED



The LED (Light Emitting Diode) flashes red to show the remote is working.

Device Keys



The TV, VCR and SAT keys select the device to be controlled. For example pressing the SAT key allows the remote to control the functions of your EchoStar Satellite Receiver, after pressing TV, you can operate your Television and the VCR key operates your Video Recorder. These keys are also used to set Up your different devices.

Volume, Channel Keys



The Volume and Channel keys control the two most frequently used functions of your Television and Satellite Receiver. They operate just as those on your original TV remote.

Mute Key



The Mute key operates the same function it does on your original TV remote control

Number/Input Keys

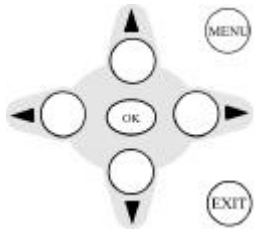


The Number/Input keys (0-9, TV/RAD, FAV) provide functions just like your original remote, such as direct access programme selection. If your original remote uses one/two digit input switching (-/--, 10 or 20 symbol), this function can be obtained by pressing the -/-- key, this is the same as the FAV key. If your original remote has an AV key, this function can also be found under the TV/RAD key.

BACK UP Key



Will operate on your TV as previous programme or channel (P < P).



Menu Keys

The Menu key, directional keys, OK key, and EXIT key controls the same function as it does on your television original remote.



Subtitle Key



Bookmark Key



Electronic Program Guide Key



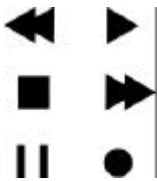
I/II Key

Stereo/mono or language selection key will operate the same as on your original TV remote control.



i key

Allows you to access the display function of your television and VCR

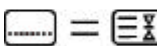


Video Recorder Keys

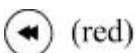
After pressing the VCR key, the Video Recorder keys operate the functions of your Video Recorder. To prevent accidental recording, the Record key must be pressed **twice** to start recording. If your original remote control uses a TV/VCR key, you will be able to access this function by using the TV/RAD key.



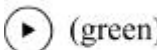
Teletext Keys



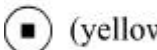
After pressing the TV key, almost the whole bottom row and the VCR keys are used to operate the main teletext functions. The symbols below the keys are for teletext. Of course, your Television must be teletext capable. For an explanation of the teletext symbols, please refer to page 7 (Advanced features) of this manual. For a detailed explanation on how teletext works, please refer to the manual of your Television set.



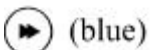
(red)



(green)



(yellow)



(blue)

After pressing the TV key, the VCR keys marked red, green, yellow and blue allow you to access the fasttext functions of your television. Again, your television must be fasttext capable to operate these functions. For a more detailed explanation of teletext and fasttext, please refer to the manual of your Television set.



3 INSTALLATION

3.1 *Controlling the EchoStar Satellite Receiver*

Your Tri Control is pre-programmed to control the DSB8200 Satellite Receiver.

To control the DSB-8200 or AD3000 IP with the Tri Control just press the SAT key and use the different keys of the Tri Control.

If you have another EchoStar receiver, the correct set-up code can be found in the table on page 21 - 23. Setting up the satellite receiver is described below at item 2 and 3. Only use the SAT key instead of the TV key.

3.2 *Setting up your television and Video Recorder*

3.2.1 To set up your TV:

1. Find your Television code in the set-up code section. Codes are listed by brand name. The most popular code is listed first. Make sure your Television is switched on.
2. Press and hold Down the TV key until the red light stays on. Release the TV key (the light will start flashing).
3. Enter your four-digit TV code using the number keys. The red light will blink three times, confirming that the new code is loaded successfully.
4. Now, aim the Tri Control at your Television and press POWER. If your Television switches off, your Tri Control should be ready to operate your Television.

Turn your device back on and try all the remote's functions to ensure they are working properly. If the functions do not work properly, repeat steps 1-4 using another code listed under your brand.

Note:

- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, try another code listed under your brand.
- If your Television does not respond, follow steps 1 through 5 with each code listed for your brand. If none of the codes listed for your brand operate your device, try the "Search method" described on page 5, even if your brand is not listed at all

Write your code in the four boxes provided on page 10 and in the battery compartment for easy future reference.

3.2.2 To set up your Video Recorder:

To set up your VCR, use the same sequence as to set up your television, only press VCR in stead of TV.

4 THE SEARCH METHOD

If your Television or Video Recorder does not respond to the Tri Control after you have tried all the codes listed for your brand, try searching for your code. The search method may also work if your brand is not listed at all.

Let's say you cannot get your Tri Control to operate your Television.

To search for your TV code:

1. Switch your Television on and aim your Tri Control at your television.
2. Press and hold down the TV key until the Tri Control's red light stays on. Then, release the TV key. The red light will start flashing.
3. Press the POWER key. The red light will turn on.
4. Now press and release the UP (▲) key continually, insuring an interval of 2 seconds between each press.
5. When your Television turns off, press the OK key. Don't forget to press the OK key as soon as your Television turns off.
Using the Down (▼) key allows you to step back in case you passed the right code, make sure you turn the TV on before stepping back.

The EchoStar remote should now be ready to operate your device. Turn your device back on and try all the remote's functions to ensure they are working properly. If some of the EchoStar's commands are not operating correctly, try the search method again. You may be using the wrong code.



If the Tri Control flashes, **8 times** it indicates a complete library scan.

Important notes:

- To search for the code for your Video Recorder follow the instructions above only press VCR during step 2.
- If your Video's original remote control does not have a POWER key, make sure you insert a tape before following the instruction above using the PLAY/STOP key instead of the POWER key.

After you have used the Search Method, you can find out which code the EchoStar REMOTE responded to by blinking back the code. It is handy to know your Television or Video code for future reference. Remember that you can only blink back your code after the EchoStar REMOTE is operating your device.

To blink out your Television code:

1. Press and hold the TV key until the Tri Control's red light stays on. Release the TV key. (The red light will start flashing)
2. Press 9 9 0 to enter the blink out feature;
3. For the first digit of your four-digit code, press **1** and count the red blinks. If there are no blinks, the digit is "0".
4. For the second digit, press **2** and count the red blinks.
6. For the third digit, press **3** and count the red blinks.
7. For the fourth digit, press **4** and count the red blinks. Now you have your four-digit code.



