

SanDisk® V-Mate™

Video Memory Card Recorder

User Guide

You may register your product at
www.sandisk.com/registration

and receive e-mail alerts about new firmware for
your V-Mate Video Memory Card Recorder!

Failure to register your product will NOT diminish the
rights you have under the product warranty.



English

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Congratulations

Congratulations on your purchase of the V-Mate Video Memory Card Recorder. Now you can easily record movies and TV programs on flash memory cards and play them back in a compatible playback device such as mobile phones, handheld game consoles, notebook PCs and more. Whenever you want, wherever you are! This user guide will instruct you on how to install and use your V-Mate.

* For home and personal use:

This product is intended to be used for recording and playback for your home and personal enjoyment. Copying and commercial use of copyrighted material without permission of the copyright owner may be prohibited by law. Use of your V-Mate in compliance with all copyright and applicable intellectual property laws remains the responsibility of the user of the product.

Package Contents

- V-Mate Video Memory Card Recorder
- Remote Control with Battery
- Audio/Video Cables (2x)
- Infrared Emitter Cable
- USB Cable
- Power Supply
- User Guide

Product Specifications

Video:

- Codecs: MPEG-4 SP, H.263
- Formats: MP4, 3GP, 3G2
- Resolution: Up to 640 x 480
- Frames per second: Up to 30

Compatible Card Formats:

- SD, SDHC, miniSD, miniSDHC, microSD, microSDHC
- RS-MMC (Dual Voltage)
- MMCplus, MMCmobile
- Memory Stick, Memory Stick PRO, Memory Stick Duo, Memory Stick PRO Duo

Connectors:

- 3.5 mm input for Composite Video, Audio Left & Right
- 3.5 mm output for Composite Video, Audio Left & Right
- USB mini B
- IR (infrared) emitter (connection to set top box or VCR)
- Power

System Requirements

For recording and playback:

- TV with RCA composite video (NTSC or PAL) and audio connection*
- Video source with RCA composite video and audio output connection (e.g. cable/satellite box, camcorder, VCR or DVD player)*

For firmware upgrading/connecting to a PC:

- Windows: Pentium-class PC with USB support and Windows 2000 or XP.
- Macintosh: Computer with USB support and Mac OS 10.1.2+

SAFETY INSTRUCTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WEEE Disposal Instructions

Do not dispose of this device with unsorted household waste. Improper disposal may be harmful to the environment and human health. Please refer to your local waste authority for information on return and collection systems in your area.

Read these Instructions.

- Keep these Instructions.
- Heed all Warnings.
- Follow all instructions.
- Clean only with a damp cloth (unplug the power adapter before cleaning).
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding - type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not use near water (e.g. sink, bathtub, swimming pool, etc.).

Warning:

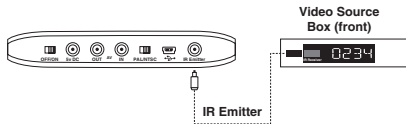
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Note:

Please consult the rating label at the bottom of the SanDisk V-Mate for power input and other safety information.

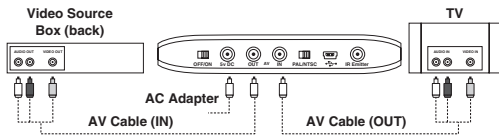
Connecting V-Mate

1. Connect one audio/video cable to the composite video output and audio left/right output of an analog video source (e.g. cable/satellite box, camcorder, VCR or DVD player). The yellow plug should connect to Video Out, the red plug should connect to Audio Out (R), and the white plug should connect to Audio Out (L). Connect the 3.5 mm connector on the other side of the cable to the AV In connection on the back of the V-Mate.
2. If you are using a cable/satellite/terrestrial receiver box or VCR, connect the 3.5 mm connector on the IR Emitter cable to the IR Emitter connector on the back of the V-Mate. The IR emitter will automatically power on/off and select channels at cable/satellite/terrestrial receiver box or VCR during a scheduled recording. Remove the protective layer from IR emitter and stick the IR emitter next to the remote sensor of the cable/satellite/terrestrial receiver box or VCR. When attaching the IR emitter to the video source box, make sure to cover only a part of the IR Receiver window so that it will not block the IR signal coming from the remote control. To find the remote sensor on the video source box, consult its manual for more information.



