 ² 835 Douglass Street San Francisco, California 94114 Telephone: (415) 271-6469 ⁵ SETH A. SAFIER (State Bar No. 197427) LAW OFFICES OF SETH A. SAFIER ⁶ 6467 California San Francisco, CA 94121 Telephone: (415) 336-6545 ⁹ Attorneys for Plaintiffs, WILLEM VROEGH AND ¹⁰ SCOTT WITTHOFF ¹¹ SUPERIOR COURT OF THE STATE OF CALIFORNIA ¹² CITY AND COUNTY OF SAN FRANCISCO ¹⁴ WILLEM VROEGH, an individual, and California resident, on behalf of himself, the general public and one or more classes of similarly situated persons, AND ¹⁶ Plaintiffs, ¹⁷ Plaintiffs, ¹⁸ Plaintiffs, ¹⁸ Plaintiffs, ¹⁹ Plaintiffs, ¹⁰ Plaintiffs, ¹¹ DANE ELEC CORP. USA, a foreign corporation; EASTMAN KODAK COMPNY, a foreign corporation; 2NNJ DOES 1 THROUGH 200, ¹¹ Defendants. 	1	ADAM GUTRIDE (State Bar No. 181446) LAW OFFICES OF ADAM GUTRIDE	
 ⁵ Telephone: (415) 271-6469 ⁶ Facsimile: (928) 438-1285 ⁵ SETH A. SAFIER (State Bar No. 197427) LAW OFFICES OF SETH A. SAFIER ⁶ 6467 California ⁷ San Francisco, CA 94121 Telephone: (415) 336-6545 ⁸ Facsimile: (415) 876-4345 ⁹ Attorneys for Plaintiffs, ¹⁰ WILLEM VROEGH AND ¹² SUPERIOR COURT OF THE STATE OF CALIFORNIA ¹² CITY AND COUNTY OF SAN FRANCISCO ¹⁴ WILLEM VROEGH, an individual, and California ¹⁵ resident, on behalf of himself, the general public and one or more classes of similarly situated persons, AND ¹⁶ SCOTT WITTHOFF, an individual, and California resident, on behalf of himself, the general public and one or more classes of similarly situated persons, AND ¹⁷ Plaintiffs, ¹⁸ Plaintiffs, ¹⁸ Plaintiffs, ¹⁹ Plaintiffs, ¹⁰ Plaintiffs, ¹¹ PHOTO FILM USA, INC., a foreign corporation; FUII PHOTO FILM USA, INC., a foreign corporation; EASTMAN KODAK COMPANY, a foreign corporation; P.N.Y. ELECTRONICS, INC., a foreign corporation; AND DOES 1 THROUGH 200, ¹⁰ Defendants. 	2		
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25 Defendants.	24	i , , , ,	
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Third Amended Class Action Complaint and Complaint in Intervention for False Advertising; Unfair Business Practices; Breach of Contract; Misrepresentation and Violation of the CLRA – CGC-04-428953 COME NOW, Willem Vroegh and Scott Witthoff, individuals and California residents,
 and bring this Third Amended Class Action Complaint against Defendants identified herein, on
 behalf of himself, the general public and/or one or more classes of similarly situated persons, for
 violations of sections 17200 and 17500 *et seq.*, of the California Business and Professions Code,
 breach of contract, fraud, deceit and/or misrepresentation and violation of the California
 Consumers Legal Remedies Act, California Civil Code § 1750, *et seq.*

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WHO ALLEGES AS FOLLOWS:

8 I. <u>PARTIES</u>

9 1. Willem Vroegh ("Vroegh") is, and at all times alleged in this Third Amended
10 Class Action Complaint was, an individual, and a California resident, with his place of residence
11 in the City and County of San Francisco, California.

Scott Witthoff ("Witthoff") is, and at all times alleged in this Third Amended
 Class Action Complaint was, an individual, and a California resident, with his place of residence
 in the City and County of San Francisco, California.

15 3. The Parties identified in paragraphs 1 and 2 of this Third Amended Class Action
16 Complaint are collectively referred to hereafter as "Plaintiffs."

17 4. Defendant Dane Elec Corp. USA ("Dane Elec") is a corporation duly incorporated
18 under the laws of the state of Delaware, having its principal place of business in Irvine,

19 California.

20 5. Defendant Fuji Photo Film USA, Inc. ("FujiFilm") is a corporation duly
21 incorporated under the laws of the state of New York, having its principal place of business in
22 Valhalla, New York.

6. Defendant Eastman Kodak Company ("Kodak") is a corporation duly incorporated
under the laws of the state of New Jersey, having its principal place of business in Rochester,
New York.

7. Defendant Lexar Media, Inc. ("Lexar") is a corporation duly incorporated under
the laws of the state of Delaware, having its principal place of business in Fremont, California.

28 8. Defendant P.N.Y. Electronics, Inc. ("P.N.Y.") is a corporation duly incorporated

under the laws of the state of New Jersey, having its principal place of business in Parsippany,
 New York.

9. Defendant SanDisk Corporation ("SanDisk") is a corporation duly incorporated
under the laws of the state of Delaware, having its principal place of business in Sunnyvale,
California.

10. The true names and capacities of Defendants sued as Does 1 through 200 inclusive
are unknown to Plaintiffs, who therefore sue said Defendants by such fictitious names pursuant to
section 474 of the California Code of Civil Procedure. Plaintiffs will seek leave of Court to
amend this Third Amended Class Action Complaint when said true names and capacities have
been ascertained. The Parties identified in paragraphs 4 through 10 of this Third Amended Class
Action Complaint are collectively referred to hereafter as "Defendants."

11. At all times herein mentioned, each of the Defendants was the agent, servant,
representative, officer, director, partner or employee of the other Defendants and, in doing the
things herein alleged, was acting within the scope and course of his/her/its authority as such
agent, servant, representative, officer, director, partner or employee, and with the permission and
consent of each Defendant.

17 12. At all times herein mentioned, Defendants, and each of them, were members of,
18 and engaged in, a joint venture, partnership and common enterprise, and acting within the course
19 and scope of, and in pursuance of, said joint venture, partnership and common enterprise.

20 13. At all times herein mentioned, the acts and omissions of Defendants, and each of
21 them, concurred and contributed to the various acts and omissions of each and all of the other
22 Defendants in proximately causing the injuries and damages as herein alleged.

14. At all times herein mentioned, Defendants, and each of them, ratified each and
every act or omission complained of herein. At all times herein mentioned, the Defendants, and
each of them, aided and abetted the acts and omissions of each and all of the other Defendants in
proximately causing the damages, and other injuries, as herein alleged.

27 II. <u>STATEMENT OF FACTS AND ALLEGATIONS</u>

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a. Defendants Market, Advertise, Manufacture And/Or Sell Flash-Based

Memory Cards And Devices.

15. Defendants are engaged in the business of manufacturing, advertising, marketing
 and/or selling throughout the world, and to California residents in particular, removable digital
 storage media that incorporate flash memory technology. These media commonly are known as
 memory sticks, flash memory cards, CompactFlash cards, SmartMedia cards, MultiMedia cards,
 SecureDigital (or SD) cards, and xD-picture cards. For the purposes of this Third Amended Class
 Action Complaint, these and other removable digital storage media incorporating flash memory
 technology will be collectively referred to as "Flash Memory Cards."

9 16. Defendants' Flash Memory Cards typically are produced in the form of thin wafers 10 which are square or rectangular in shape and one to two inches in length and/or width. They are 11 designed to be inserted into, and removed from, numerous digital devices, including digital 12 cameras, personal digital assistants (PDAs), cellular telephones, Flash Memory Drives, digital 13 musical instruments, and television recording devices. They also can be connected to a personal 14 computer, usually by being inserted into a card reader that is connected to a computer's universal 15 serial bus (USB) port or by being inserted into a card adapter that plugs into a computer's PC-16 card slot.

17 17. Defendants also are engaged in the business of manufacturing, advertising, 18 marketing and/or selling throughout the world, and to California residents in particular, integrated 19 digital storage devices that incorporate that flash memory technology. These devices are 20 commonly known as "USB memory," "USB drives," "thumb drives," "jump drives" or "flash 21 drives." For the purposes of this Third Amended Class Action Complaint, these digital storage 22 devices that incorporate flash memory technology will be collectively referred to as "Flash 23 Memory Drives." Essentially, a Flash Memory Drive is a device that integrates a Flash Memory 24 Card with a card reader and (typically USB) connector in a single unit. As used herein the term 25 "Flash Memory Drives" shall include Defendants' use of such Flash Memory Cards when they 26 are embedded in digital cameras and/or other electronic devices.

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18. Flash Memory Drives often are cylindrical or box-like, one to two inches in

length, and sometimes designed to be connected to a key chain or zipper. They typically can be
 plugged directly into a USB port on a personal computer or into a computer's PC-card slot.

3 19. For the purposes of this Third Amended Class Action Complaint references to
4 "flash memory" and "flash technology" mean both Flash Memory Cards and Flash Memory
5 Drives unless otherwise stated or contextually inappropriate.

6 20. Both Flash Memory Cards and Flash Memory Drives store digital information using "flash" memory technology. Flash memory is a solid-state, non-volatile, rewritable 7 memory that combines the benefits of random access memory ("RAM") and a hard disk drive. 8 Like RAM, flash memory requires no moving parts and stores bits of electronic data in memory 9 cells that can be quickly accessed. Like a hard disk drive, flash memory is non-volatile and thus 10 does not require power to maintain data. As a result, Flash Memory Cards and Flash Memory 11 Drives can be "hot-swapped" into and out of devices without powering them on or off. In 12 addition, data can be maintained for many years, with few to no risks of mechanical failures or 13 other degradation. These features have made flash memory/technology ideal for many 14 applications and led it to increasingly dominate the data storage marketplace. 15

16 21. Every Flash Memory Card or Flash Memory Drive marketed, advertised,
17 manufactured and/or sold by Defendants has a particular capacity for storing digital information.
18 This capacity is invariably represented as a number of "megabytes" (or "MB") or gigabytes (or
19 "GB").

20 22. All Flash Memory Cards and Flash Memory Drives are designed to be used in
21 conjunction with personal computers and their operating systems. For example, after a digital
22 camera stores image files on Flash Memory Cards, those files might be uploaded into a personal
23 computer to be edited or emailed to friends. Likewise, a word processing file might be
24 downloaded onto a Flash Memory Card for use in a PDA or on another computer. Flash Memory
25 Drives are designed specifically for the purpose of uploading and downloading files from a
26 personal computer for ease of transport and safekeeping.

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b. <u>Defendants Knowingly and Deceptively Misrepresent The File Storage</u> <u>Capabilities Of Their Flash Memory Cards and Flash Memory Drives, Which</u> <u>Deceives And Misleads Consumers.</u>

In marketing, advertising and/or packaging their Flash Memory Cards and Flash
 Memory Drives, Defendants misrepresent the size of the memory storage contained in the Flash
 Memory Cards and Flash Memory Drives.

24. Defendant Dane Elec--via its website located at www.dane-memory.com and 4 through online and offline distributors and retailers--markets, advertises and/or sells a number of 5 Flash Memory Cards and Flash Memory Drives including for example and without limitation the 6 Dane-Elec 128MB MultimediaTM Card. Attached hereto as Exhibit 1 and incorporated herein as 7 if set forth in full are true and correct copies of advertising, marketing or website materials 8 disseminated by Defendant Dane Elec, which contain examples of the representations that 9 Defendant Dane Elec makes to the general public about the Flash Memory Cards or Flash 10 Memory Drives it sells. 11

25. Defendant FujiFilm--via its website located at www.fujifilm.com and through 12 online and offline distributors and retailers--markets, advertises and/or sells a number of Flash 13 Memory Cards and Flash Memory Drives including for example and without limitation the 64MB 14 FujiFilm Secure Digital[™] (SD) card and 256MB USB Flash Memory Drive. Attached hereto as 15 Exhibit 2 and incorporated herein as if set forth in full are true and correct copies of advertising, 16 marketing or website materials disseminated by Defendant FujiFilm, which contain examples of 17 the representations that Defendant FujiFilm makes to the general public about the Flash Memory 18 Cards or Flash Memory Drives it sells. 19

26. 20 Defendant Kodak--via its website located at www.kodak.com and through online and offline distributors and retailers--markets, advertises and/or sells a number of Flash Memory 21 Cards and Flash Memory Drives including for example and without limitation the Kodak 256 MB 22 SDTM Card and Kodak Easy Share CX7530 digital camera. Attached hereto as Exhibit 3 and 23 incorporated herein as if set forth in full are true and correct copies of advertising, marketing or 24 website materials disseminated by Defendant Kodak, which contain examples of the 25 representations that Defendant Kodak makes to the general public about the Flash Memory Cards 26 or Flash Memory Drives it sells. 27

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27. Defendant Lexar--via its website located at www.kingston.com and through online

and offline distributors and retailers--markets, advertises and/or sells a number of Flash Memory
 Cards and Flash Memory Drives including for example and without limitation the 256MB
 CompactFlash Card. Attached hereto as Exhibit 4 and incorporated herein as if set forth in full
 are true and correct copies of advertising, marketing or website materials disseminated by
 Defendant Lexar, which contain examples of the representations that Defendant Lexar makes to
 the general public about the Flash Memory Cards or Flash Memory Drives it sells.

28. Defendant P.N.Y. Electronics--via its website located at www.pny.com and 7 through online and offline distributors and retailers--markets, advertises and/or sells a number of 8 9 Flash Memory Cards and Flash Memory Drives including for example and without limitation the 32MB PNY SmartMedia[™] Card. Attached hereto as Exhibit 5 and incorporated herein as if set 10 forth in full are true and correct copies of advertising, marketing or website materials 11 disseminated by Defendant P.N.Y. Electronics, which contain examples of the representations 12 that Defendant P.N.Y. Electronics makes to the general public about the Flash Memory Cards or 13 Flash Memory Drives it sells. 14

29. Defendant SanDisk--via its website located at www.sandisk.com and through 15 online and offline distributors and retailers--markets, advertises and/or sells a number of Flash 16 Memory Cards and Flash Memory Drives including for example and without limitation the 17 SanDisk 64MB SmartMedia Card. Attached hereto as Exhibit 6 and incorporated herein as if set 18 forth in full are true and correct copies of advertising, marketing or website materials 19 disseminated by Defendant SanDisk, which contain examples of the representations that 20 Defendant SanDisk makes to the general public about the Flash Memory Cards or Flash Memory 21 Drives it sells. 22

30. Defendants overstate the storage capacity of the above-mentioned products, as
well as all other Flash Memory Cards and Flash Memory Drives manufactured, marketed,
advertised and/or sold by each of them. Additionally, in other Flash Memory Cards and Flash
Memory Drives that are manufactured, marketed, advertised and/or sold by Defendants,
Defendants and each of them overstate the amount of memory available to the end user or
consumer (i.e., they overstate the amount of memory which the end user or consumer can use to

1	store his or he	er files, pictures, etc). For example, the following Defendants overstate the
2	memory capac	city of the following Flash Memory Cards and Flash Memory Drives:
3	a.	Defendant Dane Elec manufacturers, markets, advertises and/or sells the Dane-
4		Elec 256 MB CompactFlash memory card. In actuality, the Dane-Elec "256 MB"
5		CompactFlash memory card only provides the end user with 255,827,968 bytes or
6		approximately 243MB of usable memory. See the Windows property screen for
7		that Flash Memory Card attached hereto as Exhibit 1.
8	b.	Defendant FujiFilm manufacturers, markets, advertises and/or sells the FujiFilm
9		256MB USB Drive. In actuality, the FujiFilm "256MB" USB Drive only provides
10		the end user with 255,320,064 bytes or approximately 243MB of usable memory.
11		See the Windows property screen for that Flash Memory Card attached hereto as
12		Exhibit 2.
13	c.	Defendant Kodak manufacturers, markets, advertises and/or sells the Kodak 64MB
14		CompactFlash memory card. In actuality, the Kodak "64MB" CompactFlash
15		memory card only provides the end user with 63,868,928 bytes or approximately
16		60.9MB of usable memory. Additionally, Kodak's EasyShare CX7530 digital
17		camera with "32MB" of memory, in actuality provides the end user with
18		approximately 26,353,664 bytes or 25.1MB of usable memory. See the Windows
19		property screen for the Flash Memory Card attached hereto as Exhibit 3.
20	d.	Defendant Lexar manufacturers, markets, advertises and/or sells the Lexar 128MB
21		SD memory card. In actuality, the Lexar "128MB" SD memory card only
22		provides the end user with 127,041,536 bytes or approximately 121MB of usable
23		memory. See the Windows property screen for that Flash Memory Card attached
24		hereto as Exhibit 4.
25	e.	Defendant P.N.Y. Electronics manufacturers, markets, advertises and/or sells the
26		P.N.Y. 32MB SmartMedia memory card. In actuality, the P.N.Y. "32MB"
27		SmartMedia memory card only provides the end user with 32,735,232 bytes or
28		approximately 31.2MB of usable memory. See the Windows property screen for

that Flash Memory Card attached hereto as Exhibit 5.

f. Defendant SanDisk manufacturers, markets, advertises and/or sells the SanDisk
64MB SmartMedia memory card. In actuality, the SanDisk "64MB" SmartMedia
memory card only provides the end user with 65,486,848 bytes or approximately
62.4MB of usable memory. See the Windows property screen for that Flash
Memory Card attached hereto as Exhibit 6.

