

# SanDisk® V-Mate™

## Video Memory Card Recorder

### User Guide

You may register your product at  
**[www.sandisk.com/registration](http://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:

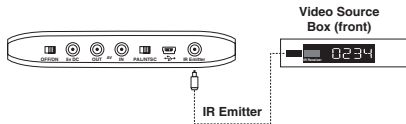
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

## Note:

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

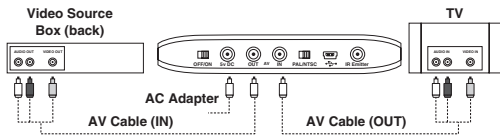
## Connecting V-Mate

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](http://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](http://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

Grundig	0173, 0345, 0847, 0853, 0879	Kathrein	0123, 0173, 0200, 0249, 1221	Nokia	0723, 0751, 0853, 0873, 1023, 1223	Proton	1535	SL	0132, 0299	Trio	1075
Hanseatic	1099	Kenwood	0853	OctalTV	1505	QNS	1402	SM Electronic	1200	UEC	0879
Hirschmann	0173, 0299, 0710, 0882, 1085, 1111	Key West	0132	OnDigital	0751	Quadral	0710	Smart	0132, 0299, 0882, 1101	UltimateTV	1392, 1640
Hisense	1535	Klap	0710	Optex	1043	Quelle	0299	Sony	0639, 0847, 0853, 1524, 1639, 1640	Uniden	0722, 0724
Hitachi	0819, 1250	Koscom	1043	Optus	0879	Radiola	0200			Unisat	0132, 0200
HNE	0132	Kreiling	0249	Orbitech	1099	RadioShack	0869	SR	0132	Universum	0173, 0299, 1087, 1099
Hornet	1300	Kreiselmeyer	0173	Origo	0497	Radix	0882	Star	0887	US Digital	1535
HSnsel & Gretel	0132	L&S Electronic	0132, 1043	OSAT	0345	RCA	0143, 0392, 0566, 0855, 1392	Star Choice	0869	USDTV	1535
HTS	0775, 1775	LaSAT	0132, 0299	Pace	0200, 0497, 0720, 0795, 0847, 0853, 0887, 1175	RFT	0200	Starlite	0200	Variosat	0173
Hughes		LG	1075, 1414	Packard Bell	1111	Roadstar	0853	Stream	1847	Ventana	0200
Network Syst	0749	Lifesat	0132, 0299, 1043	Packsat	0710	Saba	0710	Strong	0132, 0853, 0879, 1300	VH-Sat	0299
Hughes		Logix	1017, 1075	Palcom	0299	Sagem	0820, 1114, 1307	Sunkai	0123	Visiosat	0142, 0710
Network Systems	0749, 1142, 1442, 1749	Lorenzen	0132, 0299	Panasat	0615, 0879	Samsung	0853, 0863, 1109, 1276	Sunstar	0132, 0642	Viva	0856
Humax	0863, 1176, 1406	Luxor	0345	Panasonic	0247, 0701, 0847, 1527	Sat Control	1300	Supernova	0887	Voom	0869
Huth	0132, 1017, 1075	Magnavox	0722, 0724	Panda	0173	Satstation	1083	SVA	1455	Wintel	0299
Hyundai	1075	Manata	0132, 0710	Patriot	0132, 0710	Schneider	0710	Tecatel	1200	Wisi	0173, 0299
I-Lo	1535	Manhattan	1017, 1083	Paysat	0724	Schwaiger	0132, 0863, 1075, 1083, 1111	TechniSat	0200, 0863, 1099	Worldsat	0123, 0710
ID Digital	1176	Marantz	0200	Phillips	0099, 0173, 0200, 0710, 0722, 0724, 0749, 0853, 0856, 0887, 1076, 1114, 1142, 1442, 1749	SCS	0299	Technowelt	0132	XCOM	0123
Indovision	0887	Maspro	0173, 1530	Phonotrend	0863, 1017, 1200	Sedea Electronique	0132	Teched	1017	Xsat	0123, 0847
Ingelen	0882	Matsui	0173, 0710	Pioneer	0853	SEGA	1075, 1087	tekComm	1017	Xtreme	1300
Innova	0099	Maximum	1075	Planet	0871	Seleco	0871	Teleciel	1043	Yes	0887
International	0132	MediaSat	0853	Preisner	0132, 1101	Serino	0610	Telefunken	0710	Zehnder	1075
Interstar	1017	Medion	0132, 0299, 1043, 1075	Premiere	0853, 0873	Silva	0299	Telestar	1099	Zenith	0856, 1856
InVideo	0871	Mega	0200	Prima	0795	SKY	0099, 0847, 0856, 0887, 1014, 1175, 1847, 1856	Televest	0132, 1300		
IR	0173	Memorex	0724	Primacom	1111			Televisa	0887	Aiwa	1904, 1911
Irdeto Technology	0879	Metz	0173	Profile	0710			Thomson	0392, 0710, 0820, 0847, 0853, 1046	America Action	0180
ISkyB	0887	Micromaxx	0299	Proscan	0392, 0566				0820, 0847, 0853, 1046	Audiovox	0180
Italtel	0871	Microstar	1075						0132	Broksonic	1911
ITT Nokia	0723, 0873	Mitsubishi	0749						1142, 1442	Emerson	0236, 1911
Jiuzhou	1450	Morgan's	0132, 0200						0200	Funai	1904
JOK	0710	Motorola	0856, 0869						Toshiba	GE	1917, 1922
JVC	0775, 1775	Multichoice	0642, 0879						0749, 0790, 1285, 1530, 1749	Harley Davidson	1904
Kaon	1300	Myryad	0200						0820, 1307	Hitachi	1904
KaTelco	1111	Netsat	0099, 0887						0132, 0200, 0853, 1099	JVC	1923
		Neuling	0132							Lloyd's	1904
		Next Level	0869							Magnavox	1904
		Nikko	0200							Mitsubishi	1917
										Orion	1911

### TV/VCR Combination (T)

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
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In remembrance of Simon Wang  
1977.09.12 - 2006.09.03  
OEM Project Manager