3. Connect the 2nd audio/video cable to the TV. On the TV, the yellow plug should connect to Video In, the red plug should connect to Audio In (R), and the white plug should connect to Audio In (L). Connect the 3.5 mm connector on the other side of the cable to the AV Out connection on the back of the V-Mate.
4. Plug the Power Supply into the back of the V-Mate and plug the power supply into a power outlet.

5. Check the position of the NTSC/PAL switch on the back of the V-Mate. The selected position should match with the type of TV. Please consult the manual/specifications of the TV for details.
6. Move the power switch on the back of the V-Mate into the ON position.
7. Pull the plastic strip out of the remote control to activate the battery.
8. Press the power button on the remote and the V-Mate will start up (the blue slot LEDs blink and the green power LED stays on).
9. Turn on the TV and the video source box and change the input source on the TV. Depending on the TV, the input source may be called TV/Video, Input, or Source (consult the TV manual for more information). When the correct source is selected, you will see a message to insert a memory card. When the V-Mate is turned off (standby) from the remote control or on the back of the unit, the video signal from the video source box will be displayed on the TV screen. The V-Mate is now correctly connected



Setting the V-Mate

1. Make sure a compatible memory card is inserted. Only insert one memory card at a time.
2. In the next screen set the date and time (accurate time and date settings are required for scheduled recordings). When the power supply is disconnected, the clock in the V-Mate will reset. When the V-Mate is turned on again, a message will come up requesting to set the clock. After the time is set, the main menu will appear.

3. In order to record a video recording file that is compatible with your playback device, you need to set the appropriate recording settings. You can do this manually or by selecting your playback device from a list. To select from a list, select SETTINGS and then RECORDING FORMAT. Select the appropriate category for your playback device, then its brand and finally its model number. Settings can be manually adjusted by selecting SETTINGS → RECORDING FORMAT → MANUAL SETTINGS. The following settings can be manually adjusted:
 - Quality (the higher the quality, the sharper the video)
 - Format (different playback devices often work with different video formats)
 - Resolution (the higher the resolution, the bigger the video width and height)
 - Frame rate (the higher the frame rate, the smoother the video runs)
4. In order to schedule recordings and to let the V-Mate record programs while you are not present, the Infrared Emitter needs to use an infrared code that is compatible with the cable/satellite/terrestrial receiver box or VCR.
 - A. Go to SETTINGS → IR EMITTER.
 - B. Select the Device Type of the video source box that is connected to the V-Mate.
 - C. Input the code associated with the device type and the device brand from the table in the back of this user guide. Check www.sandisk.com for the most recent list of infrared codes for video source boxes.
 - D. Run the test to make sure V-Mate communicates properly with your video source box.
5. To adjust the Date and time, go to SETTINGS → Date & Time
6. To change the language of the user interface, go to SETTINGS → Language

Recording with the V-Mate*

To record a video file, go to RECORD NOW in the main menu or press the record button on the remote control. The RECORD NOW screen will appear and shows a preview window. If the video source box is turned on, the preview window will show the video stream that comes from the source box. Press the record or OK button and the timer will start running, indicating that the video is being recorded. The LED indicator next to the slot in which a card is inserted is blinking indicating that data is being written to the card. **DO NOT REMOVE THE CARD WHEN THE INDICATOR IS BLINKING AS IT MAY DAMAGE THE CARD AND CORRUPT THE VIDEO FILE.** To stop a recording, press the Stop button.

During recording in 640x480 resolution, there will be no preview window (in the other resolutions there is a preview window during recording). Instead the screen is black with "REC" displayed in the top left corner to indicate the V-Mate is recording. You can hear the audio. To see the video signal while recording in VGA resolution, you can setup a direct connection between the video source box (2nd AV output is required) and the TV (2nd AV input is required). This requires an extra AV cable (not included).