31. As is set forth in more detail below, Plaintiffs allege that one possible explanation
for the overstated memory in Flash Memory Cards and Flash Memory Drives is that Defendants
intentionally, misleading and deceptively employ a method of determining memory size that is
inconsistent with the binary standard on which all digital files are based. There are, however,
other possible explanations for the diminished accessible storage capacity in Defendants' Flash
Memory Cards and Flash Memory Drives of all of which are equally as misleading and deceptive.

32. Other possible explanations or rationales for the diminished accessible storage 13 capacity in Defendants' Flash Memory Cards and Flash Memory Drives include disk partitioning 14 and/or formatting, bad disk sectors, pre-installed software or internal operational data storage 15 requirements, and/or idiosyncratic interoperability with particular operating systems. There may 16 be additional explanations or rationales for the diminished accessible storage capacity that are 17 currently unknown to Plaintiffs. Regardless of the rationale or explanation, on all Defendants' 18 Flash Memory Cards and Flash Memory Drives, the end user or consumer is unfairly, 19 misleadingly and deceptively provided with less accessible storage capacity than Defendants 20 market, advertise or otherwise claim. 21

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c. <u>Plaintiffs Were Misled And Deceived By Defendants About The Storage</u> <u>Capacity of Their Flash Memory Cards and Flash Memory Drives.</u>

33. On or about August 8, 2001, Plaintiff Vroegh purchased a 32MB SmartMedia
Memory Card, which is manufactured by Defendant P.N.Y. Electronics. Plaintiff Vroegh made
the purchase from Best Buy stores at its retail location in Skokie, Illinois. The packaging for the
product stated that it contained "32MB." The package did not state the actual number of bytes
nor does it state that the actual memory size may be less. After purchasing the product, Plaintiff

Vroegh learned of its actual memory size by attaching it to his personal computer. Plaintiff
 Vroegh' computer reported that the actual available memory of the P.N.Y. "32MB" SmartMedia
 Memory Card was approximately 31MB.

34. On or about December 3, 2002, Plaintiff Vroegh purchased a 64MB SmartMedia 4 Card, which is manufactured by Defendant SanDisk. Plaintiff Vroegh made the purchase from 5 CompUSA via the internet from his home in San Francisco, California. The packaging for the 6 product stated that it contained "64MB." The package did not state the actual number of bytes 7 nor does it state that the actual memory size may be less. After purchasing the product, Plaintiff 8 Vroegh learned of its actual memory size by attaching it to his personal computer. Plaintiff 9 Vroegh's computer reported that the actual available memory of the SanDisk "64MB" 10 11 SmartMedia Card was approximately 62.4MB.

35. On or about July 15, 2002, Plaintiff Vroegh purchased a 64MB CompactFlash
Card, which is manufactured by Defendant Lexar. Plaintiff Vroegh made the purchase from Ritz
Camera at its retail location in Berkeley, California. The packaging for the product stated that it
contained "64MB." The package did not state the actual number of bytes nor does it state that the
actual memory size may be less. After purchasing the product, Plaintiff Vroegh tested its actual
memory size by attaching it to his personal computer. Plaintiff Vroegh's computer reported that
the actual available memory of the Lexar "64MB" CompactFlash Card was 61.2MB.

36. On or about December 18, 2004, Plaintiff Vroegh purchased a Kodak EasyShare 19 CX7530 digital camera, which is manufactured by Defendant Kodak. Plaintiff Vroegh made the 20 purchase from Best Buy stores at its retail location in Marin City, California. The packaging for 21 the product stated that it contained "32MB." The package did not state the actual number of 22 bytes nor does it state that the actual memory size may be less. After purchasing the product, 23 Plaintiff Vroegh learned of its actual memory size by attaching it to his personal computer. 24 Plaintiff Vroegh's computer reported that the actual available memory of the Kodak "32MB" 25 26 digital camera was approximately 25.1MB.

27 37. On or about January 13, 2005, Plaintiff Witthoff purchased a 256MB USB Drive,
28 which is manufactured by Defendant FujiFilm. Plaintiff Witthoff made the purchase via the

Internet from his home in San Francisco, California. The packaging for the product stated that it
 contained "256MB." The package did not state the actual number of bytes nor does it state that
 the actual memory size may be less. After purchasing the product, Plaintiff Witthoff learned of
 its actual memory size by attaching it to his personal computer. Plaintiff Withoff's computer
 reported that the actual available memory of the FujiFilm "256MB" USB Drive was
 approximately 243MB.

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d. <u>Defendants' Method Of Determining Memory Size Is Inconsistent With The</u> <u>Binary Standard On Which All Digital Files Are Based.</u>

i. <u>The Terms "Byte," "Kilobyte," And "Megabyte" Are Each Defined In</u> <u>Base-Two.</u>

38. All digital files consist of a series of ones and zeros, which is known as "binary"
information. The term "binary" refers to the fact that each digit can have only one of two
values—either one or zero.

13 39. Each one or zero in a digital file is called a "bit." The word "bit" stands for
14 "*bi*nary digit."

40. Binary information is the standard, because microprocessors process data by
passing it through a series of switches stored on silicon chips. When the microprocessor reads a
"one," the switch flips from the "off" position to the "on" position or vice-versa. When the
microprocessor reads a "zero," the switch stays as it was. By passing data through millions of
switches, the microprocessor processes the information.

20 41. The binary system used by a microprocessor is different from the system that 21 humans use to process information. People typically count in base-ten, also called the "decimal" 22 system. When doing addition, people count from 0 to 9 in the "ones" column, then 0 to 9 in the 23 "tens" column, then 0 to 9 in the "hundreds" column. Each column represents a factor of 10. 24 Thus $10 = 10^1$, $100 = 10^2$, $1000 = 10^3$, and so on.

42. In binary computing, a computer counts in base-two. Each column goes only from
0 to 1. Thus each column represents a factor of 2, such as 2¹, 2², 2³, 2⁴, 2⁵, and so on.

43. While it may be easiest for humans to process information based on numbers in
base-ten, it is most efficient for computers to process information based on numbers in base-two.

44. Except for theoretical prototypes, all computer/digital processors sold everywhere
 in the world use binary information. These include personal computers, PDAs, digital cameras,
 cellular telephones, MP3 players and all other devices that use Flash Memory Cards or connect to
 Flash Memory Drives.

- 5 45. To harness the speed of binary or base-two computing, memory storage originally
 6 was designed in sizes that equaled an exponent of the number two.
- 7

46. Every group of eight (2^3) bits was called a "byte."

8 47. Bytes were further grouped in exponents of two. Every group of 2¹⁰ (or 1024)
9 bytes was called a kilobyte or KB. Every group of 2²⁰ (or 1,048,576) bytes was called a
10 megabyte or MB. Every group of 2³⁰ (or 1,073,741,824) bytes was called a gigabyte or GB.

48. In using this terminology, computer architects borrowed the prefixes "kilo,"
"mega" and "giga" from the International System of Units (also known as the "metric system")
but changed the meanings. While a kilometer (km) was 1000 (10³) meters and a kilogram (kg)
was 1000 (10³) grams, a kilobyte (KB) was 1024 (or 2¹⁰) bytes. Likewise, while a megaton
(mton) was 1,000,000 (10⁶) tons, a megabyte (MB) was 1,048,576 (or 2²⁰) bytes. And while a
gigahertz (GHz) was 1,000,000,000 (10⁹) cycles per Third, a gigabyte (GB) was 1,073,741,824
(2³⁰) bytes.

49. Because the metric system did not include the unit "byte," it did not define terms
such as "megabyte" and "gigabyte."¹ The use of the prefixes "mega" or "giga" before "byte"
does not make those terms governed by the metric system any more than it could be said that one
is using the metric system by describing a location as "10 kiloyards" away or a volume as "750
milliquarts." "Yard" and "quart" are (like "byte") not metric measurements, so none of these
terms become "metric" merely by adding the prefix such as "mega" or "giga." Similarly, the
words "megaphone" and "megavitamin" are not "metric" terms (they do not literally mean 1

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¹ The metric system was designed to establish seven base units of measurement: length (meter), mass (kilogram), thermodynamic temperature (Kelvin), time (second), electric current (ampere), amount of substance (mole) and luminous intensity (candela), as well as derivatives of these units (e.g., force is measured in Newtons, equal to 1 kg-m/s²), and multiples of these units (e.g., 1/100 = centi, 1000=kilo).

million phones or 1 million vitamins); rather the use of the prefix "mega" is understood to have a
 different meaning in those contexts because, among other things, "phone" and "vitamin" are not
 base terms in the metric system.

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ii. <u>Consumers Have Become Familiar With The Base-Two System In</u> <u>Counting Bytes.</u>

6 50. The use of the base-two system, and particularly the terms kilobyte (KB) and 7 megabyte (MB) in conjunction with this system, have become familiar to consumers who use 8 computers. It is common, for example, to find a computer that has "256MB" or "512MB" of 9 RAM, but it would be very unusual to see a computer with "250MB" or "500MB" of RAM. The 10 simple reason is that 256 and 512 are base-two numbers ($256=2^8$, $512=2^9$), whereas 250 and 500 11 are not. 256 MB is the same as 2^{28} bytes and 512 MB is the same as 2^{29} bytes. But there is no 12 easy base-two conversion for 250MB or 500 MB.

51. Furthermore, computer users are presented with the base-two counting system 13 whenever they look at the size of files stored on their hard disk drive or storage medium, whether 14 they are using the Windows, Linux, Apple or any other operating systems. For example, users of 15 the Microsoft Windows operating system (who comprise more than 97% of all computer users) 16 will see a list of files contained in a particular folder, showing the total size of the folder and the 17 file size of each file as a number of "KB" or kilobytes. If the user clicks on the "properties" for a 18 particular file, the user will then see the same size given in "MB" or megabytes and "bytes." 19 Each of these numbers is computed using the base-two system. For example, if a particular file 20 appears in the list as "2,088 KB," the properties screen will show "2.03 MB (2,138,112 bytes)." 21 The reason is that 2,138,112 bytes divided by 1024 (2^{10}) equals 2,088 KB, and 2,088 kilobytes 22 23 divided by 1024 equals 2.03 MB. If the number had been computed in base-ten instead of basetwo, then 2,138,122 bytes would be shown as 2,138 KB instead of 2,088 KB, and as 2.14MB 24 instead of 2.03MB. 25

52. Beyond just becoming accustomed to the base-two system in the context of
computers and related applications, consumers are ultimately dependent on their particular
operating systems' calculation and representation of file size. Indeed, for the average consumer,

there is no other way to gather such information. So, for example, if a consumer wants to transfer 1 a particular picture file to a CD or email a file to a friend, before doing so, consumers frequently 2 check the file size in their operating system to make certain that it will fit on the CD or is not too 3 large for it to be sent or downloaded by a particular email recipient or account. Additionally, 4 consumers frequently check the space or storage capacity remaining on their Flash Memory 5 Cards, Flash Memory Drives, hard drives, external drives, email in-boxes, CDs, diskettes, etc. In 6 short, the average consumers' understanding and measurement of storage capacity and file size is 7 entirely predicated on the base-two system that is, and has always been, used by operating 8 9 systems such as Windows, Mac or Linux.

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iii. <u>The Binary Representation Of File Sizes And MP3 Player Storage</u> <u>Capacity Are Especially Important To Someone Who Wants To Use</u> <u>A Flash Memory Card Or Flash Memory Drive.</u>

12 53. As set forth above, all Flash Memory Cards and Flash Memory Drives
13 manufactured and sold by Defendants are designed to work in conjunction with personal
14 computers.

54. In preparing to transfer files from a personal computer (or the Internet) to a Flash 15 Memory Card or Flash Memory Drive, or vice versa, a consumer will typically see on his or her 16 computer screen a list of files, with the file sizes stated in bytes, kilobytes and/or megabytes. 17 Where the files are stored the on the consumers' hard drive, the user will also see the total size of 18 all files in a particular folder using the same measures. Where a consumer is downloading a file 19 directly to their Flash Memory Card or Flash Memory Drive from the Internet, they will typically 20 see on a particular website a list of available files, with the file sizes stated in bytes, kilobytes 21 and/or megabytes. Where a consumer is uploading a file directly from their Flash Memory Card 22 or Flash Memory Drive to their computer, the will typically see a particular card/drive, with the 23 drive and file sizes stated in bytes, kilobytes and/or megabytes. In each case, the number of 24 kilobytes will equal the number of bytes divided by 1024 (or 2^{10}) and the number of megabytes 25 will equal the number of bytes divided by 1,048,576 (or 2^{20}). 26

27 55. Consumers purchase a particular Flash Memory Cards or Flash Memory Drive
28 only after they have made a threshold decision regarding their desired memory size. Flash

Memory Cards and Flash Memory Drives are priced in proportion to their storage capacity. 1

56. Only after purchasing a Flash Memory Card or Flash Memory Drive will a 2 consumer learn that the actual capacity of that card or device is less than claimed, and that 3 therefore the card or device can hold fewer files than anticipated based on their experience and 4 understanding of computer storage and file size. 5

6

e. Defendants Know That Their Conduct Is Misleading.

57. Defendants have long known that the public was likely to be confused by their 7 overstatement of the number of "megabytes" or "gigabytes" of storage in their Flash Memory 8 9 Cards and Flash Memory Drives. Defendants knew that these terms had originally been adopted in the computer industry as base-two numbers, and that they were still in widespread use as base-10 two numbers. 11

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i. International Organizations Recognized The Confusion

58. Defendants gained further knowledge about confusion caused by the definitions of 13 kilobyte, megabyte and gigabyte by participating in or being informed about the proceedings of 14 the International Electrotechnical Commission (IEC) and/or the Institute for Electrical and 15 Electronics Engineers (IEEE). 16

59. The IEC and IEEE are organizations for worldwide standardization in electronics 17 and electrotechnology. In December 1998, the IEC recognized the confusion as to the meaning of 18 terms like "kilobyte" and "megabyte" and attempted to address it by approving an international 19 standard for prefixes for binary multiples for use in the fields of data storage, processing and 20 transmission. Over the next four years, the IEEE addressed the same confusion and attempted to 21 address it by approving a draft standard, and later a trial-use standard, to the same effect. 22

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60. Some Defendants are members of the IEC and/or the IEEE and/or participated in the discussions leading up to the adoption of these standards. 24

The standards recommended by the IEC and the trial-use standards recommended 61. 25 by the IEEE provide that the measurement 2^{10} bytes, which had previously been known as a 26 kilobyte, should henceforth be called "kibibyte." Similarly, the measurement 2²⁰ bytes, which 27 had previously been known as a megabyte, should henceforth be called a "mebibyte." Likewise, 28

the measurement 2³⁰ bytes, which had previously been known as a gigabyte, should henceforth be
 called a "gibibyte."

