

# VCR Commander Installation Guide

ver 1.05

## Operation

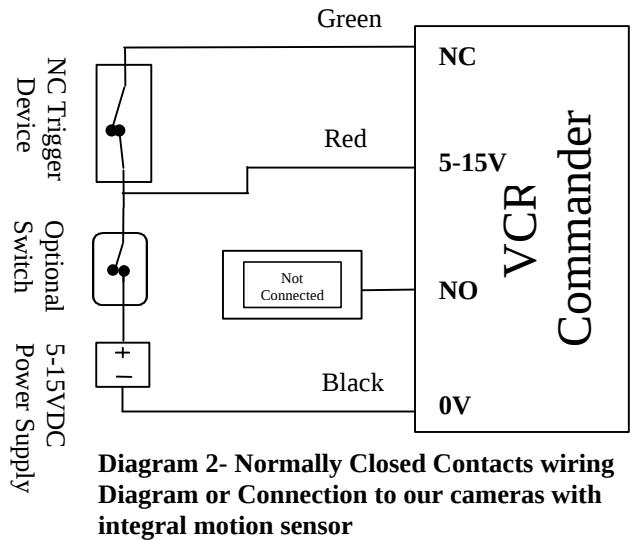
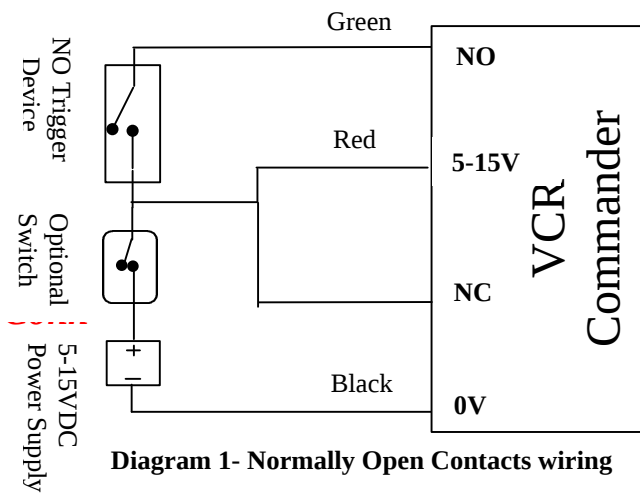
The VCR Commander is designed to turn an ordinary VCR into an event recorder. The VCR Commander sends IR signals (same as your VCR remote controller) to control your ordinary VCR in response to a dry contact input signal. It contains a library of IR codes of most common VCRs. Just connect it to normally open or normally closed contacts of virtually any detector device such as a passive IR motion detector, a door and window sensor or any security system. When triggered an alarm LED on the controller starts flashing. It then sends an Infrared record command to the VCR and the VCR starts recording the event. About 30 seconds after the trigger is removed it sends a stop command to the VCR and the VCR stops recording.

## Wiring Instruction

- ❖ Unscrew the back cover of the VCR Commander.
- ❖ Locate the Screw Terminal inside the VCR Commander.
- ❖ Connect the terminal marked 5-15V to supply voltage of 5VDC upto 15VDC (Red wire of the optional camera).
- ❖ Connect the terminal marked 0V to GND of your power supply. (Black Wire of the optional camera).