To schedule a recording, go to SCHEDULE RECORDING in the main menu and select a time slot (you can program a maximum of 30 time slots). With the cursor keys and the OK button set the date, channel, start time, stop time and the frequency (ONCE – for one time recording, DAY - for daily recording, WEEK – for weekly recording). If you program multiple time slots, make sure there is no overlap in the recording time. To delete a time slot, select the time slot and press the Delete button on the remote control.

After the recording has stopped and the indicator has stopped blinking, you may remove the card from the V-Mate and insert it in your playback device. Consult the manual of your playback device on how to insert a card and playback video files from the card.

Unauthorized recording of copyrighted materials may infringe on the rights of the copyright owners and violate copyright laws.

Playing video with the V-Mate

In addition to recording video files to playback on handheld devices, you can also play video on V-Mate that is recorded by the V-Mate itself. In the main menu select PLAY VIDEO and open a folder or select a video file. Press the Play button on the remote control to start the video file. To delete a video file, select it and press the Delete button on the remote control. To see more details about the video file properties, select it and press the Info button.

Playing recorded video on a PC

For playback on a PC, RealNetworks™ RealPlayer™ 10 or higher or Apple® QuickTime™ 6 or higher with the latest software updates is compatible with MPEG-4 ISO (.MP4) files.

Troubleshooting

For Frequently Asked Questions and other V-Mate support information, please go to our website at www.sandisk.com/retail/support.asp

For assistance by phone please call toll free **866-SANDISK (866-726-3475)** Monday through Friday, 6am till 6pm Pacific Standard Time.

Worldwide BrandSetup Code List

Setup Code For Cable Converters (including Cable/DVR combos)

ABC	0003, 0008, 0237
Americast	0899
Austar	0276
Bell South	0899
Bestlink	0303
Birmingham Cable Communications	0276
British Telecom	0003
Cable & Wireless	1068
Clearmaster	0883
ClearMax	0883
Coolmax	0883
Coship	1462
Daehan	0778
Daeryung	0008, 0477, 0877, 1877
Director	0476
France Telecom	0817
Galaxi	0008
GE	0237
Gehua	0476
General Instrument	0003, 0276, 0476, 0810
General Instruments	0003, 0276, 0476
GNI	1466
GoldStar	0144
Hamiln	0009, 0273
Hongtian Jiangsu	1462
Hwain	0303
Jerrold	0003, 0276, 0476, 0810

Jiuzhou	1445
Kabelvision	0003
KNC	0008
LG	0144
Macab	0817
Melita	0003
Memorex	0000
Motorola	0276, 0476, 0810, 1254, 1376
Mr Zapp	0817
MS	0303
Multitech	0883
Noos	0817
NTL	0003, 0276, 1060, 1068
Oak	0303
Ono	1068
Optus	0276, 1060
Pace	0237, 1060, 1068, 1877
Panasonic	0000, 0008, 0107
Paragon	0000
Phillips	0317, 0817, 1305
Pioneer	0144, 0533, 0877, 1877
Pulsar	0000
PVP Stereo	
Visual Matrix	0003
Quasar	0000
RadioShack	0303, 0883
Regal	0273, 0279
Runco	0000
Sagem	0817
Salora	0000
Samsung	0000, 0144, 0840, 1060

Scientific Atlanta	0008, 0237, 0477, 0877, 1068, 1877
Skyworth	1464
Sony	1006
Starcom	0003
Supercable	0276
Supermax	0883
Taihan	0778
TCL	1445
Telewest	1068
Time Warner cable	1877
TongKook	0840
Torx	0003
Toshiba	0000
Trans PX	0276, 0303
Tristar	0883
TS	0003, 0303
United Cable	0003
US Electronics	0276
V2	0883
Viewmaster	0883
Vision	0883
Visiopass	0817
Vortex View	0883
Zenith	0000, 0008, 0525, 0899

Setup Code For Satellite Receivers (including Satellite/DVR combos)

@sat	1300
ABsat	0123
Regal	0642
ADB	0710
AGS	0710
Akai	0200
Allsat	0200, 1017, 1043