3 62. The IEC standard and IEEE trial-use standards also provided that the terms
4 kilobyte, megabyte, and gigabyte should be redefined to mean 10³, 10⁶ and 10⁹ bytes,
5 respectively, to bring the prefixes "kilo," "mega," and "giga" before "byte" in line with the SI
6 standard definitions for those prefixes, as used in words like kilogram or kilometer or megaton.

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ii. Defendants Have Not Adopted The Standards

8 63. The IEC standard and IEEE trial-use standard have never been uniformly adopted
9 by Defendants. Instead, the base-two computations are still widely used throughout the industry
10 including by Defendants themselves, even in the context of advertising, marketing and selling
11 Flash Memory Cards and Flash Memory Drives.

12 64. In addition, Microsoft Corporation continues to compute file size using the binary
13 standard. Microsoft Corporation is by far the world's largest computer-related company; it makes
14 an operating system used by more than 97% of computer users as well as many leading
15 applications programs. In the technical support section of Microsoft's website, it explains that
16 "[t]o convert [from kilobytes] to megabytes, divide by 1024.... There are 1024 bytes in a
17 kilobyte, not 1000." See http://support.microsoft.com/default.aspx?scid=

18 http://support.microsoft.com:80/support/kb/articles/Q121/8/39.asp&NoWebContent=1, a true and
19 correct copy of which is attached hereto as Exhibit 7.

65. In computing the size of RAM, computer and data storage manufacturers and
distributors, including Defendants, always use the base-two counting system instead of the baseten counting system. One megabyte of RAM is always 2²⁰ bytes (1,048,576 bytes), not 10⁶ bytes
(1,000,000 bytes). One gigabyte of RAM is always 2³⁰ bytes (bytes), (1,073,741,824 bytes), not
10⁹ bytes (1,000,000 bytes).

66. Similarly, in computing the storage capacity of blank computer media such as CDR(s), CD-RW(s), DVD-RW(s) and floppy disks, computer and data storage manufacturers and
distributors, including Defendants, use the base-two counting system instead of the base-ten
counting system. One megabyte of storage on blank media is 2²⁰ bytes (1,048,576 bytes), not 10⁶

bytes (1,000,000 bytes). One gigabyte of storage on blank media is 2^{30} bytes (bytes), 1

(1,073,741,824 bytes), not 10^9 bytes (1,000,000,000 bytes). 2

- 67. Several of the Defendants, including without limitation FujiFilm and P.N.Y 3 Electronics, sell RAM and/or blank media in addition to selling Flash Memory Cards and Flash 4 Memory Drives and thus increase the confusion by using two counting systems simultaneously. 5 See Exhibits 2 and 5, respectively. When describing RAM or blank media, Defendants state the 6 size in megabytes or gigabytes by using the base-two system. Defendant FujiFilm also markets, 7 advertises and sell blank media with the size stated in megabytes that meets or exceeds the 8 amount expected from the base-two definitions of those terms. See Exhibit 2. At the same time, 9 in marketing Flash Memory Cards and Flash Memory Drives, Defendants state the size in 10 megabytes and gigabytes that do not provide the full number of megabytes or gigabytes that 11 would be required by the base-two system. Defendants do not inform consumers that two 12 different standards are being used, nor do they say that a particular number of megabytes or 13 gigabytes of flash memory is fewer bytes than the same number of number of megabytes or 14 gigabytes of RAM or blank media. 15
- 68. Defendants also increase the consumer confusion by selling Flash Memory Cards 16 and Flash Memory Drives in sizes that imply but do not actually use a base-two counting system. 17 For example, virtually all of the Defendants advertise, market and sell Flash Memory Cards and 18 Flash Memory Drives in sizes of 32MB, 64MB, 128MB, 256MB and 512MB. The numbers 32, 19 64, 128, 256 and 512 are all base-two numbers $(2^5, 2^6, 2^7, 2^8 \text{ and } 2^9 \text{ respectively})$. But these 20 companies fail to provide the number of megabytes and gigabytes that are required by defining 21 "MB" and "GB" as base-two numbers $(2^{10} \text{ and } 2^{20}, \text{ respectively})$. 22
- 23 24

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69. In general parlance about computers and file storage, the terms "kilobyte," "megabyte" and "gigabyte" are still defined primarily as base-two numbers, not base-ten numbers. For example, the Free On-line Dictionary of Computing

- (http://foldoc.doc.ic.ac.uk/foldoc/index.html) defines "megabyte" as "(MB, colloquially 'meg') 26
- $2^{20} = 1,048,576$ bytes = 1024 kilobytes. 1024 megabytes are one gigabyte." American 27
- Heritage Dictionary gives the primary definition of megabyte" as "1. A unit of computer memory 28

or data storage capacity equal to 1,048,576 (2²⁰) bytes." The website www.dictionary.com
 provides the same primary definition.

70. The industry reaction to the IEC standards—which has been largely to ignore
them—is perhaps best reflected by the response of a spokesman for Dell Computer Company.
When told of the standards, he replied "Are you joking with me?" See Michael Stroh, "Have a
kibibyte with your PC," <u>Baltimore Sun</u>. March 15, 1999, p.1C.

7 71. Defendants have not engaged in any systematic efforts to clarify their definitions
8 of the terms kilobyte, megabyte and gigabyte or to educate consumers about the IEC standards.
9 Rather, Defendants systematic efforts have been to mislead and deceive consumers into thinking
10 that Flash Memory Card or Flash Memory Drive memory capacities are great than they actually
11 are.

72. Defendants have also not provided consumers with any disclaimer or explanation 12 that intend to use the terms "megabyte" to mean something less than 1,048,576 bytes and 13 gigabyte to mean something less than 1,073,741,824 bytes in their Flash Memory Cards or Flash 14 Memory Drives. To the contrary, close to half of the Defendants including Kodak and P.N.Y 15 Electronics and Viking actually provide consumers with glossary definitions for "megabytes" and 16 "gigabytes" that are binary (i.e., 1MB = 1,048,576 bytes and 1GB = 1,073,741,824 bytes). True 17 and correct copies of those glossaries for Defendants Kodak and P.N.Y Electronics are attached 18 hereto as Exhibits 3 and 5, respectively. 19

20

f. Defendants' Conduct Is Intentional And Leaves Consumers Unprotected.

73. Consumers cannot know the actual number of bytes of storage capacity in the
Flash Memory Card or Flash Memory Drive products sold by Defendants unless they purchase
the products, unpack them, connect them to their personal computers, and then view the
"properties" of the device on their screen.

74. Defendants intentionally mislead and deceive consumers into believing that the
products have more memory storage than they actually do. For example, Defendant Lexar has a
"Frequently Asked Questions" section on its website that explains, "To calculate how many
pictures your [flash memory] card can hold, divide the capacity of your card by the average file

size of your images. For example, if you have a 256MB card, and use a camera that has an
average file size of 1.2MB, then 256 divided by 1.2 gives you approximately 213 pictures."
There follows a chart that shows that a 256MB card will hold 128 files of 2MB, or 80 files of
3.2MB. A true and correct copy of this webpage is attached hereto as Exhibit 4. The statements
by Lexar are false and misleading, because Lexar's 256MB card in fact has only approximately
248 MB of available storage, which means that if filled with files of 1.2MB, 2MB, or 3.2MB, it
would hold only 206 (not 213), 124 (not 128) or 77 (not 80) images, respectively.

- 8 75. Defendants also intend to compel consumers to purchase additional Flash Memory
 9 Cards or Flash Memory Drives, or upgrade their Flash Memory Cards or Flash Memory Drives to
 10 a larger size, at an additional charge.
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g. <u>Defendants' Misleading Conduct Leads To Significant Losses By California</u> <u>Consumers, Consumers Nationwide And Harms Competitors.</u>

13 76. Annual worldwide sales of Flash Memory Cards and Flash Memory Drives by
14 Defendants are in the hundreds of millions of dollars. A substantial proportion of the total
15 worldwide sales, estimated at 10% or more, occurred and will occur in California.

16 77. As set forth above, Defendants overstate the storage capacity of their Flash
17 Memory Cards and Flash Memory Drives.

18 78. If Defendants disclosed the true storage size of their Flash Memory Cards and
19 Flash Memory Drives, the Flash Memory Cards and Flash Memory Drives would not have been
20 purchased, or if purchased, the purchase prices would have been lower. The amounts overpaid to
21 each Defendant can be computed by, among other things, comparing the prices that each
22 Defendant charges for different sized Flash Memory Cards or Flash Memory Drives, which
23 reflects its incremental price for each additional unit of memory storage.

24 79. Defendants' conduct unfairly disadvantages those competitors who more
25 accurately disclose the number of bytes, kilobytes, megabytes and/or gigabytes in their Flash
26 Memory Cards and Flash Memory Drives. For example, in its website marketing of its flash
27 Memory Sticks with "256MB" of storage, Sony Electronics, Inc., provides the following
28 disclaimer: "Actual Usable Capacity: 123MB per side (for a total of 246MB)." A true and

correct copy of that webpage is attached hereto as Exhibit 8. The lack of similar disclosures from
 Defendants makes their conduct even more misleading, in that it causes consumers to believe that
 a 256MB Flash Memory Card or Flash Memory Drive sold by Sony Electronics, Inc. has less
 "actual usable capacity" than a 256MB device sold by Defendants.

5 80. The absence of such a disclosure on Defendants' marketing, advertisements,
6 websites and/or packaging further deceives, misleads and confuses consumers.

81. Defendants supply and sell the overwhelming majority of the Flash Memory Cards
and Flash Memory Drives sold in the State of California and the United States.

- 9 82. Defendants intentionally target their false, deceptive and misleading advertising
 10 and marketing materials to users of the personal computers by advertising on major Internet sites
 11 and by posting marketing materials at their own Internet sites, in their stores and in print,
 12 television and radio media nationwide.
- 13 **III.**

JURISDICTION AND VENUE

14 83. This action is brought by Plaintiffs pursuant, *inter alia*, to the California Business
15 and Professions Code, Sections 17200 *et. seq.* Plaintiffs and Defendants are "persons" within the
16 meaning of the California Business and Professions Code, Sections 17201. Plaintiffs bring this
17 action by, for and on behalf of the general public and the public interest of the State of California.

18 84. Plaintiffs are, and at all times relevant to this action have been, residents of the city
19 and county of San Francisco, California.

20 85. Defendants have solicited more potential customers for Flash Memory Cards and
21 Flash Memory Drives and sold more Flash Memory Cards and Flash Memory Drives in
22 California than in any other state in the United States.

- 86. Plaintiffs purchased the Flash Memory Cards and Flash Memory Drives in San
 Francisco, California, Marin City, California and the Bay Area. They did so after receiving
 marketing material sent to them at their residences and after doing research on the Internet.
- 26 87. At least half of the Defendants have their principal places of business in
 27 California. No other state hosts the principal places of business of more than one third of
 28 Defendants.

88. At least 60% of Defendants are citizens of California. No other state is the place
 of citizenship of more than 20% of Defendants.

3 89. The injuries, damages and/or harm upon which this action is based, occurred or
4 arose out of activities engaged in by Defendants within, and affecting, the State of California.

5

90. Defendants have engaged, and continue to engage, in substantial and continuous business practices in the State of California, including in the City and County of San Francisco.

7

6

91. As such, Plaintiffs allege that jurisdiction and venue is proper in this Court.

8 IV. <u>CLASS ALLEGATIONS</u>

9 92. Plaintiffs bring this action against Defendants on behalf of themselves and all
others similarly situated, as a class action pursuant to section 382 of the California Code of Civil
Procedure. The class or classes that Plaintiffs seek to represent are composed of and defined as
follows:

All persons who, or at any time within the four years preceding the filing of this
Action, purchased any Flash Memory Card and/or Flash Memory Drive that was
manufactured, distributed, marketed or sold by a named Defendant.

16 For purposes of this Third Amended Class Action Complaint, phrase "Class Members" shall refer17 collectively to all members of these classes, including the named Plaintiffs.

18 93. This action has been brought and may properly be maintained as a class action
19 against the Defendants pursuant to the provisions of California Code of Civil Procedure section
20 382 because there is a well-defined community of interest in the litigation and the proposed class
21 is easily ascertainable:

94. Numerosity: Plaintiffs do not know the exact size of the class, but it is estimated
that the class is composed of more than 10,000,000 persons. Furthermore, even if subclasses
need to be created for the consumers of one or more product(s) or one or more Class
Defendant(s), it is estimated that each subclass would have thousands if not tens of thousands of

26 members. The persons in the class are so numerous that the joinder of all such persons is

27 impracticable and the disposition of their claims in a class action rather than in individual actions

28 will benefit the parties and the courts.

95. 1 Common Questions Predominate: This action involves common questions of law and fact to the potential class because each Class Member's claim derives from the same 2 allegedly false, misleading, deceptive and/or unfair representations, in advertising and labeling of 3 Flash Memory Cards and Flash Memory Drives, that those products have more storage capacity 4 than they actually do. The common questions of law and fact involved predominate over 5 questions that affect only one product, one Class Defendant, or individual Class Members. Thus, 6 proof of a common or single set of facts will establish the right of each member of the class to 7 recover. Among the questions of law and fact common to the class are: 8

9 a. Whether each Defendant's advertising and labeling of their Flash Memory Cards
10 and Flash Memory Drives is false, deceptive, misleading and/or unfair.

b. Whether each Defendant's breached their contract with the Plaintiffs and thosesimilarly situated.

13

c. Whether each Defendant violated the California Consumers Legal Remedies Act.

14 d. The scope of injunctive relief that should be imposed against Defendants to15 prevent such conduct in the future.

96. Typicality: Plaintiffs' claims are typical of the class because they purchased Flash 16 Memory Cards and Flash Memory Drives manufactured by Defendants in a typical retail 17 consumer process, and those products were advertised, were labeled, and operated in substantially 18 the same fashion as those purchased by all Class Members. Thus, Plaintiffs and Class Members 19 sustained the same injuries and damages arising out of Defendants' conduct in violation of 20 California law and other similar statutes nationwide. The injuries and damages of each Class 21 Member were caused directly by Defendants' wrongful conduct in violation of law as alleged 22 herein. 23

97. Adequacy: Plaintiffs will fairly and adequately protect the interests of all Class
Members because it is in their best interests to prosecute the claims alleged herein to obtain full
compensation due to them for the illegal conduct of which they complain. Plaintiffs also have no
interests that conflict with or are antagonistic to the interests of Class Members. Plaintiffs have
retained highly competent and experienced class action attorneys to represent their interests and

that of the class. No conflict of interest exists between Plaintiffs and Class Members hereby, 1 because all questions of law and fact regarding liability of Defendants are common to Class 2 Members and predominate over any individual issues that may exist, such that by prevailing on 3 their own claim, Plaintiffs necessarily will establish Defendants' liability to all Class Members. 4 Plaintiffs and their counsel have the necessary financial resources to adequately and vigorously 5 litigate this class action, and Plaintiffs and counsel are aware of their fiduciary responsibilities to 6 the Class Members and are determined to diligently discharge those duties by vigorously seeking 7 the maximum possible recovery for Class Members. 8

9 98. Superiority: There is no plain, speedy, or adequate remedy other than by maintenance of this class action. The prosecution of individual remedies by members of the class 10 will tend to establish inconsistent standards of conduct for the Defendants and result in the 11 impairment of Class Members' rights and the disposition of their interests through actions to 12 which they were not parties. Class action treatment will permit a large number of similarly 13 situated persons to prosecute their common claims in a single forum simultaneously, efficiently, 14 and without the unnecessary duplication of effort and expense that numerous individual actions 15 world engender. Furthermore, as the damages suffered by each individual member of the class 16 may be relatively small, the expenses and burden of individual litigation would make it difficult 17 or impossible for individual members of the class to redress the wrongs done to them, while an 18 important public interest will be served by addressing the matter as a class action. 19

20 99. Plaintiffs are unaware of any difficulties that are likely to be encountered in the
21 management of this action that would preclude its maintenance as a class action.