Make sure you write your Television code in the boxes on page 10 and in the battery compartment for easy future reference.

Important note: To blink back the code for your Video Recorder, follow the instructions above only press VCR during step 1.

4.1 To set-up a second EchoStar Satellite Receiver

To set up a second EchoStar Satellite Receiver on the VCR key follow the instructions below:

1. Press and hold the SAT key until the red light stays on. Release the SAT key (the light will start flashing). Now press 9 9 2 followed by the VCR key once (the red light will blink twice).
2. Find your EchoStar code in the set-up code section. Codes are listed by model number. Make sure your EchoStar receiver is switched on.
3. Press and hold down the VCR key until the red light stays on. Release the VCR key (the light will start flashing).
4. Enter your four-digit Satellite code. The red light will blink three times, confirming the new code is loaded successfully.
5. Now, aim the Tri Control at your EchoStar receiver and press POWER. If your Satellite receiver switches off, your Tri Control should be ready to operate your EchoStar Satellite Receiver.

If you want to set-up a second EchoStar Satellite Receiver on the TV key. Follow the instructions above, only press TV instead of VCR during steps 1 and 3.

5 ADVANCED FEATURES

5.1 Addressing the Remote (address 1 to 10)

To control a second, third EchoStar Satellite Receiver with the Tri Control in the same room. It is recommended to set up different addresses per receiver plus remote control.

To set up an address for the EchoStar Satellite Receiver follow the instructions below:

1. Press and hold the SAT key until the red light stays on. Release the SAT key (the light will start blinking). Now press 9 9 9.
2. Enter the address using the number keys (0 ... 9) and press the OK key once. The red light will blink the address number entered. E.g. entering number 0 will result in ten flashes, confirming address 10 is been set.
3. Now, aim the Tri Control at your EchoStar receiver and press POWER (make sure that the receiver is turned off). When the receiver switches on, your Tri Control should be ready to operate the EchoStar Satellite Receiver.

To check which address is been set on the Tri Control:

1. Press and hold the SAT key until the red light stays on. Release the SAT key (the light will start blinking). Now press 9 9 9.
2. Press the OK key once. The red light will blink the address number currently installed. E.g. current address is 3, will result in three flashes

5.2 Punch Through (VOLUME LOCK)

You are able to use some features of your Television, Video Recorder and Satellite at the same time. If you're watching a programme on your Video, you can adjust the volume (a TV function) without first pressing the TV key. Some possibilities are listed below:

Last key pressed:	You can control:
VCR	TV volume Up and Down, mute
SAT	TV volume Up and Down, mute

If you want to use the volume feature of your EchoStar Satellite Receiver with your other devices. Press and hold the SAT key until the red light stays on. Release the SAT key (the light will start blinking). Now press 9 9 3 followed by the SAT key once (the red light will blink three times).

To reset the volume control to it's original device setting, press and hold the device key until the red light stays on. Release the device key (the light will start blinking) and press 9 9 3 followed by the VOL+ key. The red light shall blink now 4 times.

5.3 Changing the Device Keys

If you want, you can change any of the device keys (TV or VCR) to operate another type of device. The chart below lists how to change the keys and to set Up a device:

To programme a: Press:

VCR on the TV key	VCR* 992 TV, then TV* VCR Code
TV on the VCR key	TV* 992 VCR, then VCR* TV Code

*** Hold down the device key until the red light stays on, then release the device key (the light will start flashing).**




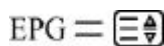
To reset a device key to its original function, press:

TV Key	TV* 992 TV
VCR key	VCR* 992 VCR

*** Hold down the device key until the red light stays on, then release the device key (the light will start flashing).**

5.4 Teletext and Fastext

The Tri Control is designed to operate the basic functions of teletext (text on, text off, expand and hold).

Symbol	Title	Description
	TEXT	Puts the Television in the teletext mode.
	TV	Switches the Television back to regular viewing mode. On some Televisions, this may be done by pressing the TEXT key several times.
	EXPAND	Shows the top half of the teletext page in larger letters. By pressing again, you can see the bottom half of the teletext page enlarged. To return to regular teletext viewing, press the EXPAND key again, or press the TEXT key, depending on your television.
	HOLD/STOP	Stops changing pages.

The keys marked red, green, yellow and blue are used to access the fastext functions of your TV.

Important note: For a more detailed explanation of teletext and fastext, please refer to the manual of your Television. Remember, different Televisions control teletext and fastext features in different ways. Not all of the teletext functions may be available for your particular model.

5.5 Resetting the remote



You can execute a return to default (reset) by holding Down the SAT key until the red light stays on. Release the SAT key, the red light will start flashing. Press 981 (The red light will flash four times)

Note: all installation done will be erased! You will have to start the installations again from the beginning.

APPENDIX A REFERENCES

Write down the codes for your devices in the boxes below and in the battery compartment, for quick and easy reference.

Device type	code
1. _____	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
2. _____	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
3. _____	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Television set-up codes:

A.R. Systems	0037 0352
Acura	0009
Admiral	0087 0093 0418 0213 0264
Adyson	0217 0216
Agazi	0264
AGB	0516
Agef	0087
Aiko	0216 0009 0037 0371 0035 0433 0072 0361 0191 0264 0217
Aim	0037
Akai	0361 0208 0371 0037 0433 0191 0035 0009 0072 0218 0163 0516 0556 0548 0480 0217 0631
Akiba	0218 0282 0455 0037
Akito	0272
Akura	0218 0359 0282 0009 0412 0264 0037
Alba	0218 0235 0009 0418 0370 0355 0371 0037 0216 0247 0431 0163 0487 0036 0668
Alcyon	0076
Allorgan	0206 0294 0217
Allstar	0037
Amplivision	0217 0400 0320 0370
Amstrad	0177 0009 0516 0264 0354 0218 0371 0433 0362 0412 0037
Anglo	0009 0264
Anitech	0009 0076 0264 0037
Ansonic	0370 0292 0102 0009 0037 0374 0163 0323 0411 0259 0247 0012 0428
Apollo	0473
Arc en Ciel	0399 0109 0196 0198
Arcam	0216 0399 0217
Aristona	0037 0556 0012 0013
Arthur Martin	0163 0400
ASA	0105 0346 0070 0104 0087
Asberg	0037 0076
Asora	0009
Asuka	0218 0264 0216 0282 0217
Atlantic	0037 0216 0206 0259 0320
Atori	0009
Auchan	0163 0400
Audiosonic	0037 0109 0217 0370 0337 0264 0218 0486 0428
Audioton	0217 0486 0370 0264
Ausind	0076
Autovox	0087 0206 0237 0076 0544 0349 0217 0247 0336
Awa	0011
Ayomi	0238
AYR	0535
Baird	0109 0193 0343 0190 0192 0072 0073 0217 0208
Bang & Olufsen*	0565 0087
Barco	0163
Basic Line	0218 0009 0374 0037 0163 0282
Bastide	0217
Baur	0303 0535 0195 0512 0037 0554 0191 0361 0544 0349 0505 0010
Bazin	0217
Beko	0370 0486 0037
Beon	0037 0418

Best	0337 0370 0421
Bestar	0037 0370 0374
Binatone	0217
Black Star	0247
Blacktron	0282
Blackway	0282
Blaupunkt	0554 0191 0535 0195 0200 0301 0213 0327 0328 0318 0448
Blue Sky	0218 0282 0455 0037 0487 0668
Blue Star	0282
Bondstec	0247
Boots	0272 0217
BPL	0282 0037
Brandt	0109 0399 0237 0196 0198 0287 0335
Brinkmann	0418 0037
Brionvega	0037 0087 0362
Britannia	0216 0217
Bruns	0087
BSR	0163 0294
BTC	0218
Bush	0218 0235 0163 0349 0009 0036 0282 0037 0272 0355 0371 0374 0519 0264 0361 0487 0208 0294 0217 0668
Capsonic	0264
Carena	0455 0037
Carrefour	0036 0070 0057
Cascade	0009 0037
Cathay	0037
Centurion	0037
Century	0087 0213 0247
CGE	0074 0084 0306 0076 0247 0163 0418 0370
Cimline	0009 0235 0218
City	0009
Clarivox	0418
Clatronic	0218 0264 0370 0371 0217 0076 0247 0037 0009 0102 0320
Concorde	0009
Condor	0216 0247 0282 0320 0037 0370 0009 0102 0314 0411
Contec	0216 0009 0157 0011 0036
Continental Edison	0109 0237 0196 0198 0399 0287 0487
Cosmel	0009 0337
Crezar	0213
Crosley	0087 0247 0074 0084 0076 0163 0213
Crown	0009 0370 0486 0076 0421 0037 0359 0579 0418 0208 0487
Crystal	0431
CS Electronics	0247 0216 0218
CTC	0247
Cybertron	0218
Daewoo	0009 0037 0216 0374 0218 0217 0499
Dainichi	0218 0216
Dansai	0037 0264 0035 0216
Dansette	0412
Dantax	0370 0486
Datsura	0208
Dawa	0037
Daytron	0009 0374
Decca	0072 0516 0037 0272 0217
DeGraaf	0208 0044 0163
Denko	0264
DER	0193 0190
Desmet	0320 0037
Diamant	0037
Dixi	0009 0037
Domland	0394
DTS	0009
Dual	0544 0349 0217 0057 0343 0259 0336 0519 0037 0352 0394 0399 0303
Dual-Tec	0217 0163 0259
Dumont	0087 0104 0102 0213 0217 0070
Dux	0037 0012
Dynatron	0037
EchoStar	0222
Elbe	0435 0238 0259 0362 0292 0370 0163 0037 0218 0191 0411 0610
Elcit	0087 0247 0516 0102 0163
Elekta	0264 0282
Elin	0216 0037 0105 0104 0548 0361 0448 0349 0163 0009
Elite	0218 0037
Elman	0102
Elta	0009

Emerson	0177 0213 0087 0247 0037 0371 0070
Emperor	0282
Erres	0037 0012
Etron	0037 0009 0163
Euro-Feel	0264
Euromann	0216 0264 0037 0217 0421 0370
Europhon	0037 0516 0102 0213 0217 0314 0247 0163
Expert	0206 0400 0259 0163
Exquisit	0037
Fenner	0374 0009
Ferguson	0073 0287 0192 0190 0335 0238 0193 0109 0625
Fidelity	0193 0216 0371 0163 0264 0037
Filsai	0217
Finlandia	0208 0346 0359 0548 0361
Finlux	0105 0104 0037 0346 0217 0072 0163 0076 0516 0070 0087 0179 0102 0314 0411
Firstline	0294 0321 0216 0037 0374 0247 0009 0163 0314 0102 0217 0411 0544 0349 0238 0072 0235 0668
Fisher	0104 0217 0036 0057 0208 0370 0555 0045 0087 0157 0361 0163 0303 0544 0349 0072
Flint	0037 0455 0072 0218
FNR	0102
Forgestone	0193
Formenti	0087 0213 0216 0320 0163 0076
Fortress	0093 0087
Fraba	0370 0037
Friac	0009 0037 0102
Frontech	0247 0264 0349 0431 0448 0217 0009
Fujitsu	0206 0072 0102 0314 0217
Funai	0264 0294 0179
Galaxi	0102 0037
Galaxis	0370 0418 0037 0102
GBC	0213 0163 0009 0374 0218
Geant Casino	0163 0400
GEC	0043 0072 0163 0361 0516 0037 0217 0349
Geloso	0213 0247 0009 0163 0374
General	0109 0287 0471
General Technic	0009
Genexxa	0218 0037 0412
Germanvox	0213
Goldline	0337
Goldstar	0037 0370 0009 0377 0217 0247 0216 0431 0163 0361
Goodmans	0036 0072 0037 0009 0264 0516 0179 0374 0487 0371 0499 0556 0343 0235 0035 0480 0217
Gorenje	0370 0421
GPM	0218
Granada	0037 0400 0226 0356 0359 0012 0045 0072 0108 0208 0217 0076 0036 0339 0516 0473 0335
Grandin	0282 0218 0400 0037 0009 0320 0163 0455 0579 0610
Gronic	0102
Grundig	0535 0195 0534 0191 0554 0487 0070 0076 0237 0037 0556
Halifax	0264 0216 0217
Hampton	0216 0217
Hanimex	0294
Hanseatic	0037 0292 0282 0544 0349 0163 0361 0394 0213 0320 0057 0428 0370 0009 0294 0217 0431 0519
Hantarex	0009 0213 0037
Hantor	0037
Harwood	0009 0412 0037
HCM	0264 0009 0282 0412 0217 0218 0418 0037
Hema	0217 0009
Hemmermann	0349 0544
Hifivox	0109 0196 0399
Hikona	0218
HiLine	0264 0037
Hinari	0208 0179 0036 0037 0218 0009 0163 0355 0443 0487 0235
Hisawa	0282 0218 0400 0455
Hit	0087
Hitachi	0225 0036 0349 0356 0044 0043 0473 0163 0343 0578 0196 0198 0217 0306 0194 0516 0072 0499 0037 0145 0105
Hitsu	0009
Hornophone	0037
Hoshai	0218 0455
Huanyu	0374 0216
Hygashi	0217 0216