AlphaStar	0772
Ampere	0132
Amstrad	0132, 0345, 0795, 0847, 0863, 0882, 1175
AntSat	1017, 1083
Arcon	1043, 1075
Arnion	1300
Asat	0200
AssCom	0853
Astacom	0710
Aston	0142
Astro	0173, 1099
Atsat	1300
Aurora	0642, 0879
Austar	0497, 0642, 0863, 0879
Axiel	0710
Axis	1111
Bentley Walker	1017
Blaupunkt	0173
Boca	0132
Boston	0710
Brand Unknown	0132, 0299
British Sky Broadcasting	0847, 1175, 1847
BskyB	0847, 1175
BT	0710
Canal Digital	0853
Canal Satellite	0853
Canal+	0853
CanalSatellite	0853
Century	0856
Chaparral	0216
Cherokee	0123, 0710
Chess	1085
CityCom	0299, 1075, 1176

Colombia	0132
Columbia	0132
Comag	0132
Conrad	0132
Crossdigital	1109
Cryptovision	0795
Cyrus	0200
D-box	0723, 0873
Daewoo	1111
Delfa	0863
Deltasat	1075
Digenius	0299
DigiQuest	0863
Digiturk	1076
DiracTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1392, 1414, 1442, 1639, 1640, 1749, 1856
Discovery	0710
Diseqc	0710
Dish Network System	0775, 1005, 1505, 1775
Dishpro	0775, 1005, 1505, 1775
DMT	1075
DNT	0200
Dream Multimedia	1237
DREAM multimedia.TV	1237
DStv	0642, 0879
DX Antenna	1530

Echostar	0167, 0610, 0775, 0853, 0871, 1005, 1086, 1200, 1505, 1775
Einhell	0132
Elta	0200
Emme Esse	0871
Engel	1017
Eurieult	0882
Europa	0863
Europhon	0132, 0299
Eurosky	0132, 0299
Expressvu	0775, 1775
Force	1101
Force NO AS	1101
Fortec Star	1017, 1083
Foxtel	0497, 0720, 0879, 1176
Fracarro	0871
Freesat	0882
FTEmaximal	0863
Fuba	0173, 0299
Galaxis	0853, 0863, 0879, 1101, 1111
Garnet	1075
GE	0566
General Instrument	0869
General Instruments	0869
GF	1043
GF Star	1043
GOD Digital	0200
GOI	0775, 1775
Gold Box	0853
Goldbox	0853
Goldvision	1017
Gradiente	0099, 0856, 0887

RadioShack	1904
RCA	1917, 1922
Samsung	1959
Sansui	1904, 1911
Schneider	1904
Sears	1904
Sharp	1917
Sony	1904
Symphonic	1904
Teac	1904
Thomas	1904
Zenith	1904, 1911

TV/DVD Combination (T)

Apex Digital	1943
Broksonic	1935
Bush	0698, 1037
Grundig	1935
Hitachi	1960
Panasonic	1941
Philips	1961
RCA	1948
Sansui	1935
Sylvania	0171
Toshiba	1935

TV/VCR/DVD Combination (T)

Sharp	1917
Toshiba	1945

Setup Code For VCRs (including DVRs)

ABS	1972
Accent	0072
Admiral	0048, 0209
Adventura	0000
Adyson	0072
Aiko	0278

Aim	0278
Aiwa	0000, 0037, 0209, 0348, 0479
Akai	0037, 0041, 0240, 0315, 0348, 0642
Akiba	0072
Akura	0072
Alba	0000, 0072, 0081, 0209, 0278, 0315, 0348
Alienware	1972
Allorgan	0240
Allstar	0081
America Action	0278
American High	0035
Amoisonic	0479
Amstrad	0000, 0072, 0278
Anam	0037, 0162, 0226, 0240, 0278
Anam National	0162, 0226, 1562
Anitech	0072
Ansonic	0000
Aristona	0081
ASA	0037, 0081
Asha	0240
Asuka	0037, 0038
Audiosonic	0278
Audiovox	0037, 0278
AVP	0000
Awa	0037, 0043, 0278, 0642
Baird	0000, 0041, 0104
Basic Line	0046, 0072, 0104, 0278