22 V. PRIVATE ATTORNEY GENERAL ALLEGATIONS

23 100. Plaintiffs bring this action against all Defendants on behalf of themselves, those
24 similarly situated in the general public, under Business and Professions Code sections 17200 et
25 seq., seeking equitable and injunctive relief for the unfair trade practices described herein.

26 VI. BASIS FOR ALLEGATIONS

27 101. All prior paragraphs of this Third Amended Class Action Complaint are alleged on
28 the basis of information and belief, with the exception of paragraphs 1-2 and 33-37.

VII. <u>CAUSES OF ACTION</u>

1

2 PLAINTIFFS' FIRST CAUSE OF ACTION (Against All Defendants) 3 (False, Deceptive and/or Misleading Advertising, Business and Professions Code § 17500, et seq.) 4 102. Plaintiffs reallege and incorporate by reference paragraphs 1 through 101, 5 inclusive, of this Third Amended Class Action Complaint as if set forth herein. 6 103. Plaintiffs bring this cause of action on behalf of themselves, Class Members and 7 the general public against the Defendants except Dane Elec Corp USA and on behalf of 8 themselves and the general public against Dane Elec Corp USA. 9 104. Beginning at an exact date unknown to Plaintiffs, but within three (3) years 10 preceding the filing of this Third Amended Class Action Complaint, Defendants have made, and 11 continue to make, untrue, false, deceptive or misleading statements and material omissions in 12 connection with the advertising, sale and marketing of their Flash Memory Cards and Flash 13 Memory Drives throughout the Nation, the State of California and the City of San Francisco. 14 105. Defendants have made, and continue to make untrue, false, deceptive or 15 misleading statements and misrepresentations, misstatements and material omissions regarding 16 the storage capacity of their Flash Memory Cards and Flash Memory Drives. Namely, 17 Defendants have made, and continue to make, misrepresentations (of material omission and 18 commission) that those Flash Memory Cards and Flash Memory Drives have files storage or 19 memory capacities substantially larger than their actual (usable) capacities. 20 106. At all times mentioned herein, Defendants knew, or by the exercise of reasonable 21 care, should have known that these and other statements and omissions were false, deceptive, 22 untrue or misleading. 23 107. By engaging in the foregoing acts and practices with the intent to induce Plaintiffs, 24 Class Members and members of the general public to purchase their Flash Memory Cards and 25 Flash Memory Drives, in lieu of other products including those of their competitors, Defendants 26 have committed, and continue to commit, false, deceptive and misleading advertising, as defined 27 by the California Business and Professions Code, section 17500, et seq. 28

1 108. The Plaintiffs, Class Members and general public are likely to be deceived by
 2 Defendants' practices set forth above.

3 109. Plaintiffs, Class Members and other California residents are in current and ongoing
4 need of protection from the untrue, false, deceptive or misleading advertisements of Defendants.

5 110. The aforementioned practices, which Defendants have used, and continue to use,
6 to their significant financial gain, also constitute unlawful competition and provide an unlawful
7 advantage over Defendants' competitors as well as injury to Plaintiffs, Class Members and the
8 general public.

9 111. Plaintiffs are informed and believe, and thereupon allege, that the general public is
10 likely to be deceived by Defendants' practices set forth above.

11 112. Plaintiffs seek, on behalf of the general public and those similarly situated, full
12 restitution and disgorgement of monies, as necessary and according to proof, to restore any and
13 all monies acquired by Defendants by means of the unfair and/or deceptive trade practices
14 complained of herein.

15 113. Plaintiffs seek, on behalf of the general public and those similarly situated, an
injunction to prohibit Defendants from continuing to engage in the unfair trade practices
complained of herein. The restitution includes all amounts, paid and unpaid, obtained by
Defendants using the tactics described herein, including interest thereon. The acts complained of
herein occurred, at least in part, within three (3) years preceding the filing of this Class Action
Complaint.

114. Plaintiffs, those similarly situated and other members of the general public are 21 further entitled to and do seek both a declaration that the above-described trade practices are 22 unfair, unlawful and/or fraudulent and injunctive relief restraining Defendants from engaging in 23 any of such deceptive, unfair and/or unlawful trade practices in the future. Such misconduct by 24 Defendants, unless and until enjoined and restrained by order of this Court, will continue to cause 25 injury in fact to the general public and the loss of money and property in that the Defendants will 26 continue to violate these California laws, unless specifically ordered to comply with the same. 27 This expectation of future violations will require current and future customers to repeatedly and 28

1 continuously seek legal redress in order to recoup monies paid to Defendants to which Defendants are not entitled. Plaintiffs, those similarly situated and/or other consumers have no 2 other adequate remedy at law to ensure future compliance with the California Business and 3 Professions Code alleged to have been violated herein. 4 As a direct and proximate result of such actions, Plaintiffs, members of the general 115. 5 public and/or others similarly situated have suffered, and continue to suffer, injury in fact and 6 have lost money and or property as a result of such deceptive, unfair and/or unlawful trade 7 practices and unfair competition in an amount which will be proven at trial, but which is in excess 8 9 of the jurisdictional minimum of this Court. As a direct and proximate result of such actions, Defendants have enjoyed, and 116. 10 continue to enjoy, significant financial gain in an amount which will be proven at trial, but which 11 is in excess of the jurisdictional minimum of this Court. 12 PLAINTIFFS' SECOND CAUSE OF ACTION 13 (Against All Defendants) 14 (Unfair, Unlawful and Deceptive Trade Practices, Business and Professions Code § 17200, et seq.) 15 117. Plaintiffs reallege and incorporate by reference paragraphs 1 through 116, 16 inclusive, of this Third Amended Class Action Complaint as if set forth herein. 17 118. Plaintiffs bring this cause of action on behalf of themselves, Class Members and 18 the general public against the Defendants except Dane Elec Corp USA and on behalf of 19 themselves and the general public against Dane Elec Corp USA. 20 119. Beginning at an exact date unknown to Plaintiffs, but within four (4) years 21 preceding the filing of this Third Amended Class Action Complaint, and at all times mentioned 22 herein, Defendants have engaged, and continue to engage, in unfair, unlawful and deceptive trade 23 practices in California by engaging in the misrepresentation, false, misleading and/or deceptive 24 advertising and marketing outlined above. 25 120. Beginning at an exact date unknown to Plaintiffs, but within four (4) years 26 preceding the filing of this Third Amended Class Action Complaint, and at all times mentioned 27

herein, Defendants have engaged, and continue to engage, in unfair, unlawful and/or deceptive

trade practices in California by falsely, deceptively and/or unfairly claiming that their Flash
 Memory Cards and Flash Memory Drives have, and had, storage capacities larger than they
 actually do and did.

4 121. Defendants knowingly and intentionally misrepresent the storage capacity of their
5 Flash Memory Cards and Flash Memory Drives.

6 122. The Plaintiffs, Class Members and general public are likely to be deceived by
7 Defendants' practices set forth above.

8 123. Defendants engage in these unfair practices to increase their profits on the Flash
9 Memory Cards and Flash Memory Drives that they sell as well as to force consumers to purchase
10 memory storage upgrades or new Flash Memory Cards and Flash Memory Drives at an additional
11 charge. As such, Defendants have engaged in unlawful trade practices, as defined and prohibited
12 by section 17200, et seq. of the California Business and Professions Code.

13 124. Defendants purposely fail to disclose, in their advertising and marketing, the way
14 in which they determine the storage capacity of their Flash Memory Cards and Flash Memory
15 Drives or that such (useable) storage may actually be less.

16 125. The aforementioned practices, which Defendants have used, and continue to use,
17 to their significant financial gain, also constitute unlawful competition and provide an unlawful
18 advantage over Defendants' competitors as well as injury to the general public.

19 126. Plaintiffs are informed and believe, and thereupon allege, that the general public is20 likely to be deceived by Defendants' practices set forth above.

127. Plaintiffs seek, on behalf of the general public and those similarly situated, full
restitution and disgorgement of monies, as necessary and according to proof, to restore any and
all monies acquired by Defendants by means of the unfair and/or deceptive trade practices
complained of herein.

128. Plaintiffs seek, on behalf of the general public and those similarly situated, an
injunction to prohibit Defendants from continuing to engage in the unfair trade practices
complained of herein. The restitution includes all amounts, paid and unpaid, obtained by
Defendants using the tactics described herein, including interest thereon. The acts complained of

herein occurred, at least in part, within four (4) years preceding the filing of the Complaint in this
 Action and/or this Class Action Complaint.

- Plaintiffs, those similarly situated and other members of the general public are 129. 3 further entitled to and do seek both a declaration that the above-described trade practices are 4 unfair, unlawful and/or fraudulent and injunctive relief restraining Defendants from engaging in 5 any of such deceptive, unfair and/or unlawful trade practices in the future. Such misconduct by 6 Defendants, unless and until enjoined and restrained by order of this Court, will continue to cause 7 injury in fact to the general public and the loss of money and property in that the Defendants will 8 continue to violate these California laws, unless specifically ordered to comply with the same. 9 This expectation of future violations will require current and future customers to repeatedly and 10 continuously seek legal redress in order to recoup monies paid to Defendants to which 11 Defendants are not entitled. Plaintiffs, those similarly situated and/or other consumers have no 12 other adequate remedy at law to ensure future compliance with the California Business and 13 Professions Code alleged to have been violated herein. 14
- 15 130. As a direct and proximate result of such actions, Plaintiffs, members of the general
 public and/or others similarly situated have suffered, and continue to suffer, injury in fact and
 have lost money and or property as a result of such deceptive, unfair and/or unlawful trade
 practices and unfair competition in an amount which will be proven at trial, but which is in excess
 of the jurisdictional minimum of this Court.

131. As a direct and proximate result of such actions, Defendants have enjoyed, and
continue to enjoy, significant financial gain in an amount which will be proven at trial, but which
is in excess of the jurisdictional minimum of this Court.

23

24

PLAINTIFFS' THIRD CAUSE OF ACTION

(Against The Defendants Except Dane Elec Corp. USA) (Breach of Contract)

25 132. Plaintiffs reallege and incorporate by this reference paragraphs 1 through 131,

²⁶ inclusive, of this Third Amended Class Action Complaint as if set forth herein.

- 27 133. Plaintiffs bring this cause of action against the Defendants on behalf of themselves
- 28

and Class Members who purchased a Flash Memory Card and/or Flash Memory Drive from those
 Defendants.

134. On or about August 20, 2001, Plaintiff Vroegh and Defendant P.N.Y entered into a 3 contract or agreement in which Plaintiff Vroegh agreed to purchase and Defendant P.N.Y agreed 4 to sell to Plaintiff Vroegh a Smart Media Card having a specified number of megabytes of file 5 storage capacity. The terms of this contract can be ascertained from the written documents 6 described in this Third Amended Class Action Complaint, in particular the representations on the 7 Smart Media Card packaging and on P.N.Y.'s website, as well as implied from P.N.Y.'s conduct 8 described herein, including its knowledge and use of the term "megabyte." Plaintiff Vroegh 9 performed all conditions, covenants and promises required under this contract. Specifically, on or 10 about August 20, 2001, Plaintiff Vroegh paid P.N.Y's retailer Best Buy \$49.99 plus tax. In 11 violation of the contract, P.N.Y provided Plaintiff Vroegh with a Smart Media Card that had 12 fewer megabytes of actual storage capacity than promised. 13

135. On or about December 03, 2002, Plaintiff Vroegh and Defendant SanDisk entered 14 into a contract or agreement in which Plaintiff Vroegh agreed to purchase and Defendant SanDisk 15 agreed to sell to Plaintiff Vroegh a 64MB SmartMedia Card having a specified number of 16 megabytes of file storage capacity. The terms of this contract can be ascertained from the written 17 documents described herein, including the representations on the Smart Media Card packaging 18 and on SanDisk's website, as well as implied from SanDisk's conduct described in this Third 19 Amended Class Action Complaint, in particular its knowledge and use of the term "megabyte." 20 Plaintiff Vroegh performed all conditions, covenants and promises required under this contract. 21 Specifically, on or about December 03, 2002, Plaintiff Vroegh paid SanDisk's retailer CompUSA 22 \$29.99 plus tax. In violation of the contract, SanDisk provided Plaintiff Vroegh with a 23 SmartMedia Card that had fewer megabytes of actual storage capacity than promised. 24 136. On or about July 15, 2002, Plaintiff Vroegh and Defendant Lexar entered into a 25

contract or agreement in which Plaintiff Vroegh agreed to purchase and Defendant Lexar agreed
to sell to Plaintiff Vroegh a CompactFlash Card having a specified number of megabytes of file
storage capacity. The terms of this contract can be ascertained from the written documents

described in this Third Amended Class Action Complaint, in particular the representations on the
CompactFlash Card packaging and on Lexar's website, as well as implied from Lexar's conduct
described herein, including its knowledge and use of the term "megabyte." Plaintiff Vroegh
performed all conditions, covenants and promises required under this contract. Specifically, on or
about July 15, 2002, Plaintiff Vroegh paid Lexar's retailer Ritz Camera \$54.99 plus tax. In
violation of the contract, Lexar provided Plaintiff Vroegh with a CompactFlash Card that had
fewer megabytes of actual storage capacity than promised.

- 137. On or about December 18, 2004, Plaintiff Vroegh and Defendant Kodak entered 8 into a contract or agreement in which Plaintiff Vroegh agreed to purchase and Defendant Kodak 9 agreed to sell to Plaintiff Vroegh a Kodak EasyShare CX7530 digital camera having a specified 10 number of megabytes of file storage capacity. The terms of this contract can be ascertained from 11 the written documents described in this Third Amended Class Action Complaint, in particular the 12 representations on the digital camera packaging and on Kodak's website, as well as implied from 13 Kodak's conduct described herein, including its knowledge and use of the term "megabyte." 14 Plaintiff Vroegh performed all conditions, covenants and promises required under this contract. 15 Specifically, on or about December 18, 2004, Plaintiff Vroegh paid Kodak's retailer Best Buy 16 \$279.99 plus tax. In violation of the contract, Kodak provided Plaintiff Vroegh with a digital 17 camera that had fewer megabytes of actual storage capacity than promised. 18
- 138. On or about January 13, 2005, Plaintiff Witthoff and Defendant FujiFilm entered 19 into a contract or agreement in which Plaintiff Witthoff agreed to purchase and Defendant 20 FujiFilm agreed to sell to Plaintiff Witthoff a FujiFilm USB Drive having a specified number of 21 megabytes of file storage capacity. The terms of this contract can be ascertained from the written 22 documents described in this Third Amended Class Action Complaint, in particular the 23 representations on the USB Drive packaging and on FujiFilm's website, as well as implied from 24 FujiFilm's conduct described herein, including its knowledge and use of the term "megabyte." 25 Plaintiff Witthoff performed all conditions, covenants and promises required under this contract. 26 Specifically, on or about January 13, 2005, Plaintiff Witthoff paid FujiFilm's retailer 27 Amazon.com \$93.87. In violation of the contract, FujiFilm provided Plaintiff Witthoff with a 28

1 digital camera that had fewer megabytes of actual storage capacity than promised.

