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## About Your **KAMELEON 1**

### Easy to use unique "EL" display

By choosing the ONE FOR ALL **KAMELEON 1** universal remote control you have opted for easy use. Your **KAMELEON 1** features a unique, user-friendly backlit display, which ensures you have easy access to all the keys you need, whilst hiding those you don't. Made of the strictest quality, it will provide long-term satisfaction. After replacing batteries, you will need to first press any key before the screen will light up. From then on, the display will automatically illuminate whenever the remote is picked up (touching screen and remote simultaneously). It is also possible to change the activation-mode into activation by key press. To set the "EL" display to activation by key press, see page 3, section: "EL" screen activation setting. Also, this product comes with a build-in light sensor which will increase the brightness in a bright environment and decrease the brightness in a dark environment.

### Learning feature

The **KAMELEON 1** comes equipped with the unique "learning feature", which means that you can copy almost any function (max. ± 30) from your original (working) remote control onto your new **KAMELEON 1** (See "Learning Feature" on page 10). This comes in handy, when after having setup your **KAMELEON 1** you may find that some functions from your original remote are missing on your **KAMELEON 1** key pad.

## Batteries

Your **KAMELEON 1** requires 2 AA/LR6 batteries.

1. Push the battery door upwards and lift it up to remove it.
2. Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
3. Replace the battery cover by pushing downwards and allowing it to click back into position.

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- *After re-installing the batteries, the entire "EL" display will be lit for a duration of 6 seconds upon the first key press after which it will default to the main mode.*

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### Low Voltage Indicator

As soon as the batteries run out of power the **KAMELEON 1** will indicate this. The IR indicator will flash 5 times whenever you press a key. Please make sure to replace the batteries with 2 new AA/LR6 alkaline batteries.




# The Keypad

	= MAGIC (hat) key
	= The animated IR Indicator that will light up during programming

## "EL" Screen activation setting

The *KAMELEON 1* features an "EL" panel which is activated **by touching screen and remote simultaneously** or **by keypress**.

It is possible to **lock** the *KAMELEON 1* to one activation setting:







-  **Press and hold the MAGIC key until the rabbit comes out of the hat.** 
-  Now press **9 8 9**. The IR Indicator will blink twice (or 4 times).

- > If the animated IR Indicator blinks **twice** the "EL" panel will be **activated only by touching screen and remote simultaneously**.
- > If the animated IR Indicator blinks **four times** the "EL" panel will be **activated only by keypress**.

Simply perform these steps to lock the *KAMELEON 1* to the activation setting that you prefer.

## "EL" Screen brightness adjustment

To increase or decrease the brightness of the *KAMELEON 1* "EL" screen:


-  **Press and hold the MAGIC key until the rabbit comes out of the hat.** 
-  Press **9 7 4**.
- >  To increase the brightness of the "EL" screen press and hold **CH+**.
- >  To decrease the brightness of the "EL" screen press and hold **CH-**.
-  Press **MAGIC** to store the brightness setting.

- Increasing the brightness of the *KAMELEON* "EL" panel can decrease the battery life. Battery life varies from 3 - 12 months (depending on brightness setting and usage).

# The Keypad


## "EL" On time setting

To change the time (default: 8 sec.) that the *KAMELEON 1* "EL" screen will be ON, after each keypress during use of the remote (not programming mode):

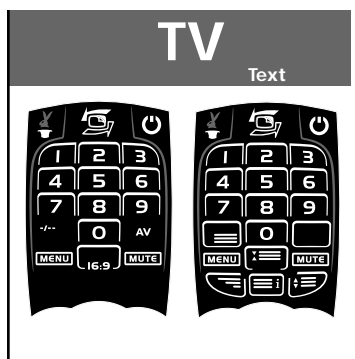
-  Press and hold the **MAGIC** key until the rabbit comes out of the hat.




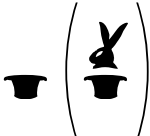
-  Press **9 7 8**.

-  Press **1, 2, 3, 4** or **5** (e.g. 1 = 4 seconds) depending on your choice, see table below. The animated IR Indicator will blink twice.



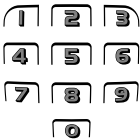




Selection	"EL" On Time
1	4 seconds
2	8 seconds (default)
3	12 seconds
4	16 seconds
5	20 seconds













-  **IR (infra-red) Indicator**  
The IR Indicator will give feedback when keys are pressed both during normal use and in programming mode.

-  **MAGIC (in "shifted" or "programming" mode)**  
The MAGIC key is used to set up your *KAMELEON 1* and to access special functions.

## The Keypad

3.  **SCROLL**  
The SCROLL key gives you the possibility to move through the different screens.
4.  **POWER (in shifted mode; Sleptimer)**  
The POWER key controls the same function as on your original remote. In shifted mode (accessed by pressing MAGIC shortly and releasing it) the POWER key becomes the Sleptimer function (see page 15).
5.  **Number keys**  
The number (1 – 9, 0) keys provide functions just like your original remote.
6.  -/-- **-/--**  
If your original remote uses one/two digit input switching (-/-- symbol), this function can be obtained by pressing the -/-- key.
7. **AV** **AV**  
The AV key operates the same function it did on your original remote control. If your original remote uses a 20 key, this function can be found by pressing the AV key.
8.  **MENU**  
The MENU key operates the same function it did on your original remote control.
9. **16:9** **16:9**  
In TV mode you will obtain the 16:9 (screen format) function.
10.  **MUTE**  
The Mute key operates the same function it did on your original remote control.
11.  **CH +/- (in shifted mode; brightness +/-)**  
These keys operate just as those on your original remote. In shifted mode (accessed by pressing MAGIC shortly and releasing it) these keys may provide you the brightness +/- function.