Beaumarck	0240
Beko	0104
Bell & Howell	0104
Bestar	0278
Black Diamond	0642
Black Panther	0278
Blaupunkt	0081, 0162, 0226
Blue Sky	0037, 0072, 0209, 0278, 0348, 0642
Bondstec	0072
Brand Unknown	0104, 0348
Brandt	0041, 0320
Brandt Electronic	0041
Brandt Electronique	0041
Brinkmann	0209, 0348
Broksonic	0002, 0121, 0184, 0209, 0348, 0479
Bush	0000, 0072, 0081, 0209, 0278, 0315, 0348, 0642
Calix	0037
Canon	0035
Carena	0081, 0209
Carrefour	0045
Carver	0081
Casio	0000
Cathay	0278
CCE	0072, 0278
CGE	0000, 0041
Changhong	0048, 0081
Cimline	0072
Cineral	0278
Citizen	0037, 0278
Clatronic	0000, 0072
Colt	0072
Condor	0278

Craig	0037, 0047, 0072, 0240
Crown	0037, 0072, 0278
Curtis Mathes	0035, 0041, 0060, 0162
Cybernex	0240
CyberPower	1972
Cyrus	0081
Daewoo	0045, 0046, 0104, 0209, 0278, 0642
Dansai	0072, 0278
Daytron	0278
De Graaf	0042, 0046, 0048, 0081, 0104
Decca	0000, 0041, 0067, 0081, 0209
Deitron	0278
Dell	1972
Denko	0072
Denon	0042
Diamant	0037
Diamond	0348
DirecTV	0739
Domiland	0209
Dual	0000, 0041, 0081, 0278, 0348
Dumont	0000, 0081, 0104
Durabrand	0038, 0039
Dynatech	0000
Elbe	0038, 0278
Elcatech	0072
Electrohome	0037
Electroponic	0037
Elin	0240
Elsay	0072

Elta	0072, 0278
Emerex	0032
Emerson	0000, 0002, 0035, 0037, 0043, 0045, 0072, 0121, 0184, 0209, 0240, 0278, 0479
ESC	0240, 0278
Etzuko	0072
Ferguson	0000, 0041, 0278, 0320
Fidelity	0000, 0072, 0240, 0432
Finlandia	0000, 0037, 0042, 0043, 0046, 0048, 0081, 0104, 0226
Finlux	0000, 0042, 0081, 0104
Firstline	0037, 0043, 0045, 0072, 0209, 0278, 0348
Fisher	0046, 0047, 0104
Flint	0209, 0348
Frontech	0072
Fuji	0033, 0035
Fujitsu	0000, 0045
Fujitsu General	0037
Funai	0000
Galaxi	0000
Galaxis	0278
Garrard	0000
Gateway	1972
GE	0035, 0048, 0060, 0226, 0240, 0320

GEC	0081
General	0045
General Technic	0348
Genexxa	0104
Go Video	0432
GoldHand	0072
GoldStar	0037, 0038, 0209, 0225, 0226
Goodmans	0000, 0037, 0072, 0081, 0209, 0278, 0348, 0642
GPX	0037
Gradiente	0000
Graetz	0041, 0104, 0240
Granada	0000, 0037, 0042, 0046, 0048, 0081, 0104, 0226, 0240
Grandin	0000, 0037, 0072, 0209, 0278
Grundig	0072, 0081, 0226, 0320, 0347, 0348
Haaz	0348
Hanseatic	0037, 0038, 0081, 0209
Haojie	0240
Harley Davidson	0000
Harman/Kardon	0038, 0081
Harwood	0072
HCM	0072
Headquarter	0046
Hewlett Packard	1972
HI-Q	0047