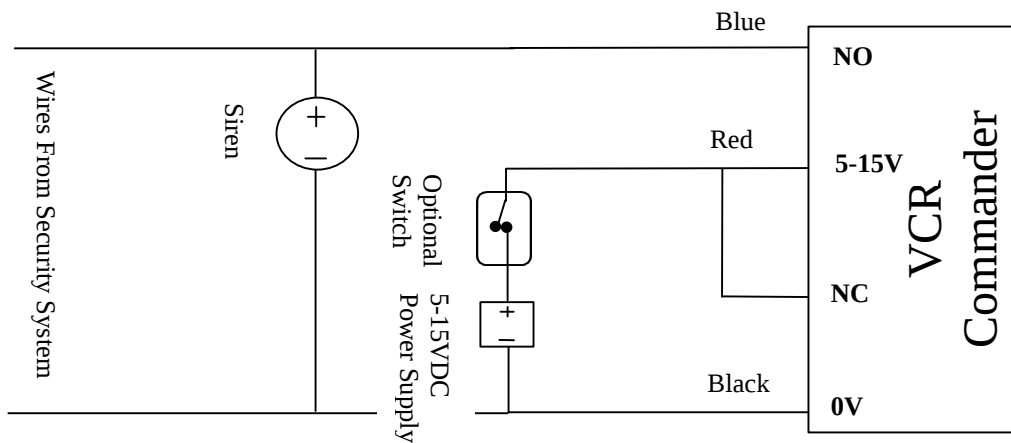
### ***Connection to Normally Open (NO) or Normally Closed (NC) Contacts:***

- ❖ If your triggering device such as motion detector, security system etc has Normally Open (NO) dry contacts use wiring diagram 1. If it has Normally Closed (NC) dry contacts or if you are using one of our cameras with integrated motion sensor use wiring diagram 2.



### **Connection to Security System Siren:**

- ❖ You can also connect the VCR Commander to the same wires that are connected to the siren of most security systems so that when the siren sounds, the VCR Commander activates your VCR. For connection to sirens use wiring diagram 3.



## Installation Location

The VCR Commander controls your VCR by sending Infra red (IR) signals similar to a VCR remote controller unit. IR signal from the VCR Commander is very strong and can reach your VCR from a distance up to 10 meters away. It is preferable that the VCR Commander is installed somewhere facing the VCR, but since the signal is very strong it may even work if it is behind the VCR and the signal bounces back to the VCR from walls or other objects in front of the VCR.

## Factory Setup

The VCR Commander is setup in the factory to work with all supported VCR brands without the need to change the dip switch by the user. With the factory setup of the dip switch the VCR Commander will send multiple IR signals to activate your VCR. Depending on the brand of the VCR, it may take up to 30 seconds to activate the VCR into recording. However most common brands of VCR will activate between 0.5 to 5 seconds. If the situation you want to use the VCR Commander requires a faster response after receiving a trigger, you need to set the dip switch to the specific code number for your brand of VCR as follows:

## Choosing the correct code for your VCR

**NOTE: You only need to change the dip switch if it takes too long for the VCR Commander to activate your VCR.**

- a) Find the brand of your VCR from Table 1 (refer to following section for help on how to read VCR Codes from table 1) .
- b) Note down the code or codes that correspond to your VCR brand. Notice that some brands have more than one code.
- c) Refer to table 2 showing the dip switch settings for different code numbers.
- d) Find the dip switch setting based on the code number for your VCR.
- e) Set the dip switch in the VCR Commander.
- f) Turn on your VCR and make it ready for recording.
- g) Ensure that you have wired the triggering device and also connected the power supply to the VCR commander (see wiring diagrams).
- h) The RED light on the VCR Commander should now be on.
- i) Make the triggering device to trigger the VCR Commander. For example if the triggering device is a motion detector you can make a movement in front of it.

- j) If your VCR is now recording then the setting is correct for your VCR. Otherwise if your VCR can take other codes, try those codes until you find the code that works.

## How to Read VCR Codes

Every VCR brand is given a code or a number of codes in Table 1. These code numbers correspond to the settings required on the dip switch for that brand of VCR. Every tab on the switch has a number in the range of 1 to 8. If the tab is to be taken to the ON position the number of tab will be part of the code, otherwise the number will not be in the code. For example the switch setting below is coded as 1245 since only tabs 1 and 2 and 4 and 5 are at the ON position.