Hyper	0009 0216 0217 0247
Hypersonic	0361
Hypson	0037 0264 0217 0282 0455 0400
Iberia	0037
ICE	0264 0217 0037 0371 0218 0216 0009
Ices	0218 0216
Imperial	0037 0247 0370 0418 0163 0074 0084 0076 0349
Indesit	0237 0213
Indiana	0037
Ingersol	0009
Inno Hit	0009 0072 0037 0218 0217 0076 0516 0247
Interbuy	0009 0264 0247
Interfunk	0037 0012 0087 0512 0275 0327 0163 0361 0370 0109
Internal	0037
Intervision	0282 0217 0455 0037 0371 0377 0519 0448 0486 0370 394 0487 0218 0102 0431 0163 0264 0247
Irradio	0009 0037 0218 0247 0076
Isukai	0218 0037 0282
ITC	0217
ITS	0037 0371 0218 0282 0264 0216
ITT	0163 0480 0349 0361 0473 0548 0193 0346 0339 0208 0179
ITV	0264 0037 0247
JEC	0035
JVC	0653 0053 0094 0190 0036 0192 0193 0371 0218 0606
Kaisui	0218 0282 0037 0216 0455 0217 0009
Kamp	0216
Kapsch	0206 0163 0361 0259 0104
Karcher	0037 0421 0370 0282 0102 0314 0610
KB Aristocrat	0163
Kendo	0362 0235 0247 0102 0037 0428 0370 0411 0610
Kennedy	0206 0213 0163 0435
Kingsley	0216
Kneissel	0435 0259 0292 0370 0238 0037 0411
Kolster	0037
Konka	0218 0371
Korpel	0037
Korting	0087 0421 0370 0320
Kosmos	0037
Kotron	0412 0264
Kyoshu	0264 0412
Kyoto	0163
Lenco	0009 0104 0163
Lenoir	0009
Lesa	0247
Leyco	0264 0072 0037 0294 0579
LG	0037 0370 0009 0377 0217 0247 0216 0431 0163 0361
Liesenkotter	0037 0327 0328
Lifetec	0009 0264 0519 0037 0374 0218 0668
Lloyds	0009
Loewe	0512 0037 0087 0292 0370
Logik	0011 0193
Luma	0206 0037 0362 0163 0259 0411 0374 0009
Lumatron	0206 0037 0362 0163 0259 0361 0217 0264 0073
Lux May	0037
Luxor	0194 0237 0480 0492 0349 0361 0208 0356 0548 0163
M Electronic	0346 0037 0512 0109 0343 0057 0247 0105 0104 0374 0009 0217 0480 0492 0216 0411
M Tec	0272
Magnadyne	0087 0247 0516 0102 0163
Magnafon	0516 0213 0076 0102 0314 0216
Magnum	0648
Mandor	0264
Manesth	0037 0235 0217 0264 0320 0035 0294
Marantz	0037
Marelli	0087
Mark	0037 0217 0216 0374 0009
Matsui	0235 0177 0009 0355 0011 0072 0036 0037 0556 0487 0217 0354 0294 0371 0433 0443 0579 0455 0272 0349 0516 0035 0431 0163 0208 0045 0195 0191 0335
McMichael	0043
Mediator	0037 0556 0012
Medion	0037 0668
Megas	0610
Melvox	0400
Memorex	0009