Hinari	0041, 0072, 0209, 0240, 0278	ITV	0037, 0278 0278	Logik	0072, 0209, 0240	Metz	0037, 0081, 0162, 0226, 0347, 1562	Nordmende	0041, 0067, 0320	Penney	0035, 0037, 0038, 0042, 0240
Hisawa	0209	Jensen	0041	Lux May	0072			Northgate	1972		
Hischito	0045	JMB	0209, 0348	Luxor	0043, 0046, 0047, 0048, 0104, 0315	MGA	0043, 0240	NU-TEC	0209	Pentax	0042
Hitachi	0000, 0037, 0041, 0042, 0046, 0081, 0089, 0240	Joyce	0000			MGN Technology	0240	Oceanic	0000, 0041, 0046, 0048, 0081, 0104	Perdio	0000, 0209
		JVC	0041, 0045, 0067, 0081, 1008	LXI	0037	Micormay	0348			Philco	0000, 0035, 0038, 0072, 0209, 0226, 0479
Hornlyphon	0081			M Electronic	0000, 0038	Micromaxx	0209	Okano	0072, 0209, 0278, 0315, 0348	Philips	0000, 0035, 0081, 0226, 0618, 0739
Howard Computers	1972	Kaisui	0072	Magnasonic	0278	Microsoft	1972				
HP	1972	Kambrook	0037	Magnavox	0000, 0035, 0039, 0081, 0149, 0642	Migros	0000	Olympus	0035, 0226		
Hughes		Karcher	0081, 0278			Mind	1972	Onimax	0642	Phoenix	0278
Network Syst	0042	KEC	0037, 0278	Magnin	0240	Minolta	0042	Optimus	0037, 0048, 0104, 0162, 0432, 1062	Phonola	0081
Hughes		Kendo	0072, 0209, 0278, 0315, 0348, 0642	Manesth	0045, 0072, 0081, 0209	Mitsubishi	0000, 0041, 0043, 0048, 0067, 0081, 0642	Orbit	0072	Pilot	0037
Network Systems	0042, 0739			Marantz	0035, 0038, 0081, 0209	Motorola	0035, 0048	Orion	0002, 0121, 0184, 0209, 0348, 0479	Pioneer	0042, 0067, 0081, 0162
Hypson	0000, 0037, 0072, 0209, 0278	Kenwood	0038, 0041, 0067	Mark	0000, 0278	MTC	0000, 0240			Polk Audio	0081
		KIC	0000	Marta	0037	Multitec	0037	Orson	0000	Portland	0278
Hi er	0278, 0642	Kimari	0047	Master's	0278	Multitech	0000, 0072	Osaki	0000	Prinz	0000
iBUYPOWER	1972	Kioto	0348	Matsui	0209, 0240, 0278, 0348	Murphy	0000			Profronic	0081, 0240
Imperial	0000	KLH	0072	Matsushita	0035, 0162, 0226	Myryad	0081	Osume	0000, 0037, 0072	Proline	0000, 0278, 0320, 0642
Ingersoll	0209, 0240	Kneissel	0037, 0209, 0278, 0348	Media Center PC	1972	NAD	0104	Otake	0209	Proscan	0060
Inno Hit	0072			Mediator	0081	Naiko	0642	Otto Versand	0081	Proscoc	0278
Interbuy	0037, 0072	Kodak	0035, 0037	Medion	0209, 0348, 0642	National	0226	Pacific	0000, 0348, 0642	Prosonic	0209, 0278
Interfunk	0081, 0104	Kolin	0041, 0043	MEI	0035	Nebula Electronics	0033	Packard Bell	1972	Protec	0072
Internal	0278	Kolster	0209	Melelectronic	0000, 0037, 0038	NEC	0035, 0037, 0038, 0041, 0048, 0067, 0104, 0278	Palladium	0037, 0041, 0072, 0209, 0348	Protech	0081
International	0037, 0278, 0642	Korpel	0072	Memorex	0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0348, 0479	Neckermann	0081			ProVision	0278
		Kuba	0047			Nesco	0000, 0072	Palsonic	0000, 0072, 0642	Pulsar	0039
Intervision	0000, 0209, 0278	Kuba Electronic	0047			Neufunk	0209	Panasonic	0035, 0162, 0225, 0226, 0616, 1062, 1562	Pye	0000, 0081
		Kuwa	0226			Newave	0037			Qisheng	0060
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In remembrance of Simon Wang
1977.09.12 - 2006.09.03
OEM Project Manager