-	
2	139. Each of the Class Members entered into a contract or agreement with the
3	Defendants to purchase Flash Memory Cards and/or Flash Memory Drives, which contracts
4	contained substantially the same terms and conditions as the contract described herein between
5	the Defendants and Plaintiffs. The terms and conditions of those contracts can be ascertained
6	from the written documents described in this Third Amended Class Action Complaint, in
7	particular the representations on the packaging of Flash Memory Cards and Flash Memory Drives
8	and on Defendants' website, as well as implied from Defendants' conduct described herein,
9	including their knowledge and use of the terms "megabyte" and "gigabyte." Each of the Class
10	Members performed all conditions, covenants and promises required under his or her contract.
11	Defendants violated the contracts by providing Class Members less storage capacity than
12	promised.
13	140. As a direct and proximate result of each of the breaches alleged herein, Plaintiffs
14	and Class Members have suffered, and continue to suffer, damages in an amount which will be
15	proven at trial, but which are in excess of the jurisdictional minimum of this Court.
16	PLAINTIFFS' FOURTH CAUSE OF ACTION
17	(Against The Defendants Except Dane Elec Corp. USA, Fuji Photo Film USA, Inc. and Kodak)
18	(Fraud, Deceit and/or Misrepresentation)
19	141. Plaintiffs reallege and incorporate by reference paragraphs 1 through 140,
20	inclusive, of this Third Amended Class Action Complaint as if set forth herein.
21	142. Plaintiffs bring this cause of action against the Defendants except Dane Elec Corp
22	USA, Fuji Photo Film USA, Inc. and Eastman Kodak Company on behalf of themselves and
23	Class Members who purchased a Flash Memory Card and/or Flash Memory Drive from those
24	Defendants.
25	143. On or about August 8, 2001, July 15, 2002, December 3, 2002, December 18,
26	2004, January 13, 2005 and on numerous occasions since and prior to those occasions,
27	Defendants have made misrepresentations regarding the file storage capacity of their Flash
28	Memory Cards and Flash Memory Drives as stated herein.

1 144. Defendants made such misrepresentations with full knowledge that such
 2 statements were, and are, in fact, fraudulent, misrepresentative, false and/or deceptive.

145. In addition to the affirmative misrepresentation and willful deception described in
the preceding paragraph, Defendants have intentionally deceived, and continue to deceive,
Plaintiffs and Class Members in order to profit as well as to compel them to purchase additional
Flash Memory Cards and Flash Memory Drives sold by them.

7 146. These aforementioned misrepresentations or fraudulent, deceptive, or false
8 statements and omissions concerned material facts that were essential to the analysis undertaken
9 by Plaintiffs and Class Members regarding whether to purchase a Flash Memory Card or Flash
10 Memory Drive.

11 147. Plaintiffs and Class Members would have acted differently had they not been
12 misled, but instead been informed of the true storage capacities of the Flash Memory Card or
13 Flash Memory Drive that he and they purchased.

Defendants each had a duty, including a fiduciary duty, to inform Plaintiffs and 148. 14 Class Members of the true storage capacity of the Flash Memory Cards and Flash Memory Drives 15 that they were offering for sale. In not so informing Plaintiffs and Class Members, Defendants 16 breached these duties. Defendants also gained financially from, and as a result of, their breaches. 17 149. By and through such fraudulent statements, misrepresentations and/or omissions, 18 Defendants intended to induce Plaintiffs and Class Members to alter their position to their injury. 19 150. 20 Plaintiffs and Class Members justifiably and reasonably relied on Defendants' misrepresentations, and, as such, were damaged by Defendants. 21 151. As a direct and proximate result of Defendants' misrepresentations, Plaintiffs and 22 Class Members at a minimum have suffered damages in an amount which at least equals the 23 value of the missing storage capacity, as described above. The exact amount of this amount will 24 be proven at trial, but is in excess of the jurisdictional minimum of this Court. 25 PLAINTIFFS' FIFTH CAUSE OF ACTION 26 (Against The Defendants Except Dane Elec Corp. USA) 27

(Violation of the Consumers Legal Remedies Act, California Civil Code § 1750, et seq.)

28

- 1 152. Plaintiffs reallege and incorporate by reference paragraphs 1 through 151, inclusive,
 2 of this Third Amended Class Action Complaint as set forth herein.
- 3 153. This cause of action is brought pursuant to the California Consumers Legal
 4 Remedies Act, California Civil Code § 1750, *et seq.* ("CLRA").
- 5 154. Defendants actions, representations and conduct has violated, and continues to
 6 violate the CLRA, because they extend to transactions that are intended to result, or which have
 7 resulted, in the sale or lease of goods or services to consumers.
- 8 155. Plaintiffs and other Class Members are "consumers" as that term is defined by the
 9 CLRA in California Civil Code § 1761(d).
- 10 156. The Flash Memory Card and/or Flash Memory Drive that Plaintiffs (and others
 11 similarly situated Class Members) purchased, and now own, from Defendants was a "good"
 12 within the meaning of California Civil Code § 1761(a).
- 157. By engaging in the actions, representations and conduct set forth in this Third 13 Amended Class Action Complaint, Defendants have violated, and continue to violate, § 14 1770(a)(5) of the CLRA by "[r]epresenting that [their] goods have sponsorship, approval, 15 characteristics, ingredients, uses, benefits, or quantities which they do not have." Additionally, 16 Defendants have violated the CLRA by representing that their products are of a particular 17 standard, quality, or grade that they are not, and by advertising, as set forth above, their products 18 with an intent to sell them with a certain accessible storage capacity when such products do not 19 provide that storage capacity to the end user or consumer. (See California Civil Code §§ 20 1770(a)(5) and (7), respectively.) 21
- 158. On the 9th and 15th of March 2004, December 21, 2004 and January 21, 2005,
 pursuant to California Civil Code § 1782(a), Plaintiffs served Defendants with notice regarding
 their unlawful practices and a demand to correct, repair, replace or otherwise rectify such
 unlawful practices. Defendants did not respond and/or otherwise take corrective action.
 Pursuant to California Civil Code § 1780(a)(3), Plaintiffs, on behalf of themselves
- and similarly situated Class Members, seeks compensatory damages, punitive damages and
- 28 restitution of any ill-gotten gains due to Defendants' acts and practices. Plaintiffs also request

that this Court award them their costs and reasonable attorneys' fees pursuant to California Civil
Code § 1780(d). Plaintiffs further requests that this Court enjoin Defendants from continuing to
employ the unlawful methods, acts and practices alleged herein pursuant to California Civil Code
§ 1780(a)(2). If Defendants are not restrained from engaging in these types of practices in the
future, Plaintiffs, Class Members and other members of the general public will continue to suffer
harm.

7 **VIII.**

I. PRAYER FOR RELIEF

8	WHEREFORE, Plaintiffs pray for judgment as follows:
9	A. On Causes of Action Number 1 and 2 against all Defendants:
10	1. For restitution and disgorgement pursuant to, without limitation, the
11	California Business & Professions Code §§ 17200, et seq. and
12	17500, <i>et seq</i> ; and
13	2. For injunctive relief pursuant to, without limitation, the California
14	Business & Professions Code §§ 17200, et seq and 17500, et seq;
15	B. On Cause of Action Number 3 against Defendants named therein: An
16	award of compensatory damages, the amount of which is to be determined
17	at trial;
18	C. On Cause of Action Number 4 against Defendants named therein:
19	1. An award of compensatory damages, the amount of which is to be
20	determined at trial; and
21	2. For punitive damages according to proof;
22	D. On Cause of Action Number 5 against Defendants named therein:
23	1. For the greater of actual or compensatory damages according to
24	proof or \$1000 pursuant to California Civil Code section 1780; and
25	2. For restitution and injunctive relief pursuant to California Civil
26	Code section 1780; and
27	3. For punitive damages according to proof pursuant to California
28	Civil Code section 1780; and

1	4. For any Class Member who is a senior citizen or a disabled person,	
2	an award of five thousand dollars (\$5,000);	
3	E. On All causes of action against all Defendants:	
4	1. For reasonable attorneys' fees according to proof pursuant to,	
5	without limitation, the California Code of Civil Procedure § 1021.5;	
6	and	
7	2. For costs of suit incurred; and	
8	3. For such further relief as this Court may deem just and proper.	
9		
10	Dated: March 9, 2005	
11		
12	Respectfully Submitted,	
13	ADAM GUTRIDE SETH A. SAFIER	
14	SETHA, SATIER	
15		
16	Seth A. Safier, Esq.	
17	Attorneys for Plaintiffs	
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EXHIBIT 1

re and new!!! The Combo 9in4 reader/writer which Chadse heighguage...





/ Home page

(The group

Memory activity

/ Financial information

Press

- **Dane-Elec**
- **Configurator**

/ Products

- DRAM Memory
- FLASH Memory
- Readers, adapters and memory keys

(Xs Online Services

Search

Quick search...

Advanced Search

Support



Xs CARD

THE DANE-ELEC MEMORY FLASH CARDS

The new Xs type I memory cards with 128MB. 256MB. 512MB and 1GB capacity (standard thickness compatible with digital cameras using $CompactFlash^{TM}$ cards) equipped with NAND technology now are available. As their name implies, these cards are fast enough to allow all professional and amateur photographers to take instant shots since the cards can write data at 22X. In the same way, these cards will enable written date to be read at a transfer rate of 44X. Other speeds will become available as Flash technology evolves.



SMART MEDIA

The extremely small (the third of a credit card) Dane-Elec SmartMedia TM memory cards are used in all portables, such as voice recorders, walkman MP3 and other digital devices. Of a storage capacity in perpetual evolution (to date of 16 to 128MB), Dane-Elec SmartMedia TM memory cards will help you to quickly transfer your data simply and without deterioration of your information in time.





COMPACT FLASH

Dane-Elec 's CompactFlash TM card is a non-volatile memory extension. This card is generally designed for digital cameras, palmtops and personal digital assistant, cellular phones, audio and voice recorders, MP3 player, notebooks via a PCMCIA adapter and other digital applications.





Ok

MULTI MEDIA CARD

The extremely small (the quarter of a credit card) Dane-Elec MultiMedia TM memory card is used in virtually all portables, such as audio recorders, walkmans MP3, mobile



SECURE DIGITAL

The physical characteristics of these cards are their weight. 0.07 ounces, their size, one sixth of a credit card (32 mm x 24 mm x 2.1 mm) particularly lends them to communicating mobile markets: personal assistants/PDA, MP3 drivers, Mobile phones, also to digital equipment such as cameras and videos. DANE-ELEC's Secure Digital TM range comprises 6 cards with 16, 32, 64, 128, 256 and 512 MB of memory capacity. Their rate of data-transfer varies between 2 and 4 MB per second. Compared to the Multi Media Card TM composed of 7 connexion pins, the Secure Digital TM card is composed of 9 connexion pins. This new organisation allows faster 1 11 41

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PC100-PC133 SDRAM Unbuffered DIMM MODULES

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The DANE-ELEC PC100/PC133 SDRAM Unbuffered DIMM are high speed 3.3-volt Synchronous DRAM Modules composed sixteen 8Mx8 bit Synchronous DRAMs in 54-pin TSOPII and 8-pin TSSOP 2K bit

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DIMM

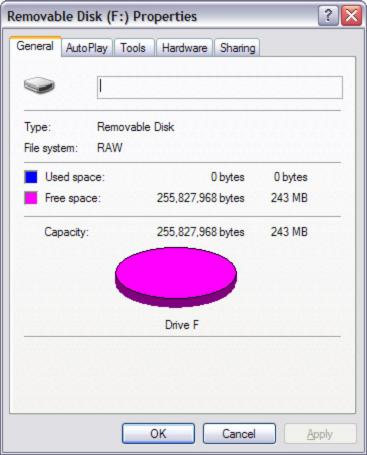
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Part #: DA-MMC128 Retail Price: \$79.99 Our Price: \$46.95

Dane-Elec 128mb MultiMediaTM Cards (MMC)

The Dane-Elec MultimediaTM Card is highly integrated flash memory with serial and random access capability. MultimediaTM Card is very small, removable flash storage that is an ideal solution for portable battery powered devices such as audio players, organizers, palmtops, electronic books, encyclopedia and dictionaries.

Using very effective data compression schemes such as MPEG, the MultiMedia[™] Card will deliver enough capacity for all kinds of multimedia data: software/programs, text, music, speech, images, video etc...

Main Features:

- ¤ 32, 64, 128 MB capacity
- ¤ Fast download time
- ¤ Lifetime guarantee
- ¤ Low power consumption
- × Wide operating range for temperature

MultiMedia[™] Card Sytem Standard Compatibility:

- × System specification version 2.11 compliant
 × SPI Interface supported
 × Block and partial block read supported (Command classes 0 and 2)
 × Stream read supported (Command class1)
 × Block write and erase supported (Command classes 4 and 5)
 × Group write protection (Command classes 6)
 × Stream write suppoted (Command classes 3)
 × Password data access protection
 × Small erase block size of 512 bytes, tagged erase supported
 × Read block size programmable between 1 and 2048 bytes
- ¤ Up to 100,000 erase cycles per block



0.5

¤ Vcc =2.7 V to 3.6 V operation voltage required × No external programming voltage required ¤ Damage free powered card insertion and removal ¤ 4kV ESD protection



MultiMedia[™] Card Specifications

Part Number	Capacity (MB)
DA-MMC-128	128
DA-MMC-64	64
DA-MMC-32	32
DA-MMC-16	16

High Speed Serial Interface with Random Access:

¤ Read Speed: sustained: 13.7 Mbits/s (multi-block read) / burst (one block): 20 Mbit/s ¤ Write Speed: sustained: 3.2 Mbits/s (multi-block write to pre-erased sectors) burst (one block): 20 Mbit/s ¤ Up to 10 stacked card (at 20 MHz, Vcc=2.7 to 3.6V) ¤ Access time: 256 μs (max) (at 20 MHz, Vcc=2.7 to 3.6V, random byte access (Typical case without BCC error correction)) Low Power Dissipation ¤ High Speed: 80 mW (max) (at 20 MHz, Vcc=2.7 V) ¤ Power save: 0.1 mW (max) (at 0 Hz, Vcc=2.7 V (in stby state))

Partial List of Compatible Devices:

AIWA MM-FX500 AIWA MM-FX500 MP3 Player Recorder ATLM eTman 310 Player ATLM eTman 320 AudioVox MPDJ Series MP-AHA-FD770 1000 AudioVox MPDJ Series MP-MF-FD330 2000 AudioVox MPDJ Series MP-MF-FD340 3000 MP3 Phone Baromtec Music Man BMP-1000 Baromtec Music Man MDM-H2 C-ONE Tech mpWOW Casio MP3 Watch WMP-1V MIC Teen Casio Handheld PCs Casio EM-500

LG Electronics A1F MP3 LG Electronics A2F MP3 LG Electronics MP Free LG Electronics MP Free LG Electronics MP Free LG Electronics MP-Cion MacPower MP3-GO Maycom Merit MP-100F Maycom Merit MP-90 MC&T MP3 Player Milletech MP9 MPMan MP-M40