## The Keypad

12.  **OK**  
In menu mode this key will confirm your choice. On some devices you can confirm your menu option simply by pressing MENU.
13.  **Directional keys**  
If available on your original remote control, these keys will allow you to navigate through the menu. On some TV's you may have to press CH+/- and VOL+/- keys OR the color keys (red, green, yellow, blue) to navigate through the menu, depending on your model of TV.
14.  **VOL +/- (in shifted mode; colour +/-)**  
The volume keys operate just as those on your original remote. In shifted mode (accessed by pressing MAGIC shortly and releasing it) these keys may provide you the colour +/- function.
15. **Teletext Keys**  
These keys are used to operate the main teletext functions. Of course, your Television must have teletext capability. For a more detailed explanation of teletext and fasttext, please refer to the manual of your television. Remember, different televisions control teletext and fasttext functions in different ways. Not all of the teletext functions may be available on your particular model.
-  **TEXT ON:** Once in text mode, pressing this key may switch to MIX or TURN OFF text, depending on your television.
-  **TEXT OFF:** Switches the television back to regular viewing mode. On some televisions this may be done by pressing the "TEXT ON" key several times.
-  **HOLD/STOP:** Stops changing pages.
-  **MIX:** Shows both text and TV picture.
-  **TEXT INDEX:** This key will give you access to the index function within the text mode.
-  **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 ON key, depending on your television.
16.  **Red / Green / Yellow / Blue**  
When accessing the text mode, the colour keys marked red, green, yellow and blue, allow you to access the fasttext functions of your television. If on your original remote control these keys are used for Menu navigation, the *KAMELEON 1* Fasttext keys may operate the same.

# Setting up the **KAMELEON 1**

(How to set up the **KAMELEON 1** to control your television)

To set up the **KAMELEON 1** for your television:

-  **Find your device code in the Codelist (page 16 - 26).** Codes are listed by device mode and brand name. The most popular code for each brand is listed first. If your brand is not listed at all in the code section, try the Search Method on page 8.
- Make sure your television is **switched ON** (not on standby).
-  **Press and hold down the MAGIC key** (for about 3 seconds) until the rabbit comes out of the hat. 
-  Enter your **four-digit code** using the number keys. The bottom part of the animated IR Indicator will blink twice. 
-  **Now, aim your KAMELEON 1 at your television** and press **POWER**. If your television switches off, your **KAMELEON 1** should be ready to control your television.
- Turn your device (television) back on and try all the remote's functions to ensure they are working properly. Most TV's do not switch back on pressing the POWER key, please try pressing a "number" key or the "TV-text off" key to switch your TV back on.
- If your device 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, then try the Search Method described on page 8.

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- *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.*

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# Setting up the **KAMELEON 1**

## Search Method

- > If your device does not respond to the **KAMELEON 1** after you have tried all the codes listed for your brand.
- > If your brand is not listed at all.

The Search Method allows you to scan through all the codes contained in the memory of the **KAMELEON 1**.

### To search for your TV code:

1. Switch ON your Television (not on standby).
2.  **Press and hold down the MAGIC key** (for about 3 seconds) until the rabbit comes out of the hat. 
3.  Press **9 9 1**, the bottom part of the animated IR Indicator will light up twice. 
4.  Next, press **POWER**.
5.  **Point the **KAMELEON 1** at your Television. Now press CH+ over and over, until your Television turns off** (every time you press the CH+ key the **KAMELEON 1** will send out a POWER signal from the next code contained in the memory). **You may have to press CH+ many times (up to 150 times) so please be patient. Remember to keep pointing the **KAMELEON 1** at your Television while pressing this key.** (If you skip past a code, you can go to the previous code(s) by pressing the CH - key.)
6.  **When your Television switches off**, press the **MAGIC** key to store the Code. The bottom part of the animated IR Indicator will light up twice. Now your **KAMELEON 1** should be ready to control your television. 

- 
- *Most TV's do not switch on pressing the POWER key. Please try pressing a "number" key or the "TV-text off" key to switch your TV back on.*
  - *If you cannot control your Television properly, please continue the Search Method, you may be using the wrong Code.*
-




## Code blink out


(To find out which code is currently programmed)

If you have set up your *KAMELEON 1* via the Search Method, you can blink back your code for future reference. Please note that the bottom part of the animated IR Indicator will indicate the 4 digits by animated blink(s).


**To blink out your television code:**

1.  Press and hold down the **MAGIC** key until the rabbit comes out of the hat.




2.  Press **9 9 0**, the bottom part of the animated IR Indicator will light up twice.




3.  For the **first** digit of your **four-digit code**, press **1** and count the blinks on the bottom part of the animated IR Indicator. If there are no blinks, the digit is "0".