Memphis	0337 0072 0009
Mercury	0037 0009
Metz	0087 0195 0535 0447 0239 0213 0534 0554 0191 0275 0367 0388
Minerva	0487 0535 0195 0070 0076 0534 0191 0554 0237
Minoka	0412 0037 0359
Mitsubishi	0108 0512 0037 0354 0087 0036 0237 0193
Mivar	0292 0370 0076 0216
Monaco	0009
Motion	0076
MTC	0370 0349
Multi Broadcast	0193
Multistandard	0102 0314
Multitech	0217 0349 0009 0216 0247 0102 0314 0486 0370 0037
Murphy	0104 0216 0072 0163
Naiko	0037
Nakimura	0374 0037
National	0237
NEC	0036 0320
Neckermann	0037 0191 0370 0505 0010 0534 0200 0554 0556 0163 0327 0418 0349 0087 0213 0247 0217 0411
NEI	0037 0337 0431 0371
Nesco	0247 0179
Network	0337
Neufunk	0037 0009 0556
New Tech	0037 0009 0556 0343 0217
New World	0218
Nicamagic	0216
Nikkai	0072 0218 0037 0217 0264 0035 0337 0216 0009 0036
Nobliko	0102 0076 0070 0216 0314
Nogamatic	0399 0109 0196
Nokia	0361 0163 0480 0349 0548 0492 0359 0473 0557 0339 0208 0374 0631 0606 0346
Nordmende	0109 0287 0399 0196 0343 0198 0213 0195
Novatronic	0037 0105
Oceanic	0163 0400 0361 0294 0208
Okano	0370 0037 0264 0072
Omega	0264
Onwa	0371 0218 0433
Opera	0037
Orbit	0037
Orion	0235 0294 0177 0320 0355 0011 0037 0009 0321 0314 0102 0443
Orline	0037 0218
Osaki	0072 0218 0217 0264 0037 0412 0272 0374
Osio	0037
Oso	0218
Osume	0157 0072 0036 0218
Otto Versand	0010 0505 0036 0093 0512 0037 0556 0534 0535 0195 0544 0349 0554 0191 0361 0235 0109 0213 0294 0226 0247 0303 0320 0217
Pael	0216
Palladium	0370 0037 0191 0505 0010 0534 0200 0418 0554 0556 0247 0327 0349 0087 0163 0213 0217 0411
Palsonic	0264 0412 0037
Panama	0009 0217 0264 0216 0037 0247
Panasonic	0226 0650 0250 0126 0213 0361 0237 0367 0516 0037 0163 0548
Panavision	0037 0411
Pathe Cinema	0163 0238 0216 0400 0320 0301 0292 0349
Pathe Marconi	0213 0109 0301 0196 0198 0399 0237
Pausa	0009
Perdio	0072 0320 0163 0037
Perfekt	0037
Philco	0087 0084 0074 0418 0076 0213 0247 0163 0370 0037
Philharmonic	0217
Philips	0037 0556 0012 0013 0323 0554 0191 0043 0087 0193 0423 0343
Phoenix	0037 0087 0320 0486 0370 0216 0163 0072
Phonola	0037 0556 0012 0013 0087 0193 0216
Pioneer	0037 0423 0428 0370 0343 0361 0109
Pionier	0370 0486
Plantron	0037 0264 0009
Playsonic	0217
Poppy	0009
Prandoni-Prince	0247 0516 0361 0213 0076
Precision	0217
Prima	0009 0264
Prinz	0072 0057 0544 0349 0194
Profex	0009 0163 0431

Profi-Tronic	0037 0314 0102
Proline	0321 0072 0037 0012 0625
Prosonic	0037 0216 0370 0374 0579 0371
Protech	0037 0217 0009 0247 0349 0102 0264 0431 0418 0337 0668
Provision	0499 0037
Pye	0037 0556 0012 0013 0087
Pymi	0009
Quadra Vision	0400
Quasar	0247
Quelle	0037 0010 0011 0109 0512 0535 0544 0349 0554 0191 0361 0036 0217 0247 0074
	0084 0327 0306 0070 0104 0105 0157 0195 0200 0213 0264 0191
Questa	0036
R-Line	0037
Radialva	0109 0218 0431 0163 0037
Radiola	0037 0556 0012 0323 0301
Radiomarelli	0087 0516 0247 0037
RadioShack	0037
Radiotone	0009 0037 0428 0370 0579 0418 0264
Rank	0070
Recor	0037
Rediffusion	0361 0548
Redstar	0037
Reflex	0037
Revox	0037 0370
Rex	0206 0411 0247 0163 0259
RFT	0087 0292 0370 0428 0072
Roadstar	0009 0264 0218 0418
Robotron	0087
Roxy	0448
Royal Lux	0421 0370 0412
RTF	0087
Saba	0287 0213 0087 0399 0163 0109 0516 0343 0361 0498 0196
	0198 0335 0625 0548
Sagem	0455 0610
Saisho	0235 0516 0177 0009 0011 0217 0431 0163 0264 0354
Salora	0222 0194 0349 0163 0356 0359 0361 0516 0548
Sambers	0213 0516 0076 0102 0314
Samsung	0037 0556 0587 0009 0217 0448 0370 0264 0090 0216 0072 0208
Sandra	0216 0217
Sanela	0238
Sansui	0037
Sanyo	0208 0157 0292 0036 0011 0370 0339 0072 0216 0217 0104
	0213 0045 0009 0544 0163
SBR	0037 0556 0012
Schaub Lorenz	0349
Schneider	0037 0556 0012 0057 0303 0544 0349 0519 0394 0352 0336
	0259 0323 343 0217 0247 0371 0218 0361 01630668
SEG	0217 0264 0009 0247 0036 0102 0362 0163 0314 0037 0216 0668
SEI	0087 0102 0010 0163 0516 0544 0349 0213 0294 03140206 0037
Seleco	0206 0259 0362 0163 0411
Sencora	0009
Sentra	0035 0218 0009
Serino	0455 0610
Sharp	0093 0157 0036 0294 0053
Shorai	0294 0179
Siarem	0163 0087 0102 0213
Siemens	0191 0534 0535 0554 0200 0195 0301 0213 0327 0328 0157 0037
Sierra	0037 0556 0012
Siesta	0370
Silva	0216
Silver	0036 0361 0179
Singer	0087 0102 0247 0400 0435
Sinudyne	0177 0087 0235 0102 0213 0294 0163 0361 0516 0544
	0349 0010 0314 0206 0037
Skantic	0356
Sogera	0320
Solavox	0361 0072 0163 0548
Sonitron	0208 0370 0339 0217
Sonoko	0037 0009 0264 0282 0217
Sonolor	0208 0163 0400 0505 0010
Sontec	0037 0370 0294
Sony	0010 0505 0011 0036 0102 0314
Sound & Vision	0102 0218 0374
Soundwave	0037 0320 0418
Ssangyong	0009