## VCR Brand and Codes

| VCR Brand  | Codes                                                 |
|------------|-------------------------------------------------------|
| Adelsound  | 1246                                                  |
| Admiral    | 2456                                                  |
| Adyson     | 12                                                    |
| Adventura  | 1345                                                  |
| Aiko       | 1456                                                  |
| Aiwa       | 57, 12367, 2456, 1345, 13, 1256, 256, 3               |
| AKAI       | 2356, 2456, 12347, 26, 13, 126, 36, 136, 236, 35      |
| Akiba      | 12                                                    |
| Akura      | 12, 13                                                |
| Alba       | 1456, 12, 1257, 357, 1256, 157, 2356, 1347, 36, 12367 |
| Alloregan  | 12347                                                 |
| Allstar    | 1, 1357                                               |
| Ambassador | 2356                                                  |

|               |                            |
|---------------|----------------------------|
| American High | 1356                       |
| Amstrad       | 1345, 12357, 457, 1456, 12 |
| Anitech       | 12, 1357                   |
| Ansonic       | 1246                       |
| Aristona      | 1                          |
| ASA           | 1, 3                       |
| Asha          | 25                         |
| Asuka         | 12, 3, 1, 1345, 2345       |
| Audiosonic    | 1456                       |
| Audioton      | 2356                       |
| Audiovox      | 3                          |
| AWA           | 13457, 3, 1456, 14         |
| Beaumark      | 25                         |
| Baird         | 126, 13, 1345, 1456, 125   |
| Basic Line    | 1456, 1256, 2356, 12       |
| Bell & Howell | 125                        |

|               |                                                           |
|---------------|-----------------------------------------------------------|
| Bestar        | 1456, 2356                                                |
| Black Panther | 1456                                                      |
| Blaupunkt     | 1236, 34, 1, 1235, 456, 267, 1457, 12468                  |
| Blue Sky      | 3, 1256, 12367, 12, 157                                   |
| Bondstec      | 12, 2356                                                  |
| Brandt        | 13, 167, 367, 1367                                        |
| Brinkman      | 1256, 12367                                               |
| Bush          | 12, 36, 1256, 256, 1456, 1257, 357, 346, 1345, 12367, 157 |
| Carena        | 1256, 1                                                   |
| Calix         | 3                                                         |
| Canon         | 1356, 2467                                                |
| Capehart      | 2356                                                      |
| Carrefour     | 1245                                                      |
| Carver        | 1                                                         |
| Casio         | 1345                                                      |
| Cathay        | 1456                                                      |
| Catron        | 2356                                                      |
| CGE           | 13, 46, 1345                                              |
| Cimline       | 12, 1256                                                  |
| Cineral       | 1456                                                      |
| Citizen       | 3, 1456                                                   |
| Clatronic     | 12, 2356                                                  |
| Colt          | 12                                                        |
| Combitech     | 256, 157                                                  |
| Condor        | 2356, 1456                                                |
| Crown         | 1456, 12, 2356, 1357                                      |
| CGM           | 125                                                       |
| Craig         | 3, 146, 25, 12                                            |

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|--------------|------------------------------------------|
| Cybernex     | 25                                       |
| Daewoo       | 1245, 2356, 1456, 1256, 157              |
| Dansai       | 12, 1456                                 |
| Daytron      | 1456, 2356                               |
| Decca        | 1, 1345, 13, 2, 2346, 12367              |
| De Graaf     | 23, 123457, 1, 125, 2456                 |
| Deitron      | 1456                                     |
| Denco        | 12                                       |
| Denon        | 23                                       |
| Diamant      | 3                                        |
| Domland      | 1256                                     |
| Dual         | 13, 1, 1456, 1345                        |
| Dumont       | 1345, 1, 125, 23                         |
| Dynatech     | 1345                                     |
| Elbe         | 2345, 1456                               |
| Elcotech     | 12                                       |
| Electrohome  | 3                                        |
| Electroponic | 3                                        |
| Elin         | 12347                                    |
| Elsay        | 12                                       |
| Elta         | 12, 1456                                 |
| Emerex       | 145                                      |
| Emerson      | 3, 1345, 12345, 12, 1245, 14, 1256, 1456 |
| ESC          | 1456, 12347, 2356                        |
| Etzuko       | 12                                       |
| Europhon     | 2356                                     |
| Fenner       | 2356                                     |
| Ferguson     | 13, 367, 1367, 26, 1345, 1456            |