4.  For the **second** digit, press **2** and count the animated blinks. If there are no blinks, the digit is "0".



5.  For the **third** digit, press **3** and count the animated blinks. If there are no blinks, the digit is "0".



6.  For the **fourth** digit, press **4** and count the animated blinks. If there are no blinks, the digit is "0".  
**Now you have found your four-digit code.**



## Quick code Reference

Write down the code for your television in the boxes below for quick and easy reference.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------

# Learning Feature

(How to copy functions from your original working remote onto the **KAMELEON 1**)

The **KAMELEON 1** comes with a complete library of pre-programmed codes. After you have set up the **KAMELEON 1** for your device, you may find that there are one or more keys that you had on the original remote control, which do not have a place on the **KAMELEON 1** keypad. The **KAMELEON 1** offers a special Learning feature that allows you to copy almost any function from your original remote control onto the keypad of the **KAMELEON 1**.

## Before you start:


- Make sure your original remote is working correctly.
- Make sure neither your **KAMELEON 1**, nor your original remote control is pointing at your device.

## ■ Learning (direct)


**Example:** To copy the "mono/stereo" function from your original TV remote control onto the "16:9"-key of your **KAMELEON 1**.

1. Place the **KAMELEON 1** and your original remote control on a flat surface. Make sure the ends which you normally point at your device are facing each other. Point the original remote to the front left side of the **KAMELEON 1** (see picture below). Keep the remotes at a distance of 2 to 5 cm (0.8 to 2 inches).




2.  Press and hold down the **MAGIC** key (for about 3 seconds) until the rabbit comes out of the hat.




3.  Press **9 7 5**. The IR Indicator will blink twice.

4. **16:9** Press the key (Example: "16:9" key) on the **KAMELEON 1** remote where you want to place the learned function. The IR Indicator will blink three times and then the display will switch off.

5.  Press and hold the key that you want to copy (Example: **mono/stereo**) on your original remote control. The display switches back on and you will see two blinks to indicate successful learning operation.

## Learning Feature

6. If you want to copy other functions within the same mode, simply repeat steps 4 and 5 pressing the next key you want to copy by learning.

7.  To exit the learning mode, **press and hold down the MAGIC key** (for about 3 seconds) until the IR Indicator blinks four times.



- 
- As soon as the display switches off in step 4 you need to press the key (in this example: the "mono/stereo" key) on your original remote within 10 seconds. If no key is pressed while in learning mode, the remote will return to user mode after 30 seconds.
  - If you learn a function on a key, the original KAMELEON 1 function automatically becomes shifted. Press the MAGIC key then the key to access it (this excludes the POWER, Channel and Volume keys). If you learned on a digit key, access the original function by pressing magic twice and then the digit.
  - If you want to learn a function on a key that is not in the main screen, use the SCROLL key to change the screen.
  - The KAMELEON 1 can learn approximately 30 functions. This depends on the other programmed functions and on the remote to be learned from.
  - You can replace a learned function by placing another learned function on top.
  - Please make sure not to use the learning procedure when in direct sunlight or under incandescent lights.
  - Make sure you are using new batteries before following the learning instructions above.
  - Upon changing the batteries, your learned functions will be retained.
- 

### Shifted Learning

It is also possible to place a function *shifted* on a key to maintain the original function.

**Example:** to place the **mono/stereo** function *shifted* on the "red" key.

To place the (e.g. **mono/stereo**) function shifted on the red key, simply follow steps 1-7 on page 10, only press "**MAGIC**" then the "**red**" key (instead of "16:9") during step 4.

To access the e.g. "mono/stereo" function in this example; simply press "**MAGIC**" then the "**red**" key.

- 
- If a Shifted Learned function is placed on the POWER, Channel and Volume keys then the "Sleeptimer" and "Colour & Brightness features will be sacrificed.
  - If you place a function shifted on a digit key (0 - 9) you need to press MAGIC twice then the digit key to access this shifted function.
-

## Learning Feature

### ■ To delete a learned function:

(To delete one single learned function, follow the steps below.)

Example: to delete the **mono/stereo** function learned on the "16:9" key:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 6**. The IR Indicator will blink twice.
3. Press the learned key which you want to restore (example "16:9") **twice**. The IR Indicator will blink twice.

- 
- *The original function (if present) of the KAMELEON 1 will be restored.*
  - *If there is another learned function you want to delete, repeat steps 1 – 3.*
- 

### ■ To delete a "Shifted" learned function:

(To delete one single "shifted" learned function, follow the steps below.)

Example: to delete the **mono/stereo** function learned *shifted* on the "red" key:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 6**. The IR Indicator will blink twice.
3. Press **MAGIC**, then press **twice the learned key** which you want to restore (example "red" key). The IR Indicator will blink twice.

- 
- *The original function (if present) of the KAMELEON 1 will be restored.*
  - *If there is another Shifted learned function you want to delete, repeat steps 1 – 3.*
- 

## Operational Reset

The Operational Reset will erase all learned functions.

It may also delete some other programmed functions like Key Magic.

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 8 0**. The IR Indicator will blink four times.

## Extra Features

### Colour & Brightness

Depending on the functions of your original remote control, the *KAMELEON 1* can operate the colour and brightness settings of your Television.