Casio Cassiopeia EM-500 MPMan MP-M41 Pocket PC mPride MP3 Player CMC MP3 Jumper Multiport Zuum3 Compaq iPAQ PA-1 My Music DM701 Cowon Systems MP3 Player Namsung Mp5th Ave. Daiyoo Electronics MPECHO Nike PSA Play 120 DY-1000 Nokia 9110 Communicator **Daiyoo Electronics MPECHO** Nokia 9210 Communicator DY-2000 Opener's Hanzoom DMP-**Digitalway MPIO** 2000 Digitra Systems MP Trio Palm 500 Divacom MOMO D-210M Palm 505 **DNA Pocket Digital Audio** Palm 515 MP3 Player Panasonic NC-C5 DnC Digital Audio Player Panasonic NV-C3 DoCoMo PocketPet e-mail Panasonic PV-DV200 Device Panasonic PV-DV600 DSC M-Any MR-100 Panasonic PV-DV800 DSC POP3 Panasonic PV-DC3000J Eblitz Audio Labs ET310 ipalm Digital Camera Eblitz Audio Labs ET320 Panasonic NV-MPXS Eblitz Audio Labs ET350 Printer PenMan NETTI PN-2000 Eiger 2000 Ericsson HPM-10 MP3 Plug-in Pine Labs D-music PMA Fast Systems MP Player 6400 Pontis SP-503 Franklin eBookman eBook FUBU Y2G Audio Player Pontis SP-504 Fujitsu CuPlay FMP322MU RCA k@Zoo Gaon Mutizen RCA/Thomson K@zoo Gaon Titi@ **RFC** JazPiper Grundig Mpaxx **Rockford Fosgate** Haitai Digital Audio Player **RFXMP3.8** Changer HanGo Mpride HG-300FM Saehan MPMan MP-M40 Hanyang MP3+CarAmp Saehan MPMan MP-M41 Hyun Won DDR Sanyo SSP-PD7 Hyun Won Micro Scott Digital Audio Player I&C MP Master AK-11W Sharp VL-FD3 I&C MP Master IM-100 Sharp VL-MR1 Siemens SL45 WAP I&C MP Master IM-110M I&C MP Master IM-150M Phone SK Global EncoDeco ED-I&C MP Master IM-300FM I&C MP Master IM-320FM H10 I&C MP Master IM-360FM Sonus (Focus) MP-3 I&C MP Master IM-620H Player Sphere OmniPlayer Headset Standard Telecom NiXXo I-Jam IJ-100 MP3 Phone I-Jam Win-JAM WMA Player Innogear MiniJam MP3 Player Tawkwang MP3 Player for Handspring ED/HO IO-Data Hyper-Hyde Tecpoints itune JVC DV2000 Digital Video **Telian MPDJ Series** Thomson VMD10 Camcorder JVC GR-DVL 700 Thomson VMD20 JVC GR-DVL 815U Thomson VMD9 Unitech Juli UP-303 JVC GR-DVL 9800U JVC GR-DVM 70U Unitech Juli UP-304 Unitech Juli UP-305 JVC GR-DVP3

JVC GR-DVX7 DVC KB Gear JAMC@M 3.0 Camera Kedcom MP300 Kedcom MP500 Kodak DX3215 Kodak DX3700 Konica KD-300Z Koreamedia MP-CAP KS Communications MP Player

Unitech ROME UP-301 Wooju Tami WJ-2000 Wooju Tami WJ-2100 Yashica Finecam S3 Yelo DMP32 Yelo DMP64VR ZipAudio ZMP-3000 MP3 Player ZipLabs ZAPPEE MP3 Player ZipMan ZMP-1000 MP3 Player

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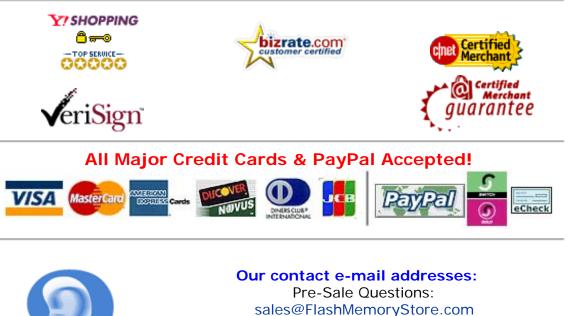
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Questions regarding compatibility?

We can help! If you are unsure what memory card you need to purchase to upgrade your MP3 Player, Digital Camera, PDA or other device, please e-mail tech@FlashMemoryStore.com for an answer!

Remember: All our products sold come with a 30-day money back guarantee -AND- a **LIFETIME warranty!** If you need to return your product, swap it for another card, or if you simply changed your mind, please e-mail <u>RMA@FlashMemoryStore.com</u> to obtain an RMA number and instructions.



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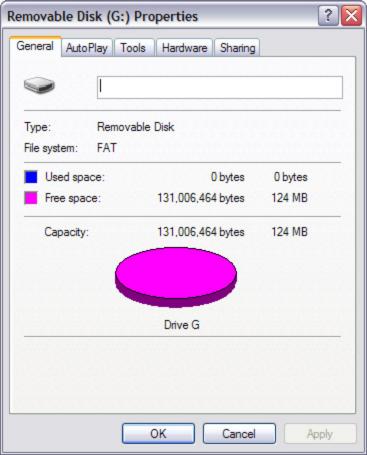
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🗐 FUJIFILM 🏏

🕾 FUJIFILM 🗡

512MB

128_{MB}

S FUJIFILM

32 MB

🖭 FUJIFILM 🗡 Plug & Play

w Transfers Files

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TEUJIFILM Y

USB Drive 2.0 High Speed 128 MB, 256 MB, 512 MB, 1GB

USB Drive 1.1 Basic Speed 32MB, 64MB

Store your world in the palm of your hand!

The Fujifilm USB Drive lets you take all your important stuff with you no matter where you go. Big enough to hold your photos, documents, presentations, MP3s, videos and more yet small enough to fit in your pocket.

Best of all it's easy to use. Just plug it into any USB port and you're ready to go; no software, batteries or electricity is required. It's a disk and drive all-in-one so you can easily take your life from home to work to school... or wherever!

> Safely store all your PC, Mac and Linux files on your Fujifilm USB Drive. When your Fujifilm USB Drive is full, just delete the files or back them up onto any of Fujifilm's high performance media such as Zip disks, CDs or DVD discs.

Big Capacity, Small Drive:

The Fujifilm USB Drive is a revolutionary way to save, share and store files. Big enough to hold hundreds of photos, documents, presentations, MP3s and more, yet small enough to fit in the palm of your hand. It's a disk and drive all-in-one, so transporting files from home to school to work or wherever...is now easier than ever.

Key Selling Points:

- USB 2.0 Read: 4MB/sec, Write: 3MB/sec
 USB 1.1 Read: 1MB/sec, Write: 0.85MB/sec
- Powerful: Up to 1GB of storage capacity
- Simple: Plug & Play
- Multi Platform: PC / Mac / Linux
- Convenient: No setup, software, cables, batteries or external power (1)(2)
- Durable: Secure Plastic Casing to keep important data safe
- Backward compatible: USB 2.0 is backward compatible with USB 1.1 connections
- Password protect: Save confidential files in a separate, private area
- Fun: Easy to store and share photos, data, music and video

Simple Outside, Smart Inside:

The Fujifilm USB Drive is simple to use. Take it anywhere. Plug it into any USB port and it's ready to go - a computer instantly recognizes it as a removable drive. No software (1)(2), cables, batteries, or electricity is required, making it the most convenient removable storage solution on the market today. Plus, with cross-platform compatibility and transfer rates up to 4 MB/sec, files can be transferred from a PC to a Macintosh in a flash. With Fujifilm's Sentinel security software, confidential files can be saved in a private, passwordprotected area. Very smart.

Powerful:

Despite its small size and light weight, the Fujifilm USB Drive packs a lot of power. And it's available in 6 capacities!

Plug & Play:

Remove Cap...Insert Drive! It's as easy as that.

For more information, please call 1-800-488-FUJI or visit us at www.fujifilmmediasource.com



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Specifica	tions	USB 1.1		USB 2.0						
USB Drive Di Specification	stribution Box Is	32MB - 1.1 Box	64MB - 1.1 Box	128MB - 2.0 Box	256 MB - 2.0 Box	512MB - 2.0 Box	1GB - 2.0 Box			
	Product Code	25910332	25910364	25910348	25910346	25910342	25910310			
BASIC SPECIFICATIONS	UPC Code	0-74101-76332-4	0-74101-76364-5	0-74101-76348-5	0-74101-76346-1	0-74101-76342-3	0-74101-76310-2			
	Customer Order Quantity	5	5	5	5	5	5			
	Unit Length	5.25"	5.25"	5.25"	5.25"	5.25"	5.25"			
UNIT	Unit Width	1.375"	1.375"	1.375"	1.375"	1.375"	1.375"			
INFORMATION	Unit Height	6.69"	6.69"	6.69"	6.69"	6.69"	6.69"			
	Unit Weight	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.			
	Unit Cubic Ft	0.028'	0.028'	0.028'	0.028'	0.028'	0.028'			
SUB CARTON	Units Per Inner Case	None	None	None	None	None	None			
	Master Carton UPC	200-74101-76332-8	200-74101-76364-9	200-74101-76348-9	200-74101-76346-5	200-74101-76342-7	200-74101-76310-			
MASTER	Master Carton Length	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"			
CARTON /	Master Carton Width	7.25"	7.25"	7.25"	7.25"	7.25"	7.25"			
OUTSIDE CASE	Master Carton Height	6.875"	6.875"	6.875"	6.875"	6.875"	6.875"			
	Master Carton Weight	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.			
	Master Carton Cubic Ft.	0.16'	0.16'	0.16'	0.16'	0.16'	0.16'			
	Units Per Master Carton	5	5	5	5	5	5			

USB Drive Re Specification	etail Clamshell Is	32MB - 1.1 Clamshell	64MB - 1.1 Clamshell	128MB - 2.0 Clamshell	256 MB - 2.0 Clamshell	512MB - 2.0 Clamshell	1GB - 2.0 Clamshell
B 4 616	Product Code	25910432	25910464	25910428	25910456	25910412	25910010
BASIC SPECIFICATIONS	UPC Code	0-74101-76032-3	0-74101-76064-4	0-74101-76428-4	0-74101-76456-7	0-74101-76412-3	0-74101-76010-1
	Customer Order Quantity	5	5	5	5	5	5
UNIT	Unit Length	6.00"	6.00"	6.00"	6.00"	6.00"	6.00"
	Unit Width	1.75"	1.75"	1.75"	1.75"	1.75"	1.75"
INFORMATION	Unit Height	8.00"	8.00"	8.00"	8.00"	8.00"	8.00"
	Unit Weight	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.
	Unit Cubic Ft	0.049'	0.049'	0.049'	0.049'	0.049'	0.049'
SUB CARTON	Units Per Inner Case	None	None	None	None	None	None
	Master Carton UPC	200-74101-76032-7	200-74101-76064-8	200-74101-76428-8	200-74101-76456-1	200-74101-76412-7	200-74101-76010-5
MASTER	Master Carton Length	7.25"	7.25"	7.25"	7.25"	7.25"	7.25"
CARTON/	Master Carton Width	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"
OUTSIDE CASE	Master Carton Height	6.875"	6.875"	6.875"	6.875"	6.875"	6.875"
	Master Carton Weight	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.
	Master Carton Cubic Ft.	0.16'	0.16'	0.16'	0.16'	0.16'	0.16'
	Units Per Master Carton	5	5	5	5	5	5

Operating Systems

Fujifilm USB 2.0 - In high-speed (USB 2.0): Windows 2000, Windows ME, Windows XP, Mac OS 9.0 & higher, Linux 2.4.0 In full-speed (USB 1.1): Windows 98 Second Edition (1) Fujifilm USB 1.1 - Windows 98 (1) Second Edition, Windows 2000, Windows ME, Windows XP, Mac OS 8.6 (2), Mac OS 9.0 & higher, Linux 2.4.0. (1) Driver required for Windows 98

(2) Mac OS 8.6 USB Mass Storage Device driver/patch required

Note: A high-speed USB 2.0 driver is required for high-speed operation. Otherwise, Fujifilm USB 2.0 employs full-speed operation.

USB2.0 703



The Fujifilm USB Drive operates as a secure, reliable, r disk, using a standard Universal Serial Bus (USB) devic interface. A computer immediately detects it, recognizi supplementary removable disk and assigning it a drive

The Fujifilm USB Drive supports complete and instanta plug and play interoperability on the latest Windows $\ensuremath{\mathbb{B}}$, and Linux $\ensuremath{\mathbb{R}}$ operating systems.*

Since the Fujifilm USB Drive has its own central proces (CPU), it can directly support and run multiple applicat crossing the boundaries between a PC and a Macintosh

Fujifilm offers both 1.1 and 2.0 USB Drives. The 1.1 Ut or Basic Speed USB Drive, complies with the original specification developed for USB and offers data transfe 1MB/s. The 2.0 USB Drive, also known as a High Speer Drive, contains a "next-generation" peripheral connecti enables increased data transfer rates, up to 4MB/s, as backward compatibility with existing USB 1.1 ports. Fu USB Drives are available in 32MB and 64MB capacities Fujifilm 2.0 USB Drives are available in 128MB, 256ME and 1GB capacities.

Product	Capacity	Read Speed	Write Speed
Fujifilm 1.1 USB Drive	32MB, 64MB	1MB/Sec	0.85ME Sec
Fujifilm USB 2.0 Drive	128MB-1GB	4MB/Sec	3MB/S

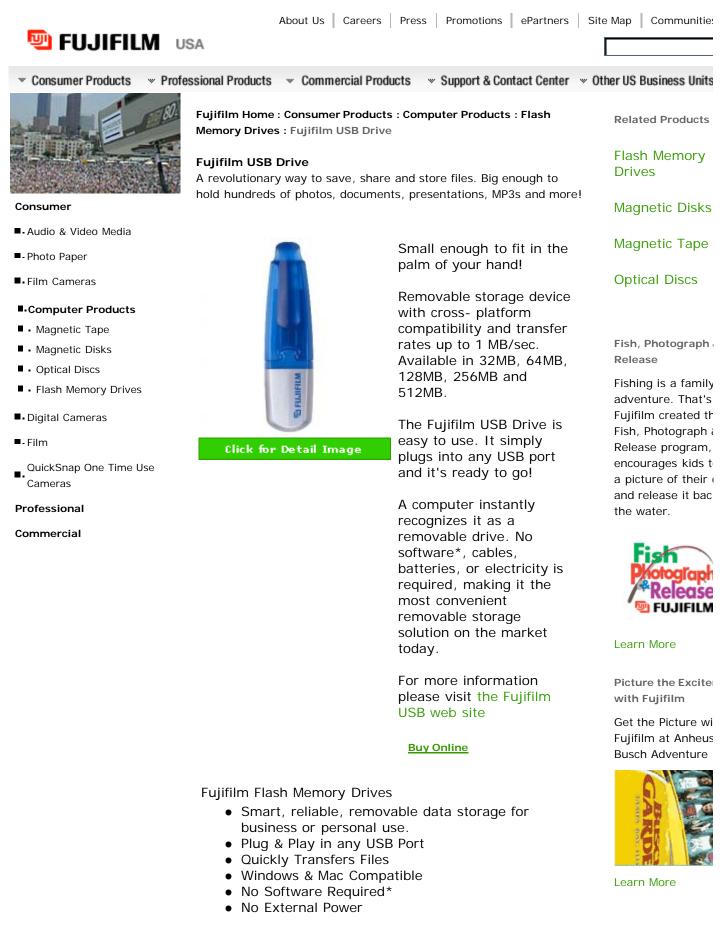
Each Fujifilm USB Drive is guaranteed by our Lifetime \

> Download Product Information Sheet... (PDF format, requires Acrobat Reader)

* Driver required for Windows 98. USB Mass Storage E driver/patch required Mac OS 8.6.

HOME I TELL A FRIEND I CONTACT





Page 2

• Available in 32, 64, 128, 256 and 512MB

*Windows 98 driver software included.