Standard	0218 0009 0217 0320 0037 0374
Star Lite	0009 0163 0037
Stenway	0282 0218
Stern	0206 0259 0163
Strato	0037 0264 0009
Sunkai	0294 0355 0321 0455 0218 0235
Sunstar	0371 0037 0009
Sunwood	0037 0009
SUperla	0516 0216
SUPertech	0009 0037 0216 0556
SUPra	0374 0009
Susumu	0335
Sutron	0009
Sydney	0216 0217
Sytong	0216
Tandberg	0367 0411 0109 0337 0196 0362
Tandy	0218 0072 0217 0247 0093
Tashiko	0036 0043 0217 0216 0359 0163
Tatung	0072 0516 0217 0272 0037 0011
Teac	0037 0512 0455 0264
TEC	0217 0009 0247 0471 0335 0337
Technema	0320
Teleavia	0109 0287 0196 0399
Telecor	0037 0163 0218 0217 0259
Telefunken	0109 0498 0471 0399 0287 0074 0084 0101 0335 0262 0306 0073 0343 0196 0037 0486 0625
Telefusion	0037
Telegazi	0037 0163 0259 0218 0264
Telemeister	0320 0037
Telesonic	0037
Telestar	0037
Teletech	0009 0247 0337 0037
Teleton	0217 0275 0206 0163 0349 0259 0036
Televideon	0320 0163 0216
Televiso	0400
Temco	0294
Tensai	0104 0218 0037 0217 0294 0320 0009 0105 0374 0371 0377 0247
Tenson	0320
Texet	0217 0374 0009
Thomson	0287 0399 0109 0471 0335 0196 0198 0237 0343 0037 0625
Thorn	0193 0073 0190 0238 0192 0074 0084 0499 0037 0104 0335 0512 0359 0272 0374
Tokai	0072 0037 0448 0337 0163 0217 0374
Tokyo	0216 0035 0448
Tomashi	0282
Toshiba	0035 0553 0508 0243 0036 0070 0102
Towada	0349 0102 0314
Trans Continens	0217 0037
Trident	0516 0217
Tristar	0218 0193
Triumph	0177 0516 0346 0556 0037 0243
Uher	0076 0037 0057 0206 0320 0303 0374 0418 0486 0370 0259
Ultra	0192
Ultravox	0087 0102 0374 0247 0216 0163 0213 0314 0037
Unic Line	0037 0473
United	0037
Universum	0346 0105 0535 0195 0473 0361 0247 0492 0480 0370 0200 0418 0011 0512 0294 0036 0157 0070 0163 0010 0104 0037 0421 0411 0074 0306 0213 0327 0328 0505 0076 0544 0349 0217 0109 0362 0337 0177 0631
Univox	0337 0087 0037 0163 0238
Vestel	0037 0163 0217
Vexa	0009 0037
Videologique	0216 0218 0217
VideoSystem	0037
Videotechnic	0216 0320 0217
Videoton	0356 0163 0431
Visiola	0216
Vision	0037 0320
Vistar	0206 0361
Vortec	0037
Voxson	0087 0076 0037 0418
Waltham	0217 0356 0418 0287 0037
Watson	0037 0320 0163 0218 0213 0579 0519 0394
Watt Radio	0213 0102 0544 0349 0163 0216
Wega	0213 0036 0087 0037

Wegavox	0009
Weltblick	0037 0320
White Westinghouse	0320 0216 0037 0337
Windstar	0282
Xrypton	0037
Yamishi	0282 0455 0218 0037 0217
Yokan	0037
Yoko	0217 0037 0218 0264 0009 0431 0421 0370 0339
Yorx	0218
Zanussi	0206 0217
Zenor	0339

Video Recorders set-up codes:

Adelsound	0004
Adyson	0072
Aiwa	0307 0000 0041 0209 0348 0352 0037
Akai	0106 0315 0053 0288 0041 0020 0352
Akiba	0072
Akitan	0295
Akura	0271 0072 0041
Alba	0278 0072 0333 0334 0209 0352 0020 0295 0000 0315 0348
Allorgan	0240
Allstar	0322 0081
Ambassador	0020
Amstrad	0000 0325 0332 0278 0072
Anitech	0072 0322
Ansonic	0004
Aristona	0081
ASA	0037 0081
Asuka	0072 0037 0081 0000 0038
Audiosonic	0278
Audioton	0020
Baird	0106 0278 0104 0107 0041 0000
Bang & Olufsen*	0499
Basic Line	0278 0209 0020 0072
Bestar	0278 0020
Black Panther Line	0278
Blaupunkt	0226 0081 0154 0227 0162 0006 0195 0403 0003 0034
Blue Sky	0037 0209 0348
Bondstec	0020 0072
Bosch	0154
Brandt	0041 0187 0297 0206 0320 0321 0493
Brinkmann	0209 0348
Brionvega	0344
Bush	0072 0278 0315 0333 0334 0209 0352 0000 0348
Carena	0209 0081
Carrefour	0045
Casio	0000
Cathay	0278
Catron	0020
CGE	0041 0000
Cimline	0072 0209
Clatronic	0020 0072
Combitech	0352
Condor	0020 0278
Crown	0278 0072 0020 0322 0271
Daewoo	0278 0020 0045 0209 0352
Dansai	0072 0278
Daytron	0278
Decca	0000 0041 0081 0008 0067
DeGraaf	0042 0166 0081 0104 0048 0046
Denko	0072
Diamant	0037
Domland	0209
Dual	0041 0081 0278 0000
Dumont	0000 0081 0104 0105
EchoStar	0222
Elbe	0278 0038
Elcotech	0072
Elin	0240
Elsay	0072
Elta	0072 0278
Emerson	0072 0045