■ **To adjust the colour:**

Press the **MAGIC** key followed by **Volume +** (for colour +) or **Volume -** (for colour -).

■ **To adjust the brightness:**

Press the **MAGIC** key followed by **Channel +** (for brightness +) or **Channel -** (for brightness -).

Depending on how you used colour and brightness on the original remote, you may need to access colour and brightness in a different way (through menu for example).

### Channel +/- simulation

If your original TV remote control does not have any channel +/- keys, your *KAMELEON 1* can simulate this function.

■ **Example: to program "Channel +/- Simulation":**

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 1**. The IR Indicator will light up twice.

The original channel +/- function of your TV (if present) on the CH+/- key will now be sacrificed.

■ **Example: to cancel the "Channel +/- Simulation":**

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 1**. The IR Indicator will blink four times.

The CH+/- function of your TV (if present) will now be restored.

---

- *The Channel +/- simulation will be limited to: (1 – 9, 0).*

---

## Extra Features

### Key Magic®

(How to program missing functions)

Key Magic® is an exclusive ONE FOR ALL feature. The design of the *KAMELEON 1* ensures that many functions of your original remote control can be operated - even those that do not have their own key on the *KAMELEON 1* keypad.

Frequently used functions can be assigned to a key of your choice using the Key Magic® feature of your *KAMELEON 1*. In order to program a certain function with Key Magic® you need to know the corresponding function code. As the function codes vary with different types of devices, they cannot be found in the manual. You can request your function codes through our consumer service help-line, by letter, fax or e-mail.

All we need to know is:

- Brand and Model number of the device in question (for verification if you are using the correct code).
- The 4-digit set-up code your device is working with.
- How the function was labeled on your original remote control.

You can also visit our website ([www.oneforall.com](http://www.oneforall.com)) to find an answer to your questions.

■ **Once you obtain(ed) your function code(s) from customer service, programming the code is easy:**

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 9 4**.
3. Press the **MAGIC** key once.
4. Enter the **5-digit function code** (provided by customer service).
5. Press the **key to which the function will be assigned** (if this key is located in a different screen than the main screen, use the SCROLL key to access the screen). The IR Indicator will blink twice.

- 
- *Key Magic® can be assigned to any key EXCEPT the following: MAGIC key and the SCROLL key.*
  - *Please note all the extended function codes you obtain from customer service for easy future reference.*
- 

■ **EXTENDED FUNCTION REFERENCE**  
(first entry is an example):

DEVICE	SET-UP CODE	FUNCTION	FUNCTIONCODE
TV	0556	16/9 format	00234

## Extra Features

### TV Sleptimer

If your Television has a "Sleptimer" function built in, you can access this function with your **KAMELEON 1** remote. To do so:

1. Make sure your **TV** is **switched on**.
  2. Point the **KAMELEON 1** at your TV and press and release the **MAGIC** key then press **POWER**. You should see the Sleptimer activate on your television. To increase the timer, simply press **POWER** again (within 10 seconds) until the timer gets to the desired time.
- 
- *To deactivate the "Sleptimer", repeat steps 1 – 2 above. During step 2, continue pressing **POWER** again (within 10 seconds) until the timer indicates zero minutes.*
  - *Depending on how you used sleptimer on the original remote, you might need to access sleptimer in a different way (through menu for example).*
- 

## Problem & Solution

### Problem:

### Solution:

Your brand is not listed in the code section?	Try the search method on page 8.
The <b>KAMELEON 1</b> does not operate your television?	A) Try all the codes listed for your brand. B) Try the search method on page 8.
The <b>KAMELEON 1</b> is not performing commands properly?	You may be using the wrong code. Try repeating the Direct Set-Up using another code listed under your brand or start the search method over again to locate the proper code.
Problems changing channels?	Enter the program number exactly as you would on your original remote.
The <b>KAMELEON 1</b> does not respond after pressing a key?	Make sure you are using new batteries and are aiming the <b>KAMELEON 1</b> at your television.
Your original remote had a "20" key?	You can find this function on the AV key.
Upon each keypress, the IR indicator will blink 5 times.	Replace batteries with 2 fresh, new "AA/LR6" alkaline batteries.

## Televisions

## Fernseher

## Téléviseurs

## Televisores

## Televisões

## Televisori

## Televisies

A.R. Systems	0037	0373	0352	0556	0374	0455
Abex	0032					
Accent	0009	0037	0556			
Accuphase	0556	1909				
Acec	0012					
Adcom	0625	0284				
Admiral	0093	0363	0418	0087	0305	0286 0163 0264
Adyson	0068	0217	0216	0032		
AEA	0037	0556				
AEG	1556					
Agashi	0216	0264	0217			
AGB	0075	0516				
Agef	0087					
Aiko	0269	0009	0037	0556	0216	0371 0035 0433 0072 0361 0191 0264 0217
Aim	0037	0072	0412	0556	0274	0753 0208 0706 0805 0068
Alwa	0705	0701	1904	1916	1908	1914 1955 1915
Akai	0361	0208	0269	0371	1537	0037 0803 0433 0745 0191 0702 0035 0284 0672 0009 0696 0072 0753 0218 0806 0552 0729 0714 0163 0488 0546 0516 0715 0075 0602 0556 0548 0581 0480 0217 0631 0216 0264 0448 0178 0329 0377 0606 0708 0351 0586 1037 1908 0473 0648
Akiba	0218	0282	0455	0037	0556	0294
Akira	0190					
Akito	0272	0037	0556			
Akura	0037	0556	0668	1668	0359	0412 0493 0283 0009 0218 0282 0276 0264 0171 0714
Alaron	0179	0216				
Alba	0009	0418	0370	0235	0371	0372 0668 0037 0556 1037 0355 0218 0216 0247 0431 0163 0487 0211 0581 0036 0677 1668 0579 0474 1904 1908 0714 0443
Alcyon	0076	0211				
Alkos	0035					
Allorgan	0206	0294	0217			