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Fidelity        | 1345, 12, 12357, 12347                                          |
| Finlandia       | 125, 1, 23, 123457, 1345, 2456                                  |
| Finlux          | 1, 1345, 125, 23                                                |
| FirstLine       | 12, 1256, 3, 1245, 34, 12367, 14, 23, 156, 346, 1456            |
| Fisher          | 146, 125, 345, 135, 35, 2345, 2356                              |
| Flint           | 1256                                                            |
| Frontech        | 2356, 1357                                                      |
| Fijutsu         | 1345                                                            |
| Fuji            | 45, 1356                                                        |
| Funai           | 1345                                                            |
| Galaxy          | 1345                                                            |
| Garrard         | 1345                                                            |
| GBC             | 12, 2356                                                        |
| GE              | 1356, 2456, 25                                                  |
| GEC             | 1                                                               |
| Geloso          | 12                                                              |
| General         | 246, 2356                                                       |
| General Technic | 12367                                                           |
| Genexxa         | 125                                                             |
| Goldhand        | 12                                                              |
| Goldstar        | 3, 1345, 2345                                                   |
| Goldmans        | 123                                                             |
| Goodmans        | 1345, 12, 3, 1, 1256, 12347, 1456, 3457, 2356, 3456, 12367, 346 |
| Go Video        | 25                                                              |
| Gradiente       | 1345, 2                                                         |
| Graetz          | 13, 125, 12347, 357                                             |

|                   |                                                                               |
|-------------------|-------------------------------------------------------------------------------|
| Granada           | 1236, 1, 125, 35, 3, 1345, 456, 2456, 2478, 1457, 12347, 34, 23, 1345         |
| Grandin           | 12, 3, 2356, 1345, 1456, 1256                                                 |
| Grundig           | 1236, 1, 456, 2367, 467, 34, 1457, 367, 12367                                 |
| Hanseatic         | 1, 3, 1256, 1456                                                              |
| Hantor            | 2356                                                                          |
| Harley Davidson   | 1345                                                                          |
| Harman/<br>Kardon | 1, 2345                                                                       |
| Harwood           | 12                                                                            |
| HCM               | 12, 1357                                                                      |
| Hanimex           | 157                                                                           |
| Headquarter       | 125                                                                           |
| Hinari            | 12, 12345, 1246, 346, 1346, 1256, 256, 13, 123456, 1357, 156, 3456, 1456, 157 |
| HI-Q              | 146                                                                           |
| Hisawa            | 1256, 157                                                                     |
| Hitachi           | 1345, 13, 12, 23, 1, 123457, 2478, 12347, 1246, 125                           |
| Hornyphone        | 1                                                                             |
| Hypson            | 12, 1256, 1456, 157                                                           |
| Impego            | 2356                                                                          |
| Imperial          | 46, 25, 1345, 12347                                                           |
| Ingersol          | 1256, 1246, 12347                                                             |
| Inno Hit          | 2356, 12347, 1456, 1357, 12                                                   |
| Interbuy          | 3, 12                                                                         |
| Interfunk         | 1, 125                                                                        |
| Internal          | 1456                                                                          |

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|---------------|----------------------------------------|
| International | 1456                                   |
| Intervision   | 1345, 3, 1256, 1456, 12367             |
| Irradio       | 12, 3, 1                               |
| ITT-Nokia     | 126, 13, 35, 125, 12347, 2456          |
| ITV           | 1456, 3, 2356                          |
| JVC           | 13, 2346, 6, 24, 12346, 56, 2, 167     |
| Jensen        | 13                                     |
| Kaisui        | 12                                     |
| Karcher       | 1456                                   |
| KEC           | 3, 1456                                |
| Kendo         | 126, 36, 26, 1256, 12, 12367, 3        |
| Kenwood       | 13, 2346, 2345                         |
| Kimari        | 135, 146                               |
| KLH           | 12                                     |
| Kneissel      | 256, 1256, 3, 12367, 157               |
| Kodak         | 1356, 3                                |
| Korpel        | 12                                     |
| Kuba          | 135, 146                               |
| Kuwa          | 34                                     |
| Kyoto         | 12                                     |
| Leyco         | 12, 156                                |
| LG            | 3, 1345, 2345, 1456                    |
| Lifetec       | 1256, 12367                            |
| Lloyd's       | 1345                                   |
| Loewe Opta    | 1236, 1, 3, 456, 1457, 23, 1246, 2468  |
| Logik         | 1246, 156, 1346, 12, 126, 1256, 12347, |
| Luma          | 156                                    |