ESC	0278 0020 0240
Etzuko	0072
Europhon	0020
Ferguson	0107 0041 0320 0321 0053 0493 0000
Fidelity	0000 0072 0325
Finlandia	0104 0081 0042 0166 0000 0048
Finlux	0000 0081 0104 0042 0105
Firstline	0072 0209 0348 0043 0037 0045 0042
Fisher	0047 0104 0054 0046 0038 0020
Flint	0209
Frontech	0020 0322
Fujitsu	0000
Funai	0000
Galaxy	0000
GBC	0020
GEC	0081
General	0020
General Technic	0348
Genexxa	0104
Goldhand	0072
Goldstar	0037 0000
Goodmans	0000 0072 0240 0278 0037 0020 0081 0348 0209 0403
Graetz	0041 0104 0240 0344
Granada	0104 0046 0048 0081 0006 0240 0037 0226 0042 0235 0000
Grandin	0072 0037 0020 0000 0278
Grundig	0007 0195 0081 0347 0349 0226 0003 0006 0403 0320
Hanimex	0295 0352
Hanseatic	0037 0209 0278
Hantor	0020
Harwood	0072
HCM	0072 0322
Hinari	0004 0072 0208 0209 0352 0041 0322 0278
Hisawa	0209 0352
Hitachi	0042 0166 0235 0105 0041 0000 0240 0081 0004 0104 0403
Hornymphone	0081
Hypson	0072 0209 0278
Impego	0020
Imperial	0000 0240
Ingersol	0004 0209 0240
Inno Hit	0020 0240 0278 0322 0072
Interbuy	0037 0072
Interfunk	0081 0104
Intervision	0000 0278 0037 0209 0348
Irradio	0072 0037 0081
ITT	0106 0041 0046 0235 0344 0384 0104 0240
ITV	0278 0037 0020
JVC	0041 0067 0008 0206 0207 0384
Kaisui	0072
Kendo	0106 0209 0315 0053 0348 0072 0037
Kenwood	0041
Kimari	0047
Kneissel	0352 0209 0348
Korpel	0072
Kuba	0047
Kyoto	0072
Leyco	0072
LG	0037 0000
Lifetec	0209 0348
Loewe Opta	0081 0006 0037 0105 0004 0454 0162
Logik	0004 0240 0072 0106 0209
Lumatron	0278
Luxor	0106 0046 0043 0072 0104 0047 0048
M Electronic	0000 0037 0038
Magnavox	0081 0403
Manesth	0072 0045 0081 0209
Marantz	0081 0038 0006 0003 0295 0209
Mark	0278
Marquant	0322
Matsui	0209 0004 0295 0348 0037 0208 0240 0352 0332 0000
Mediator	0081
Medion	0209 0348
Memorex	0104 0000 0046 0037 0048 0047
Memphis	0072
Metz	0195 0347 0081 0162 0227 0226 0454 0459 0006 0003
Migros	0000

Minerva	0195
Mitsubishi	0043 0067 0081
Multitech	0000 0072 0020 0104 0322
Murphy	0000
National	0226 0162
NEC	0041 0038 0067
Neckermann	0041 0208 0006 0081 0344
Nesco	0072 0000 0352
Neufunk	0209
Nikkai	0020 0072 0278
Nokia	0104 0106 0315 0041 0278 0046 0344 0240 0048 0042 0081
Nordmende*	0041 0297 0384 0320 0321 0187 0207 0494 0528
Oceanic	0000 0048 0106 0081 0104 0041 0046
Okano	0315 0209 0348 0072 0322 0278
Orion	0209 0004 0208 0295 0352 0348 0333 0334
Orson	0000
Osaki	0000 0037 0072
Otake	0333 0334
Otto Versand	0081
Palladium	0072 0315 0037 0041 0006 0209 0004 0240
Panasonic	0226 0227 0162 0454 0459
Pathe Cinema	0004 0043
Pathe Marconi	0041
Perdio	0000 0209
Philco	0038 0072
Philips	0081 0006 0146 0403
Phonola	0081
Pioneer	0067 0081 0042 0235
Portland	0020 0278
Prinz	0000
Profex	0322
Profi-Tronic	0081 0240
Proline	0000
Proscoc	0278
Prosonic	0209 0278 0000
Protech	0081
Provision	0278
Pye	0081
Quelle	0006 0208 0081 0344
Radialva	0037 0072 0081 0048
Radiola	0081
Rex	0041 0384
RFT	0020 0403 0072
Roadstar	0240 0072 0037 0278
Royal	0322 0072
Saba	0041 0187 0297 0206 0207 0320 0321 0384 0494
Saisho	0004 0209 0208 0348
Salora	0046 0043 0106 0104
Samsung	0240 0432
Samurai	0020
Sansui	0041 0067 0271 0106 0072 0322
Sanwa	0004
Sanyo	0104 0046 0047 0048
Saville	0352 0278 0240
SBR	0081
Scan Sonic	0240
Schaub Lorenz	0041 0344 0106 0000 0104
Schneider	0072 0000 0037 0081 0278 0240
SEG	0072 0240 0322 0278
SEI-Sinudyne	0004 0081
Seleco	0041 0008 0384 0020 0037
Sentra	0072 0020
Sentron	0072
Sharp	0048
Shintom	0072 0104
Shivaki	0037
Shorai	0004
Siemens	0195 0006 0037 0104 0007 0081 0003 0146 0054
Sierra	0081
Silva	0037
Silver	0278
Singer	0271
Sinudyne	0004 0081
Solovox	0020
Sonitron	0047

Sonneclair	0072
Sonoko	0278
Sonolor	0048
Sontec	0037
Sony	0033 0034 0032 0011 0106
Soundwave	0037 0209
Ssangyong	0072
Standard	0278
Starlite	0037 0104
Stern	0278
Strong	0271
Sunkai	0209 0295 0348
Sunstar	0000
Suntronic	0000
Sunwood	0072
SUPra	0037 0240
Symphonic	0000 0072
Taisho	0004 0209
Tandberg	0278
Tashiko	0000 0048 0240 0081 0037
Tatung	0000 0041 0081 0053 0048 0043 0209
Teac	0041 0000 0278
TEC	0020 0278 0072
Teleavia	0041 0187
Telefunken	0187 0041 0297 0320 0321 0384 0493 0494 0530
Teletech	0322 0072 0278
Tenosal	0072
Tensai	0000 0322 0037 0072 0004
Thomson	0041 0384 0320 0206 0321 0493 0494 0528
Thorn	0041 0104 0037
Tokai	0072 0037 0041 0104
Toshiba	0045 0041 0384 0043 0081 0403
Towada	0322 0072
Towika	0072
Triumph	0208
TVA	0020
Uher	0037 0240 0344
Ultravox	0344 0278
Unitech	0240
United Quick Star	0278
Universum	0000 0325 0081 0240 0037 0106 0348 0195 0006 0003 0209 0322 0403
Victor	0008 0067
Watson	0081
Weltblick	0037
White Westinghouse	0344
Yamishi	0072 0278
Yokan	0072
Yoko	0037 0072 0020 0240
ZX	0209



APPENDIX B EHOSTAR SET-UP CODES:

Tri control Code 0222 DSB-8200 AD3000 IP D2510 IP	Set-up code: 0511 D2500 I.P. DSB-1000 2Ci	Set-up code: 0453 AD2000 I.P.	Set-up code: 0853 DSB2000	Set-up code: 0218 SR1500
Power/Stby	Power/Stby	Power/Stby	Power/Stby	Power/Stby
SAT	✘	✘	✘	✘
TV	✘	✘	✘	✘
VCR	✘	✘	✘	✘
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
0	0	0	0	0
TV/Radio	TV/Radio select	TV/Radio select	✘	✘
FAV	Favorite	Favorite	X- Favorite	✘
Mute	Mute	Mute	Mute	Mute
CH+	Channel Up	Channel Up	Channel Up	Channel Up
CH-	Channel Down	Channel Down	Channel Down	Channel Down
VOL+	Volume Up	Volume Up	Volume Up	Volume Up
VOL-	Volume Down	Volume Down	Volume Down	Volume Down
Recall	✘	TV/DBS	Exit	Recall
EPG	Guide	Guide	EPG	✘
Menu	Menu-Navigator	Menu-Navigator	Menu-Navigator	SetUp menu
Up	Channel Up	Channel Up	Up cursor	Tuning- Up
Down	Channel Down	Channel Down	Down cursor	Tuning- Down
Left	Volume Down	Volume Down	Left cursor	✘
Right	Volume Up	Volume Up	Right cursor	✘
OK	OK/Store	OK/Store	OK	Enter- store
I	Info	Info	Info	View
Exit	Exit	Exit	E- Function key	✘
Red	✘	✘	A- Function key	✘
Green	✘	✘	B- Function key	✘
Yellow	✘	✘	C- Function key	✘
Bleu	✘	✘	D- Function key	✘
II	✘	DIG/ANA- toggle	✘	P.LOCK
I-II	ALT- language toggle	ALT- language toggle	+- Add. Info, subtitling	Audio
Bookmark	UHF-Select TV or DBS	BACK-Background toggle	TV/SAT Select TV or DBS	✘
Red dot (View)	SAT-List of satellites	SAT-List of satellites	SERV- Info subscription	✘

✘ = No function transmitted

Tri control code 0222 DSB-8200 AD3000 IP	Set-up code: 0871 DSB9800	Set-up code: 0454 LT8700*, SR8700, SR5700, SR7700	Set-up code: 0688 LT80+	Set-up code: 0713 SR-35, SR-45, SR-55, SR-100, SR-200 IP
Power/Stby	Power/Stby	Power/Stby	Power/Stby	Power/Stby
SAT	*	*	*	*
TV	*	*	*	*
VCR	*	*	*	*
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
0	0	0	0	0
TV/Radio	TONE- TV/Radio select	A/V	TV/SAT	Radio
FAV	----	FAVORITE	RADIO/SAT-	FAV/MAIN
Mute	Mute	Mute-	Mute-	Mute-
CH+	Cursor Up	Channel Up	Channel Up	Channel Up
CH-	Cursor Down	Channel Down	Channel Down	Channel Down
VOL+	Cursor left	Volume Up	Volume Up	Volume Up
VOL-	Cursor right	Volume Down	Volume Down	Volume Down
Recall	*	RECALL SAT	*	TV- Select TV or Sat
EPG	*	*	*	*
Menu	Menu-Navigator	MENU	Menu-Navigator	*
Up	Cursor Up	*	Ch Up	Up cursor
Down	Cursor Down	*	Ch Down	Down cursor
Left	Cursor left	Left cursor	Tuning Left	Left cursor
Right	Cursor right	Right cursor	Tuning Right	Right cursor
OK	OK-	Select	Store	Store
I	Info	Cancel	*	*
Exit	ESC- Escape, exit	VIEW	Cancel	*
Red	*	==== - teletext	WEST	WEST
Green	*	*	SAT	*
Yellow	*	< >	STOP	*
Bleu	*	=?=	EAST	EAST
II	*	Subtitling on/off	P.LOCK- set change p. Lock	TIMER- set timer
I-II	Info subtitling	TUNE	AUDIO- audio menu	LOCK
Bookmark	<--> Select TV or DBS	PPV	VIDEO- video menu	MIX
Red dot (View)	*	Store	Enter- Ok	INDEX- system info

* LT8700; will not be affected by the Tri control Addressing feature

* = No function transmitted

Tri control code 0222 DSB-8200 AD3000 IP	Set-up code: 0312 IR700	Set-up code: 0170 SR5500	Set-up code: 0456 LT7500	Set-up code: 0100 SR4500
Power/Stby	Power/Stby	Power/Stby	Power/Stby	Power/Stby
SAT	*	*	*	*
TV	*	*	*	*
VCR	*	*	*	*
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
0	0	0	0	0
TV/Radio	*	*	*	*
FAV	ERASE	FAV, CANCEL	*	FCH, fav list
Mute	Mute	Mute-	Mute	Mute
CH+	Channel Up	Channel Up	Tuning- Up	Ch Up
CH-	Channel Down	Channel Down	Tuning- Down	Ch Down
VOL+	<i>Punch through TV</i>	Volume Up	Volume Up	Volume Up
VOL-	<i>Punch through TV</i>	Volume Down	Volume Down	Volume Down
Recall	ERASE	*	TES/CANCEL-	ERASE
EPG	*	*	*	*
Menu	*	ENTER SATELLITE	Menu	FORMAT
Up	Tuning- Up	*	Tuning- Up	VIDEO FINE- Up
Down	Tuning- Down	*	Tuning- Down	VIDEO FINE- Down
Left	SKEW- Down	<- Tuning	<- Tuning	SKEW- Down
Right	SKEW- Up	-> Tuning	-> Tuning	SKEW- Up
OK	Store	Store	Enter	*
I	*	EXTRA FEATURES	*	VIDEO DEVIA
Exit	CANCEL	*	*	POSITION
Red	WEST	*	Down	WEST
Green	SAT- Pos. control	Tuning SELECT	SAT	SAT
Yellow	STORE	FSS/DBS	SKEW	LOCK
Bleu	EAST	AUDIO BANDWITH	Up	EAST
II	V/H	AUDIO DE-EMPH	BRF/TEF/STORE	AUDIO DE-EMPH
I-II	A/B- audio tuning	STEREO	AUDIO	BANDWITH
Bookmark	SELECT	FORMAT	VIDEO	POLARITY
Red dot (View)	DECODER	MASK	SCAN/ERASE	CLAMP

* = No function transmitted