Allstar	0037	0556				
Ambassador	0177					
Amplivision	0217	0400	0370	0320		
Amstrad	0177	0009	0516	0264	0354	0371 0075 0218 0171 0037 0556 0433 0412 0362 1037 0648 0581 1904
Anam	0037	0556	0004	0009	0068	0250 0426
Anam						
National	0037	0250	0556	0650	0055	
Anex	0416	0421				
Anglo	0009	0264				
Anitech	0009	0068	0076	0264	0037	0556 0474 0282 0102
Ansonic	0370	0037	0556	0009	0668	0374 0163 0292 0102 0323 0411 0259 0247 1437 0012 0284 0428 1904 0104 1668
Apex Digital	1943					
Apollo	0473					
Arc en Ciel	0399	0501	0109	0196	0568	0333 0198
Arcam	0216	0399	0217			
Ardem	0486	0714	0037	0633	0556	
Aristona	0556	0037	0012	0013		
Arthur Martin	0215	0163	0400	0237		
ASA	0105	0346	0070	0298	0295	0104 0087
Asberg	0037	0556	0076	0102		
Asora	0009					
Astra	0037	0556				
Asuka	0218	0217	0216	0264	0282	1904
ATD	0698					
Atlantic	0037	0556	0216	0206	0475	0320 0259
Atori	0009					
Auchan	0163	0215	0400			
Audiosonic	0009	0037	0374	0556	0109	0714 0715 0217 0370 0337 0264 0218 0486 0428
Audioton	0217	0486	0370	0264	0428	
Audiovox	0451					
Aumark	0060					
Ausind	0076					
Autovox	0087	0206	0537	0237	0076	0286 0544 0349 0295 0217 0247 0336
AVP	1904	1908				
AWA	0011	0036	0009	0157	0374	0451 0412 0037 0556 0216 0606 0217 0108 0264 0785 0883
Axxent	0009					
Axxon	0714					
Ayomi	0317					
Baird	0109	0193	0343	0325	0190	0192 0072 0073 0217 0208 0557 1904
Bang						
& Olufsen	0565	0087	0275			
Barco	0380	0416	0410	0552	0163	
Basic Line	0374	0037	0163	0668	0556	0009 0218 0567 0282 0217 0455 0339 1037 1668
Bastide	0217					
Bauer	0805					



Baur 0009 0146 0303 0535 0195 0512 0037  
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 Bazin 0217  
 Beaumark 0178  
 Beko 0486 0035 0428 0510 0714 0370 0518  
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 Bennett 0556 0037  
 BenQ 1032  
 Beon 0037 0556 0418 0032  
 Berthen 0668 1668  
 Best 0337 0370 0421  
 Bestar 0037 0556 0370 0374  
 Bestar-  
 Daewoo 0374  
 Binatone 0217  
 Black  
 Diamond 0614 1037 0556  
 Black Panther 0102  
 Black Star 0247  
 Black Strip 0035  
 Blacktron 0282  
 Blackway 0282 0218  
 Blaupunkt 0554 0191 0535 0195 0200 0301 0327  
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 Blue Star 0282  
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 Boxlight 0736  
 BPL 0037 0556 0282 0373  
 Brandt 0625 0501 0109 0399 0237 0333 0196  
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 Braun 0366  
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 Broksonic 0236 0463 0426 1905  
 Brother 0264  
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 BTC 0218  
 Bush 0668 0218 0163 0349 0009 0036 0037  
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 Casio 0037 0556 0163 0349 1904  
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 Centrex 0780 0826  
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 Cinex 0648  
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 City 0009  
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 Contec 0216 0009 0157 0011 0036 0264 0037  
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 Cybertron 0218  
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 Daas 0297

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Dansai 0037 0556 0264 0032 0035 0216 0009  
0036 0217 0208

Dansette 0412

Dantax 0370 0486 0714 0606 0715 1908

Datsura 0373 0208

Davis 0736

Dawa 0009 0037 0556

Daytek 0698 0706

Daytron 0009 0374 0037 0556 0039

de Graaf 0208 0044 0227 0163 0548 0363

DEC 0795 0785

Decca 0072 0033 0516 0075 0037 0556 0244  
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Deitron 0037 0556 0374 0218

Denko 0264

Denon 0145

Denver 0037 0556 0606

DER 0193 0190

Derwent 0201

Desmet 0320 0037 0556 0009 0087 0351

Diamant 0037 0556

Diamond 0264 0698 0696 0009 0804 0825 0216  
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Digatron 0037 0556