Manuals & Brochures Fujifilm USB Drive Specifications Sheet

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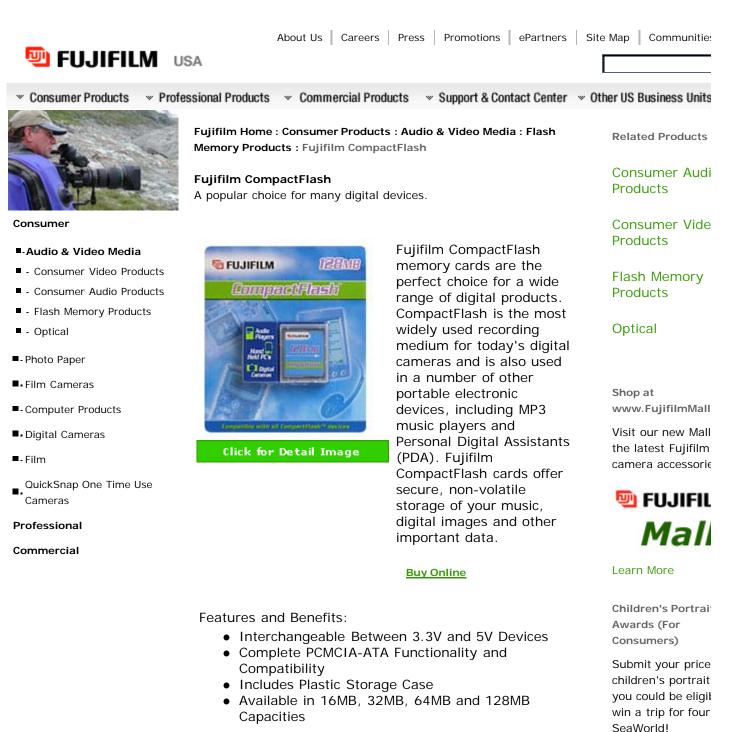
Q1 Camera - Simp Cool

A hot fashion acce in four cool new c that's fun and eas use!



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Q1 Camera - Simp Cool

A hot fashion acce in four cool new c that's fun and eas use!



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			©	105 Fuj	i Photo	Film	U.S.A., Ir	пс. <u>Т</u>	erms and	Con	ditions	Privacy Sta	tement			

FUJIFILM

GB

DMB

4 MB

🗐 FUJIFILM 🏏

🕾 FUJIFILM 🗡

512MB

128_{MB}

S FUJIFILM

32 MB

🖭 FUJIFILM 🗡 Plug & Play

w Transfers Files

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USB Drive 2.0 High Speed 128 MB, 256 MB, 512 MB, 1GB

USB Drive 1.1 Basic Speed 32MB, 64MB

Store your world in the palm of your hand!

The Fujifilm USB Drive lets you take all your important stuff with you no matter where you go. Big enough to hold your photos, documents, presentations, MP3s, videos and more yet small enough to fit in your pocket.

Best of all it's easy to use. Just plug it into any USB port and you're ready to go; no software, batteries or electricity is required. It's a disk and drive all-in-one so you can easily take your life from home to work to school... or wherever!

> Safely store all your PC, Mac and Linux files on your Fujifilm USB Drive. When your Fujifilm USB Drive is full, just delete the files or back them up onto any of Fujifilm's high performance media such as Zip disks, CDs or DVD discs.

Big Capacity, Small Drive:

The Fujifilm USB Drive is a revolutionary way to save, share and store files. Big enough to hold hundreds of photos, documents, presentations, MP3s and more, yet small enough to fit in the palm of your hand. It's a disk and drive all-in-one, so transporting files from home to school to work or wherever...is now easier than ever.

Key Selling Points:

- USB 2.0 Read: 4MB/sec, Write: 3MB/sec
 USB 1.1 Read: 1MB/sec, Write: 0.85MB/sec
- Powerful: Up to 1GB of storage capacity
- Simple: Plug & Play
- Multi Platform: PC / Mac / Linux
- Convenient: No setup, software, cables, batteries or external power (1)(2)
- Durable: Secure Plastic Casing to keep important data safe
- Backward compatible: USB 2.0 is backward compatible with USB 1.1 connections
- Password protect: Save confidential files in a separate, private area
- Fun: Easy to store and share photos, data, music and video

Simple Outside, Smart Inside:

The Fujifilm USB Drive is simple to use. Take it anywhere. Plug it into any USB port and it's ready to go - a computer instantly recognizes it as a removable drive. No software (1)(2), cables, batteries, or electricity is required, making it the most convenient removable storage solution on the market today. Plus, with cross-platform compatibility and transfer rates up to 4 MB/sec, files can be transferred from a PC to a Macintosh in a flash. With Fujifilm's Sentinel security software, confidential files can be saved in a private, passwordprotected area. Very smart.

Powerful:

Despite its small size and light weight, the Fujifilm USB Drive packs a lot of power. And it's available in 6 capacities!

Plug & Play:

Remove Cap...Insert Drive! It's as easy as that.

For more information, please call 1-800-488-FUJI or visit us at www.fujifilmmediasource.com



Fuji Photo Film U.S.A., Inc. 200 Summit Lake Drive Valhalla, NY 10595-1356 1-800-488-FUJI www.fujifilmmediasource.com

©2002 Fuji Photo Film U.S.A., Inc.



Specifica	tions	USB 1.1		USB 2.0						
USB Drive Di Specification	stribution Box Is	32MB - 1.1 Box	64MB - 1.1 Box	128MB - 2.0 Box	256 MB - 2.0 Box	512MB - 2.0 Box	1GB - 2.0 Box			
	Product Code	25910332	25910364	25910348	25910346	25910342	25910310			
BASIC SPECIFICATIONS	UPC Code	0-74101-76332-4	0-74101-76364-5	0-74101-76348-5	0-74101-76346-1	0-74101-76342-3	0-74101-76310-2			
	Customer Order Quantity	5	5	5	5	5	5			
	Unit Length	5.25"	5.25"	5.25"	5.25"	5.25"	5.25"			
UNIT	Unit Width	1.375"	1.375"	1.375"	1.375"	1.375"	1.375"			
INFORMATION	Unit Height	6.69"	6.69"	6.69"	6.69"	6.69"	6.69"			
	Unit Weight	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.			
	Unit Cubic Ft	0.028'	0.028'	0.028'	0.028'	0.028'	0.028'			
SUB CARTON	Units Per Inner Case	None	None	None	None	None	None			
	Master Carton UPC	200-74101-76332-8	200-74101-76364-9	200-74101-76348-9	200-74101-76346-5	200-74101-76342-7	200-74101-76310-			
MASTER	Master Carton Length	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"			
CARTON /	Master Carton Width	7.25"	7.25"	7.25"	7.25"	7.25"	7.25"			
OUTSIDE CASE	Master Carton Height	6.875"	6.875"	6.875"	6.875"	6.875"	6.875"			
	Master Carton Weight	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.			
	Master Carton Cubic Ft.	0.16'	0.16'	0.16'	0.16'	0.16'	0.16'			
	Units Per Master Carton	5	5	5	5	5	5			

USB Drive Re Specification	etail Clamshell Is	32MB - 1.1 Clamshell	64MB - 1.1 Clamshell	128MB - 2.0 Clamshell	256 MB - 2.0 Clamshell	512MB - 2.0 Clamshell	1GB - 2.0 Clamshell
B 4 616	Product Code	25910432	25910464	25910428	25910456	25910412	25910010
BASIC SPECIFICATIONS	UPC Code	0-74101-76032-3	0-74101-76064-4	0-74101-76428-4	0-74101-76456-7	0-74101-76412-3	0-74101-76010-1
	Customer Order Quantity	5	5	5	5	5	5
UNIT	Unit Length	6.00"	6.00"	6.00"	6.00"	6.00"	6.00"
	Unit Width	1.75"	1.75"	1.75"	1.75"	1.75"	1.75"
INFORMATION	Unit Height	8.00"	8.00"	8.00"	8.00"	8.00"	8.00"
	Unit Weight	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.	0.3 lbs.
	Unit Cubic Ft	0.049'	0.049'	0.049'	0.049'	0.049'	0.049'
SUB CARTON	Units Per Inner Case	None	None	None	None	None	None
	Master Carton UPC	200-74101-76032-7	200-74101-76064-8	200-74101-76428-8	200-74101-76456-1	200-74101-76412-7	200-74101-76010-5
MASTER	Master Carton Length	7.25"	7.25"	7.25"	7.25"	7.25"	7.25"
CARTON/	Master Carton Width	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"
OUTSIDE CASE	Master Carton Height	6.875"	6.875"	6.875"	6.875"	6.875"	6.875"
	Master Carton Weight	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.	1.3 lbs.
	Master Carton Cubic Ft.	0.16'	0.16'	0.16'	0.16'	0.16'	0.16'
	Units Per Master Carton	5	5	5	5	5	5

Operating Systems

Fujifilm USB 2.0 - In high-speed (USB 2.0): Windows 2000, Windows ME, Windows XP, Mac OS 9.0 & higher, Linux 2.4.0 In full-speed (USB 1.1): Windows 98 Second Edition (1) Fujifilm USB 1.1 - Windows 98 (1) Second Edition, Windows 2000, Windows ME, Windows XP, Mac OS 8.6 (2), Mac OS 9.0 & higher, Linux 2.4.0. (1) Driver required for Windows 98

(2) Mac OS 8.6 USB Mass Storage Device driver/patch required

Note: A high-speed USB 2.0 driver is required for high-speed operation. Otherwise, Fujifilm USB 2.0 employs full-speed operation.

USB2.0 703

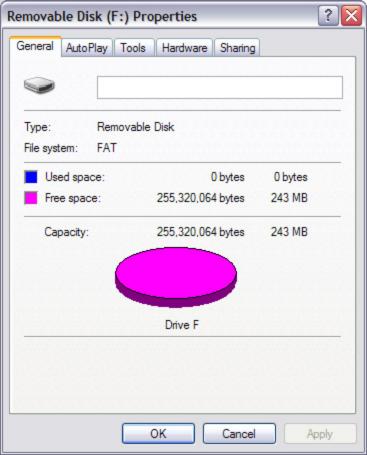


EXHIBIT 3

Share Moments. Share Life. Digital Learning Center

Μ

Return to DLC Main



Chapter II, Digital Learning Center Glossary of Terms: Section M Glossary

Terms	Ferms in this chapter							
<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>					
<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>					
Ī	<u>J</u>	<u>K</u>	<u>L</u>					
М	<u>N</u>	<u>0</u>	<u>P</u>					
Q	<u>R</u>	<u>S</u>	<u>T</u>					
<u>U</u>	<u>V</u> _	W	<u>X</u>					
<u>Y</u>	Z							
Nu	Numeric Terms							

Chapters in this book

Chapter I FAQs

Chapter II Glossary

Marquee The outline of dots created by the selection tool on an image when an operator is performing a task such as cropping,

cutting, drawing a mask, etc. Mask

> A defined area used to limit the effect of image-editing operations to certain regions of the image. In an electronic imaging system, masks are drawn manually (with a stylus or mouse) or created automatically--keyed to specific density levels or hue, saturation and luminance values in the image. It is similar to photographic lith masking in an enlarger.

Megabyte (MB)

An amount of computer memory consisting of about one million bytes. The actual value is 1,048,576 bytes.

Megapixel

One million pixels or more. The more pixels that exist in an image the higher the resolution and therefore the greater the quality of the image. Many new Kodak cameras are equipped with megapixel sensors.

Modem (MODulator/DEModulator)

A device that converts digital computer data into signals for transmission over telephone lines.

Moire

A visible pattern that occurs when one or more halftone screens are misregistered in a color image.

Morphing

A special effect used in motion pictures and video to produce a smooth transformation from one object or shape to another.

Multimedia

This involves the combination of two or more media into a single presentation. For example, combining video, audio, photos, graphics and/or animations into a presentation.

Next Letter...

Return to Chapter Start... Return to Book Start... Return to DLC Main...



KODAK: Digital Learning Center: Book 4: Chapter 2: Glossary



odak Share Moments. Share Life. Digital Learning Center

Return to DLC Main



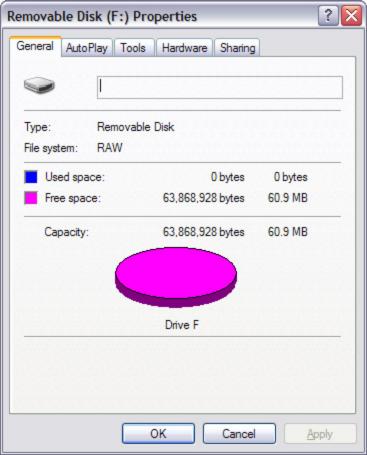
Chapter II, Digital Learning Center Glossary of Terms: Section G Glossary

STORES .

Terms in this chapter							
<u>A B C D</u>	G						
<u>E</u> <u>F</u> G <u>H</u>							
<u>I J K L</u>	GIF File Format Stands for Graphic Interchange Format, a raster oriented						
<u>M N O P</u>	graphic file format developed by CompuServe to allow						
<u>Q</u> <u>R</u> <u>S</u> <u>T</u>	exchange of image files across multiple platforms. Gigabyte (GB)						
<u>U V W X</u>	A measure of computer memory or disk space consisting of						
<u>Y</u> <u>Z</u>	about one thousand million bytes (a thousand <u>megabytes</u>). The actual value is 1,073,741,824 bytes (1024 megabytes).						
Numeric Terms	Gray Level The brightness of a pixel. The value associated with a pixel representing it's lightness from black to white. Usually defined as a value from 0 to 255, with 0 being black and 255 being white.						
Chapters in this book							
Chapter I							
<u>FAQs</u>	Gray Scale A term used to describe an image containing shades of gray						
Chapter II Glossary	as well as black and white.						
	Next Letter						

Kodak

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United States (<u>change c</u>	ountry / langua					Join / Login Infoimaging			
Consumer Photography	Pro Photog	grapher / Lab Cinematography		Medical & Dental		Business & G	overnment	Corporate	
	► Products	Support Cent				eat Pictures	Contact Us		
		KODAK SD [™] 256 MB Card Print 🖶 E-mail 🖂							
Digital Cameras									
<u>Accessories</u> <u>- FASYSUARE Decke</u>									
EASYSHARE Docks				-					
 Memory & Storage SD[™] Cards 						Introducir	ng KODAK S	SD™ Cards –	the fastest
■ SD [™] 512 MB Card		growing memory card format in the industry. SD cards are compatible with a wide range of							
SD [™] 256 MB Card			SD Ca	and L					
■ SD [™] 128 MB Card			SD Ca					ing digital stil levisions, MF	
■ SD [™] 64 MB Card			25	G MB				A's. They also	
MultiMedia Cards		advanced features such as data protection							
■ <u>COMPACTFLASH™ Cards</u>						and incre	ased capaci	ty.	
Readers/Writers			5	14					
Power Options						Buy On	line		
Accessory Kits						(buy on			
Lenses									
Gear		-	Item 8121337						
Online Printing Services		• MSRP (US\$) \$94.99							
Printer and Camera	Docks								
 Inkjet Paper Software 									
 Picture Maker 									
Picture CD		Featur	20						
 Single-Use Cameras 		i catur	63						
Film & Processing		 Compatible with all MACINTOSH and MICROSOFT WINDOWS Systems 							
Promotions		 Works with SD[™] Card Readers and all laptops (adapter required) 							
			year limited warra				1,		
Prints	KODAK straight								
from your memory card!		Compatibility							
Learn more		This accessory works with the following products:							
			_S420						
Printing at		• DX3700							
home just		 CX7300 DX6440 							
got better		 DX0440 DX4330 							
Discover KODAK		• CX4210							
Inkjet Papers		• CX7220							
		 CX6330 DX4530 							
C Deleted Devilents		 DX4530 LS753 							
Selated Products		• LS443							
KODAK EASYSHARE		• LS633							
Digital Cameras		 DX3215 CX6230 							
KODAK EASYSHA Softwara	RE		CX6230 CX4200						
Software			DX7630						