|                |                                                                         |
|----------------|-------------------------------------------------------------------------|
| Lumatron       | 1456                                                                    |
| Luxor          | 125, 126, 35, 12, 135, 14, 3457, 146, 2456                              |
| LXI            | 3                                                                       |
| M Electronic   | 3, 1345                                                                 |
| Magnasonic     | 125                                                                     |
| Magnavox       | 1, 1345, 1356                                                           |
| Magnin         | 25                                                                      |
| Manesth        | 12, 1245, 1, 1256                                                       |
| Marantz        | 1236, 1246, 123, 1, 1256, 1356, 2345, 1457, 3457, 23457                 |
| Mark           | 1456, 2356                                                              |
| Marquant       | 1357                                                                    |
| Marta          | 3                                                                       |
| Matsui         | 1246, 156, 1256, 3, 256, 1345, 157, 123456, 156, 12347, 457, 12367, 157 |
| Matsushita     | 1356                                                                    |
| Mediator       | 1                                                                       |
| Medion         | 1256, 12367                                                             |
| MEI            | 1356                                                                    |
| Melectronic    | 1345, 3, 2345                                                           |
| Memorex        | 3, 125, 1345, 35, 135, 146, 25, 1356, 2456                              |
| Memphis        | 12                                                                      |
| Metz           | 1, 1236, 456, 2367, 34, 267, , 1457, 2468, 12468                        |
| MGA            | 25, 14                                                                  |
| MGN Technology | 25                                                                      |
| Micormay       | 2367                                                                    |
| Micromaxx      | 1256                                                                    |

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|------------|-----------------------------------------------|
| Migros     | 1345                                          |
| Minerva    | 1236, 456                                     |
| Minolta    | 23                                            |
| Mitsubishi | 1, 12, 14, 24, 124, 2456, 2346, 13457, 67     |
| Motorola   | 1356, 2456                                    |
| MTC        | 25, 1345                                      |
| Multitech  | 12, 1345, 2356, 125, 1357                     |
| Murphy     | 1345                                          |
| NAD        | 1234, 15, 125                                 |
| National   | 34, 2468                                      |
| NEC        | 13, 2345, 320, 125, 2346, 3                   |
| Neckermann | 13, 1236, 1, 12345, 456, 123456, 1457         |
| Nesco      | 12, 1345, 157                                 |
| Neufunk    | 1256                                          |
| Nikkai     | 2356, 12, 1456                                |
| Nikko      | 3                                             |
| Nikon      | 1235                                          |
| Noblex     | 25                                            |
| Nokia      | 126, 13, 35, 1,125, 36, 1456, 12347, 2456, 23 |
| Nobliko    | 1236, 456                                     |
| Nordmende  | 13, 2346, 6, 12346, 56, 1356, 2356, 367, 1367 |
| Oceanic    | 1345, 13, 126, 1, 35, 2456, 125               |
| Okano      | 36, 1256, 12, 12367, 1357, 1456               |
| Olympus    | 1356                                          |
| Optimus    | 3, 2456, 125, 15, 25,                         |
| Optonica   | 123                                           |