Digiline 0037 0556 0105 0668 1668

Digitor 0037 0556 0888

Digivision 0361

DIK 0037 0556

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DK digital 1942

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Domland 0394

Doric 0201 0349

Dream Screen 0654

Dream Vision 0673

DTS 0009

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0072 0347 1904

Dunai 0544 0163

Durabrand 1437

Dux 0037 0556 0012

Dynatron 0037 0556 0012

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Ecco 0773 0706

Edison-  
Minerva 0487

Eiki 0735

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Elbe-Sharp 0516

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ELG 0037 0556

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Elite 0218 0037 0556 0320 0305

Ellie 0788 0789

Elman 0102

Elta 0009 0068 0264 0216 0431 0474 0347

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0321 1904 1906 1905

Emperor 0282

Enzer 0696 0753

Erres 0037 0556 0012

ESC 0037 0556 0217 0474

Estèle 0552 0163

Etron 0001 0037 0556 0009 0550 0163 0283

Eurofeel 0264 0464 0217 0654

EuroLine 0037

Euroman 0216 0264 0037 0556 0217 0421 0370

Europa 0037 0556

Europhon 0037 0516 0075 0102 0163 0217 0556  
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Excel 0037 0556

Expert 0215 0206 0400 0475 0259 0163 0305  
0521

Exquisit 0037 0556 0247

Fagor 0037 0556

Family Life 0037 0556

Fenner 0374 0009

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 Formenti-  
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 Fortress 0093 0087  
 Fraba 0037 0556 0370 0531  
 Fredomatic 0461  
 Friac 0009 0037 0556 0102 0421 0370 0499  
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 Electric 0343 0287  
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 Hammerstein 0264 0060  
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 Harvard 0068  
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 Hema 0217 0009  
 Hemmermann 0349 0544  
 Hifivox 0501 0109 0196 0399 0568 0198  
 Higashi 0216  
 Highline 0264 0037 0556  
 Hikona 0474 0218

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Hitachi	0225 1225 0349 0036 0356 0044 0043 0108 0473 0521 0163 0552 0343 0578 0196 0198 0217 0306 0227 0576 0032 0194 0276 0516 0075 0072 0481 0499 0037 0522 0563 0095 0469 0145 0556 0109 0363 0548 0719 0634 0144 0178 1137 0105 0347 0492 0557 1481 0047 0359 0361 0512 0480 0777 0797 1045 0629 0737 1037 0884 1576	ITS	0037 0371 0218 0282 0264 0216 0009 0556
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Hitsu	0009 0455 0218 0610	ITT Nokia	0361 0548 0163 0546 0557 0521 0473 0480 0347 0349 0346 0208 0179 0339 0351 0567 0586 0606 0610 0631 0363 0431
HMV	0087 0193	ITV	0264 0037 0556 0247 0284 0374
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Home		JEC	0035 0502
Electronics	0606	JMB	0037 0499 0634 0374 0556 0443 1908
Hornophon	0037 0556 0012	Jocel	0712
Hoshai	0218 0455 0282	Jubilee	0556
Huanyu	0374 0216	JVC	0653 0190 0036 0192 0193 0371 0218 0606 0418 0731 1153 0093 1923
Hygashi	0217 0216	Kaisui	0218 0282 0037 0556 0216 0455 0217 0009
Hyper	0009 0216 0217 0247	Kamp	0216
Hypersonic	0361	Kapsch	0163 0361 0206 0475 0259 0104 0557
Hypson	0037 0556 0714 0715 1934 0264 0217 0282 0455 0400 0238 1908 0668 1668	Karcher	0037 0556 0421 0370 0610 0163 0282 0102 0314 0264 0778 0714 1556
Hyundai	0037 0803 0865 0556 0706 0753	Kathrein	0556 0037
Iberia	0037 0556	Kawa	0371
ICE	0264 0037 0371 0009 0556 0218 0217 0216	Kawasho	0216
Ices	0218 0216	KB Aristocrat	0163 0347
Icos	0012	Kendo	0610 0037 0556 0163 0519 0512 0370 0377 0363 0428 0411 0102 0235 0247 0362
Ict	0037 1137 0556	Kennedy	0163 0206 0552 0435
Imperial	0037 0163 0370 0074 0084 0556 0630 0411 0361 0349 0418 0247 0196 0076 0431 0524 0531 0540 0552	Kenwood	0105
Indesit	0237	KIC	0217 0329
Indiana	0037 0556	Kingsley	0216
InFocus	0736 0752 0781	Kiota	0001
Ingelen	0487 0610 0714 0163 0557 0361 1337	Kiton	0556 0037 0668 1668
Ingersoll	0009	Kneissel	0037 0385 0370 0610 0411 0374 0499 0556 0435 0259 0292 0238 0362 1908
Inno Hit	0009 0072 0037 0556 0218 0290 0217 0517 0076 0516 0075 0247 0102 0282	Kolster	0037 0556 0102 0349 0247
Innovation	0519 0037 0556 0068	Konichi	0009
Interactive	0037 0556 0012 0087 0512 0275 0327 0163 0546 0361 0370 0501 0109 0568 0411	Konka	0037 0707 0556 0632 0371 0714 0418 0703 0218 0725 0726 0641 0816 0587 0754 0779 0894
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Interfunk	0037 0556 0012 0087 0512 0275 0327 0163 0546 0361 0370 0501 0109 0568 0349 0557 0247 0200	Korpel	0037 0556
Internal	0037 0556 0499 0374 1909	Korting	0087 0288 0421 0370 0320
International	0216	Kosmos	0037 0556
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		Koyoda	0009

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 KTV 0039 0217  
 Kuba 0349 0163  
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 Kuro 0373  
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 Kyoto 0385 0032 0163 0216 0217  
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 Legend 0009  
 Lemair 0411 0032  
 Lenco 0037 0009 0163 0374 0556 0104 0474  
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 MAXIVIDEO 0788 0789 0314  
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 Medion 0037 0668 0519 0512 0556 1137 0698  
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 Microstar 0808  
 Midland 0032 0039 0047  
 Minato 0037 0556  
 Minerva 0487 0535 0195 0070 0076 0191 0554  
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 Minoka 0412 0037 0556 0359  
 Mirror 1900  
 Mistral  
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 Mivar 0292 0290 0291 0370 0517 0076 0216  
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 Monaco 0009  
 Morgan's 0037 0556  
 Motion 0076  
 Motorola 0055 0093

MTC 0060 0370 0349 0512 0163 0216 0361  
0448

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MTlogic 0714

Multi-  
broadcast 0193

Multimat 0432 0314

Multistandard 0102 0432 0314

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Multitech 0349 0009 0363 0486 0037 0370 0556  
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Murphy 0104 0216 0039 0474 0072 0163 0201  
0351

Musikland 0037 0218 0247 0556

Myryad 0556 0037

NAD 0166 0178 0361 0163

Nagoa 0283

Naiko 0037 0606 0556

Nakimura 0374 0037 0556

Naonis 0363 0163

NAT 0226 0340 0214

National 0214 0226 0237 0340

NEC 0170 1170 1270 0036 0320 0455 0009  
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Nesco 0247 0179 1908

Netsat 0037 0556

Network 0032 0337

Neufunk 0037 0009 0556 0610 0218 0282 0714

New Tech 0037 0009 0556 0343 0217 0448

New World 0218

Nfren 0800

Nicamagic 0216

Nikkai 0072 0218 0037 0556 0217 0264 0032  
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Nikko 0317 0178

Nishi 0482

Nobliko 0102 0076 0070 0216 0314

Nogamatic 0399 0501 0109 0196 0568 0333

Nokia 0361 0163 0480 0349 0548 0492 0359  
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Norfolk 0163

Normerel 0037 0556

Novak 0012 0037 0556

Novatronic 0037 0105 0374 0531 0556

NU-TEC 0455 0698

Nurnberg 0163 0361

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Odeon 0264

Okano 0370 0037 0556 0264 0072 0488 0009

Omega 0264

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Onwa 0371 0602 0218 0433 0581 0102 0431

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Optimus 0250 0650 0166 1924

Optonica 0093

Orbit 0037 0556

Orion 0037 0179 0236 0355 0463 0556 0655  
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Ormond 0385 0668 1037 0037 0556 1668

Orsowe 0516

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0355 0556

Osio 0037 0556 0290

Oso 0218

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Otake 0317

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 Rank Arena 0036 0796 0157 0602 0753  
 RBM 0070 0089  
 RCA 0047 0625 0093 0560 0335 0343 0753  
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 Rectiligne 0037 0556  
 Rediffusion 0201 0361 0351 0548 0036 0346  
 Redstar 0037 0556  
 Reflex 0037 0556 1037 0668 1668  
 Relisys 0865 0876 0877 0878  
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 Revox 0037 0556 0370  
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 Ricoh 0037 0556  
 Roadstar 1037 0009 0418 0037 0556 0668 0218  
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 Robotron 0087  
 Rodex 0037 0556  
 Rowa 0264 0698 0217 0712 0009 0216 0587  
 Roxy 0448  
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 Rukopir 0556 0037  
 Saba 0625 0287 0075 0087 0399 0163 0109  
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 Sagem 0610 0455 0282

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Saivod 0037 0556 0668 0712 1037 1668

Sakai 0163

Sakyno 0455

Salora 0290 0194 0546 0349 0522 0163 0356  
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Salsa 0335

Sambers 0516 0075 0517 0076 0102 0314

Sampo 0032 0039

Samsung 0618 0587 0037 0178 0556 0009 0702  
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Sandra 0216 0217

Sanela 0238

Sansei 0451

Sansui 0037 0729 0556 0706 0371 0655 0727  
0726 0725 0463 0602 0421 0455 0861

Santon 0009

Sanyo 0208 1208 0157 0292 0721 0036 0088  
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0037 0108 0297 0556 0486 0735 0799

Save 0037 0556

Saville 1908

SBR 0037 0556 0012 0193 0013 0043

Schaub  
Lorenz 0349 0347 0548 0714 0606 0361 0546  
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Schneider 1137 0037 0556 0519 0012 0057 0303  
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0550 0343 0217 0247 0371 0361 0218  
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1908 1668