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|---------------|-----------------------------------------------------------------------------|
| Orion         | 12345, 156, 256, 1256, 356, 1346, 1246, 123456, 3456, 12367, 1257, 357, 157 |
| Orson         | 1345                                                                        |
| Osaki         | 3, 1345, 12                                                                 |
| Osume         | 346                                                                         |
| Otake         | 1257, 357                                                                   |
| Otto Versand  | 1                                                                           |
| Palladium     | 126, 236, 12, 36, 3, 13, 1256, 1457, 1246, 12347                            |
| Palsonic      | 12, 1345                                                                    |
| Panasonic     | 34, 134, 1356, 267, 2468, 12468                                             |
| Pathe Cinema  | 1246, 14                                                                    |
| Pathe Marconi | 13                                                                          |
| Penney        | 3, 25, 23, 2345, 345, 1356                                                  |
| Pentax        | 23                                                                          |
| Perdio        | 1345, 1256                                                                  |
| Philco        | 1345, 1, 123, 1356, 2345, 12                                                |
| Philips       | 1, 234, 123, 456, 1356, 1457, 23457                                         |
| Phonola       | 1                                                                           |
| Pilot         | 3                                                                           |
| Pioneer       | 1, 24, 234, 1234, 5, 15, 2346, 23                                           |
| Portland      | 2356, 1456                                                                  |
| Prinz         | 1345, 156                                                                   |
| Profex        | 1357                                                                        |
| Profitronic   | 25, 1, 12347                                                                |
| Proline       | 1345, 346, 367, 1367                                                        |
| Proscio       | 1456                                                                        |

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|------------|--------------------------------------------------|
| Prosonic   | 1256, 1456, 1345                                 |
| Protec     | 12, 1                                            |
| Provision  | 1456                                             |
| Pye        | 24, 1                                            |
| Quarter    | 125                                              |
| Quartz     | 125                                              |
| Quelle     | 1236, 1, 12345, 235, 456, 1457, 123456           |
| Radialva   | 3, 12, 1, 2456                                   |
| Radiola    | 1                                                |
| RadioShack | 1345                                             |
| Radix      | 3                                                |
| Randex     | 3                                                |
| Rank       | 13                                               |
| RCA        | 16, 2456, 25, 23, 35, 1356                       |
| Realistic  | 3, 146, 1345, 125, 25, 2456, 123, 1356           |
| Rex        | 13, 6                                            |
| RFT        | 2356, 12                                         |
| Ricoh      | 1235                                             |
| Roadstar   | 12347, 12, 3, 1456                               |
| Royal      | 1357, 12                                         |
| SABA       | 13, 2346, 6, 12346, 167, 367, 1367, 3457, 1456   |
| Saisho     | 12345, 1246, 156, 1256, 1346, 123456, 157, 12367 |
| Salora     | 125, 14, 126, 35                                 |
| Solaria    | 125                                              |
| Samsung    | 4, 25, 1245, 12347                               |
| Samurai    | 2356                                             |
| Sangyong   | 12                                               |

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|---------------|------------------------------------------|
| Sansui        | 24, 13, 126, 1345, 2346, 12, 1357, 12367 |
| Sanwa         | 1246                                     |
| Sanyo         | 125, 35, 135, 146, 25, , 2456, 2346      |
| Saville       | 1456, 12347, 157                         |
| SBR           | 1                                        |
| Scan Sonic    | 12347                                    |
| Schaub Lorenz | 13, 125, 1345, 126, 36                   |
| Schneider     | 1, 12, 25, 1345, 3, 1456, 12347          |
| Seaway        | 1456                                     |
| Sears         | 345, 3, 146, 1345, 23, 125, 1356         |
| SEG           | 12, 25, 12347, 1357, 1456, 13457         |
| Sei-sinudyne  | 1246, 1                                  |
| Seleco        | 36, 13, 3, 2, 2356                       |
| Semivox       | 1245, 1256                               |
| Semp          | 1245,                                    |
| Senta         | 46                                       |
| Sentra        | 12, 2356, 346                            |
| Sentron       | 12                                       |
| Sharp         | 123, 2456, 4, 3457, 3                    |
| Shinton       | 236, 12, 125                             |
| Shivaki       | 3                                        |
| Shogun        | 25                                       |
| Shorai        | 156, 1246                                |
| Siemens       | 1236, 125, 3, 1, 456, 1457, 23457, 345   |
| Sierra        | 1                                        |
| Silva         | 3                                        |

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|------------|------------------------------------------------------|
| Silver     | 1456                                                 |
| Singer     | 12                                                   |
| Sinudyne   | 1, 1246                                              |
| Solavox    | 2356                                                 |
| Sonitron   | 135, 146                                             |
| Sonneclair | 12                                                   |
| Sonoko     | 1456                                                 |
| Sonolor    | 2456                                                 |
| Sontec     | 3                                                    |
| Sony       | 235, 1235, 45, 145, 245, 126, 1345, 1356, 2457, 1467 |
| Soundwave  | 3, 1256                                              |
| Ssangyong  | 12                                                   |
| Standard   | 1456                                                 |
| Starlite   | 3, 125                                               |
| Stern      | 1456                                                 |
| STS        | 23                                                   |
| Sunkai     | 1256, 12367, 1456                                    |
| Sunstar    | 1345                                                 |
| Suntronic  | 1345                                                 |
| Sunwood    | 12                                                   |
| Supra      | 3, 12347                                             |
| Sylvania   | 1, 1345, 14, 1356                                    |
| Symphonic  | 1345, 12                                             |
| Taisho     | 1246, 1256, 156                                      |
| Tandberg   | 156, 1456                                            |
| Tandy      | 1345, 125, 13                                        |
| Tashiko    | 1345, 1, 3, 2456, 12347                              |
| Tatung     | 1, 1345, 13, 26, 1256, 2456, 14, 12367, 157          |

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|-------------|-------------------------------------|
| Teac        | 13, 1345, 125, 1456, 3, 1, 57       |
| TEC         | 2356, 1456, 12                      |
| Technics    | 1356                                |
| TechniSat   | 12367, 1256                         |
| Technika    | 3, 1345, 1356                       |
| Teleavia    | 13                                  |
| Telefunken  | 13, 367, 1367, 1456                 |
| Teletech    | 1357, 12, 1456, 1345                |
| Telemeister | 1345                                |
| Tempest     | 2356                                |
| Tenosal     | 12                                  |
| Tensai      | 1345, 3, 12, 1357, 1246             |
| Tevion      | 12367, 1256                         |
| Thomas      | 1345                                |
| Thomson     | 13, 2346, 56, 12367, 367, 167, 1367 |
| Thorn       | 13, 125, 3                          |
| TMK         | 12345, 25                           |
| Tokai       | 12, 3, 13, 125                      |
| Tokiwa      | 12                                  |
| Topline     | 12367                               |
| Toshiba     | 13, 1245, 1, 14                     |
| Totevision  | 3, 25                               |
| Towara      | 1357, 12                            |
| Towika      | 1345                                |
| Trakton     | 2356                                |
| Triumph     | 123456                              |
| TVA         | 2356                                |
| Uher        | 13, 25, 3, 12347                    |
| Ultravox    | 1456                                |

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|-------------------|--------------------------------------------------------------|
| Unitech           | 25, 12347                                                    |
| United Quick Star | 1456                                                         |
| Universum         | 1345, 1, 3, 126, 1256,<br>12357, 12347, 12367, 1457,<br>1357 |
| Vector            | 2345, 1245, 2, 2346                                          |
| Vector Research   | 2345                                                         |
| Victor            | 2346, 56, 12356                                              |
| Video             | 2345                                                         |
| Videosonic        | 25                                                           |
| Wards             | 2456, 146, 1, 25, 12, 123,<br>1356                           |
| Watson            | 1, 157                                                       |

|                    |                    |
|--------------------|--------------------|
| Weltblick          | 3                  |
| White Westinghouse | 3, 1456            |
| XR-1000            | 1345, 12, 1356     |
| Yamaha             | 2345               |
| Yamishi            | 12, 1456           |
| Yokan              | 12                 |
| Yoko               | 3, 12, 2356, 12347 |
| Zenith             | 1345, 45, 1235     |
| Zenon              | 156                |
| ZX                 | 1256               |