Scotland 0163

Scott 0236 0178 0179

Sears 0047 0146 0171 0178 0179

Seaway 0634

Seelver 0556 1037 0037

SEG 0037 0556 1037 1337 1437 0668 0217  
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SEI 0087 0102 1505 1010 0552 0163 0516  
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0037 0556 0177 0347

Sei-Sinudyne 0102 0206 0294 0296 0314 0347 0516  
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Seleco 0305 0206 0363 0259 0362 0163 0550  
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Sencora 0009

Sentra 0283 0276 0035 0218 0009 0550 0349

Serino 0610 0455 0216 0093

Sharp 0093 0039 1193 0157 0036 0294 0491  
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Shintoshi 0037 0556

Shivaki 0037 0556 0443 0451 0374 0178

Shorai 0294 0179

Show 0418 0009 0072

Siarem 0075 0552 0163 0087 0102 0347 0516

Siemens 0191 0535 0554 0200 0195 0301 0327  
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Siera 0037 0556 0012

Siesta 0370

Silva 0037 0556 0216 0361 0648

Silva  
Schneider 1556

Silver 0036 0037 0455 0361 0556 0179 0715  
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Simpson 0186

Singer 0009 1537 0087 0806 0540 0037 0556  
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Sinotec 0773

Sinudyne 0177 0087 0235 0102 0294 0296 0552  
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Skantic 0357 0356

Sky 0037 0282 0556

Skymaster 0105

Skysonic 0696 0753

SLX 0668 1668

Smaragd 0487

Soemtron 0865

Sogera 0320

Solavox 0032 0361 0072 0163 0548 0351 0550  
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Sonawa 0218

Soniko 0037 0556

Sonitron 0208 0370 0339 0217

Sonneclair 0037 0556

Sonoko 0037 0556 0009 0264 0282 0217

Sonolor 0215 0208 0567 0163 0400 1505 1010  
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Sony 1505 1651 1010 0011 0000 0036 0384  
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Sound  
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Soundesign 0178 0179 0186

Soundwave 0037 0556 0320 0418 0032 0715

Spectra 0009

Ssangyong 0032 0009

Stag 0032

Staksonic 0009



Standard	0037 0556 1037 0218 0009 0217 0320 0374
Starlite	0009 0552 0163 0037 0556 0264 0412
Stenway	0282 0218
Stern	0305 0206 0259 0286 0550 0163 0363 0475 0264 0411 0551 0435
Strato	0037 0556 0264 0009
Stylandia	0217
Sunic Line	0037 0556
Sunkai	0294 0355 0321 0455 0218 0235 0610 0037 0556 0487 0531
Sunstar	0371 0037 0556 0009 0579 0264
Sunwood	0037 0556 0009
Superla	0516 0075 0216 0217
Supersonic	0208 0556 0698 0264 0805
SuperTech	0009 0037 0556 0216 0218
Superton	0075 0431
Supra	0178 0374 0009 0039
Susumu	0474 0335 0269 0218 0287
Sutron	0009
Swissline	0247
Sydney	0216 0217
Sylvania	0186
Symphonic	0171 1904
Sysline	0037 0556
Sytong	0216
T+A	0447
Tactus	0272
Tandberg	0289 0367 0295 0411 0109 0337 0196 0362 0361 0163
Tandy	0039 0218 0072 0217 0247 0276 0093 0163 0540
Tashiko	0036 0043 0217 0146 0170 0032 0216 0359 0163 0363 0372
Tatung	0055 1556 0037 0556 0072 0516 0075 0217 0272 0249 0011 0244 0629 0621 0033 1908
TCM	0714
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Tech Line	0037 0556 0668 1437 1668
Techica	0218
Technema	0320
Technics	0250
TechniSat	0655 0297 0037 0556 0163
Technol Ace	0179
Tecnimagen	0556
Tedelex	0217 0418 0606 1537 0009 0706 0208 0698 0587 0891 0037 0284 0556 0431
Teiron	0009
Teknika	0060 0179 0186 0039

Teleavia	0109 0501 0287 0196 0399 0333 0490 0568 0343
Telecor	0037 0556 0163 0218 0217 0259 0284 0394
Telefunken	0109 0625 0702 0501 0587 0520 0698 0498 0712 0471 0820 0399 0896 0287 0074 0084 0101 0335 0262 0306 0073 0343 0196 0037 0556 0486 0566 0568 0490
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Telegazi	0037 0163 0259 0218 0264 0284 0556
Telemeister	0320 0037 0556
Telesonic	0037 0556
Telestar	0009 0037 0556 0579 0412
Teletech	0037 0556 0668 0009 0247 0337 1037 1668
Teleton	0217 0275 0206 0550 0163 0349 0259 0475 0186 0036 0363
Televideon	0320 0552 0163 0216
Televiow	0037 0556
Televiso	0215 0400
Telexa	0102
Temco	0294
Tempest	0009 0037 0556 0264
Tennessee	0037 0556
Tensai	0104 0218 0037 0556 0217 0294 0320 0009 0105 0374 0371 0317 0377 0247 0715 0163
Tenson	0320 0009
Tesla	0037
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Thorn- Ferguson	0104 0108 0109 0190 0192 0238 0193 0361 0335 0499 0073 0035
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TMK	0178 0177
Tobishi	0218
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Tomashi	0282 0218
Tongtel	0780

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 Visorex 0432  
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