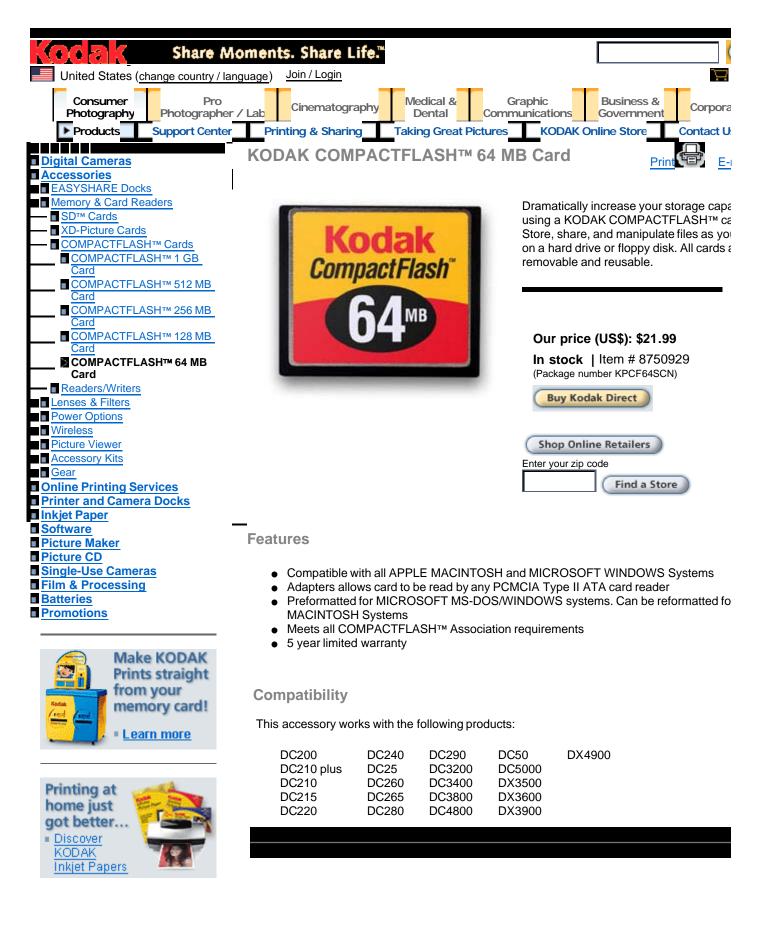
KODAK Inkjet Media

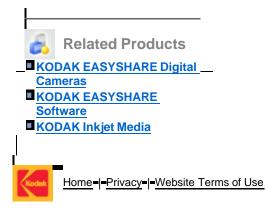
- DX7630DX6490
- LS743

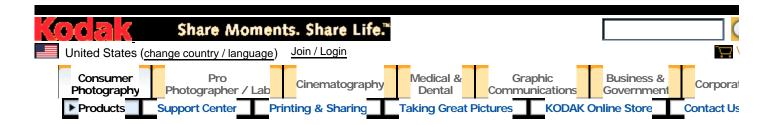


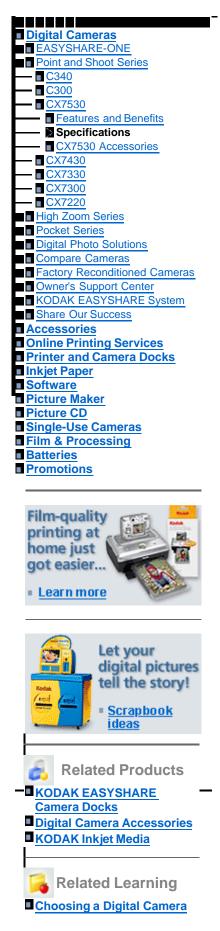


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EASYSHARE CX7530 Zoom Digital Camera Specifications







This page contains: Specifications Package Contents System Requirements

CX7530 Overview Features and Benefits Printable data sheet (PDF) CX7530 Accessories

Compare this camera to others

Specifications

Standard Features

-CCD resolution -image resolution picture quality

zoom

—aperture —shutter speed —viewfinder display

Performance Features

- -scene modes
- -color modes
- -burst modes
- -click to capture
- -shot to shot
- —movie mode
- _movie image resolution

—movie length _movie file format

—auto focus focus distance

-ISO equivalent -white balance -light metering method -exposure control

- -1/2.5 inch type (5.36 M total pixels)
- -5.0 MP (2560x1920 pixels)
 - 5.0 MP -- best (prints up to 20"x30")
 - 4.4 MP -- best 3:2 (optimized ratio for 4"x6" prints)
 - 3.1 MP -- better (prints up to 11"x14")
 - 1.7 MP good (small prints) 15X total zoom
- -3X optical zoom -- 5.6-16.8 mm (35 mm equivalent: 34-102 5X advanced digital zoom
- -f/2.7-5.2 (wide); f/4.6-8.7 (tele)
- -1/2 1/1400 seconds
- -real image optical viewfinder
- _1.8" (4.6 cm) high resolution (134K pixel) indoor/outdoor cc display

 auto, portrait, landscape, night, close-up, sport, movie color, black and white, sepia 2.4 fps, up to 4 pictures 0.6 seconds 1.3 seconds continuous MPEG-4 video with audio capture/playback
VGA (640x480 pixels) at 13 fps
QVGA (320x240 pixels) at 20 fps
—limited by capacity of memory card or 5, 15, 30 second clip: Still: JPEG/EXIF v2.2.1; Video: QuickTime MOV (MPEG-4 compression)
-TTL-AF; multi-zone, center-zone
Standard 60 cm (23.6 in.) to infinity
Landscape 10 m (32.8 ft.) to infinity
Close-up wide 13-70 cm (5-28 in.)
Close-up tele 22-70 cm (9-28 in.)
-80-160 (automatic) and 80, 100, 200, 400, 800 (manual)
-auto, daylight, tungsten, fluorescent
—TTL-AE; selectable: multi-pattern, center-weighted, center: —programmed AE

http://www.kodak.com/eknec/PageQuerier.jhtml?pq-path=2238&pq-locale=en_US

E-m

 Digital Camera Controls The Art of Pictures 	-long time exposure -exposure compensation Ease of Use Features	-0.7-4 seconds -+/- 2.0 EV in 0.5 EV step increments
	—flash mode —flash range _review mode	 auto, red-eye, fill, off wide 0.6-3.6 m (2-11.8 ft.); tele 0.6-2.1 m (2-6.9 ft.) 1X-8X magnify with pan, slide show, multi-up, fast scroll, pr album
	—favorites mode —auto-orientation —software compatibility	—store up to 200 pictures on camera —auto picture rotation —KODAK EASYSHARE Software _Dock compatibility KODAK EASYSHARE Camera and P Docks*
	—PictBridge compatible —storage —self-timer Additional Features	 print directly from camera —32 MB internal memorySD/MMC card expansion slot —10 seconds
	power options — — lens protection <u>—</u> tripod mount interface	optional KODAK EASYSHARE Docks with Ni-MH recharge —battery back; 2 AA KODAK MAX Digital Camera Batteries; lithium or Ni-MH batteries or 1 CRV3 lithium battery; 3 volt —built-in lens barrier _1/4 inch standard power input (3V DC), A/V output (NTSC or PAL, user select KODAK Camera and Printer Dock interface, USB complian
	—weight —dimensions —warranty	connector —without batteries: 190 g (6.7 oz.) —WxHxD: 102.5x65x38 mm (4.0x2.6x1.5 in.) —1 year

Package Contents

- KODAK EASYSHARE CX7530 Zoom Digital Camera
- KODAK MAX Digital Camera Batteries AA or equivalent
- Video out cable
- USB cable
- Wrist strap
- KODAK EASYSHARE Software
- Getting started kit
- Custom camera insert for optional KODAK EASYSHARE Camera and Printer Docks

System Requirements

Windows

- WINDOWS 98, 98SE, ME, 2000 SP1, or XP OS
- Internet Explorer 5.01 or higher
- 233 MHz processor or greater
- 64 MB RAM (128 MB RAM for WINDOWS XP OS)
- 200 MB hard drive disk space available
- CD-ROM drive
- Available USB port
- Color monitor, 800x600 pixels (16-bit or 24-bit recommended)

Macintosh

- MACINTOSH OS X 10.2.3, 10.3
- SAFARI 1.0 or higher
- 128 MB RAM
 - 200 MB hard drive disk space ava
- CD-ROM drive
- Available USB port
- Color monitor, 1024x768 pixels (thousands or millions of colors recommended)



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Specifications

- **MultiMediaCards**
- Specifications

Secure Digital Cards

Card Readers

Digital Accessories

Compatibility

Cards are tested and manufactured to the highest quality standard to assure you there is no need to worry about lost or missing data. With the small size and solid-state design of the SD Cards, they are perfect for mobile applications and users.

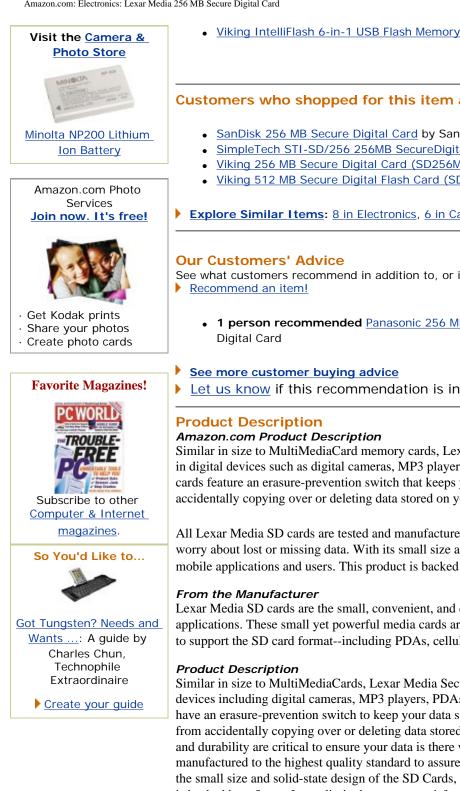
5-year Limited Warranty

This product is backed by a 5-year limited customer-satisfaction warranty.

Amazon.com: Electronics: Lexar Media 256 MB Secure Digital Card



http://www.amazon.com/exec/obidos/tg/detail/-/B00006H...3/102-9752305-8383356?v=glance&s=electronics&n=507846 (1 of 7)4/14/2004 6:44:27 AM



See all product description...

Spotlight Reviews (What's this?)

Write an online review and share your thoughts with other customers.

5 of 8 people found the following review helpful:

Works well; hoped it would be faster, August 4, 2003

<u>Viking IntelliFlash 6-in-1 USB Flash Memory Reader</u> by Viking Components (Rate it)

Explore similar items

Customers who shopped for this item also shopped for these items:

- SanDisk 256 MB Secure Digital Card by SanDisk (Rate it) \$69.99
- SimpleTech STI-SD/256 256MB SecureDigital Card SD by SimpleTech (Rate it) \$79.99
- Viking 256 MB Secure Digital Card (SD256M-P) by Viking Components (Rate it) \$78.99
- Viking 512 MB Secure Digital Flash Card (SD512M) by Viking Components (Rate it) \$161.99

Explore Similar Items: 8 in Electronics, 6 in Camera & Photo, and 9 in DVD

- See what customers recommend in addition to, or instead of, the product on this page.
 - 1 person recommended Panasonic 256 MB Secure Digital Card instead of Lexar Media 256 MB Secure

Let us know if this recommendation is inappropriate.

Similar in size to MultiMediaCard memory cards, Lexar Media's 256 MB Secure Digital (SD) card is designed for use in digital devices such as digital cameras, MP3 players, PDAs, cellular phones, and camcorders. Lexar Media's SD cards feature an erasure-prevention switch that keeps your data safe. When the switch is locked, it will stop you from accidentally copying over or deleting data stored on your card.

All Lexar Media SD cards are tested and manufactured to the highest quality standard to assure you there is no need to worry about lost or missing data. With its small size and solid-state design, Lexar Media's SD cards are perfect for mobile applications and users. This product is backed by a five-year limited customer-satisfaction warranty.

Lexar Media SD cards are the small, convenient, and durable solution for data storage use for a variety of digital applications. These small yet powerful media cards are designed to interface with an array of digital devices designed to support the SD card format--including PDAs, cellular phones, digital video recorders and digital cameras.

Similar in size to MultiMediaCards, Lexar Media Secure Digital (SD) Cards are designed for use in many digital devices including digital cameras, MP3 players, PDAs, cellular phones and camcorders. The Lexar Media SD Cards have an erasure-prevention switch to keep your data safe. When the switch is in the locked position, it will stop you from accidentally copying over or deleting data stored on your card. Now you know your data will be safe. Reliability and durability are critical to ensure your data is there when you need it. All Lexar Media SD Cards are tested and manufactured to the highest quality standard to assure you there is no need to worry about lost or missing data. With the small size and solid-state design of the SD Cards, they are perfect for mobile applications and users. This product is backed by a 5-year Lexar limited customer-satisfaction warranty.

Reviewer: **pcweenie** from Leesburg, VA United States

I'm fairly happy with the Lexar 256 MB SD card. It works well in my 4 megapixel camera. I was hoping it would be faster than the 128 MB SimpleTech card I already had. It's not. Both seem dreadfully slow to record pictures and to read them back with unloading. My 3 MP camera is probably 2-3 times faster with its Compact Flash memory card.

Was this review helpful to you?

13 of 15 people found the following review helpful:

********** Lexar Media 256mb Secure Digital, May 18, 2003

Reviewer: **An electronics fan** from Eugene, OR United States

I recently got a Minolta F100 camera as a gift from my Employer. It came with a 16mb Toshiba SD memory card. I quickly realized that small memory card was not going to cut it. Looking around the web I found the Lexar Media 256mb on sale here at Amazon and purchased the card. The card has been great and really allows one to capture tons of pictures without the need of a computer to offload. I can store 255 images at 2272x1704 with standard compression. Enough for even the most ambitious vacation plans.

An amazing product at a great price! It's hard to believe a postage size card can hold 256mb of data. I look forward to cost effective 512mb and 1024mb cards in the future. One thing I know for sure is it will be a Lexar Media product.

Was this review helpful to you?

All Customer Reviews Average Customer Review:

Write an online review and share your thoughts with other customers.

0 of 2 people found the following review helpful:

Worked in my Mustek DV4000, March 16, 2004

Reviewer: <u>rgathright (see more about me)</u> from Lake Charles, LA United States

No problems yet. I purchased memory for my Mustek DV4000 and memory worked fine.

Was this review helpful to you?

1 of 2 people found the following review helpful:

Reviewer: **Tyler** from Texas After a couple of days of it working fine, it just crapped out. I was uploading songs to it when I got an error message. It wouldn't detect it when I tried to format it and did not detect it in the G drive. So I'm getting it replaced and hopefully the next one will be better. I guess the previous poster was right, because it was made in Taiwan, not Japan. So I don't know, maybe the Japanese ones are fine, but I'd avoid the Taiwan ones. Which is what Amazon shipped me...

Was this review helpful to you?

1 of 1 people found the following review helpful:

******** Go with another brand, February 19, 2004

Reviewer: <u>greg_hallock (see more about me)</u> from Menlo Park, California United States

While the lexar works fine, the write protect slider tends to become loose, and can cause you to be unable to write. While this can be fixed with a little tape, it is likely better just to get another brand.

Was this review helpful to you?

5 of 5 people found the following review helpful:

Read-only lock problem, February 9, 2004

Reviewer: Mette H. H. Hansen (see more about me) from Denmark

I had the same problem as one of the other reviewers below: The read-only lock on the card I received also stuck out too far. Whenever I inserted the card in my Kodak dx6490 camera the lock was pushed back, and I got an error message saying that the card was protected. I tried to make the lock stick to the unlock position in every imaginable way, and finally reaching a point of desperation, I pushed the lock to the unlocked position and broke it off. That didn't work: The card still appears to be locked, and is entirely useless.

This situation got me stuck in Belize with nothing but the small internal memory of my camera, and I had to buy a couple of very overpriced 32MB cards while I was there.

I can't recommend buying this product at all.

Was this review helpful to you?

See all 22 customer reviews...

So You'd Like To...

- <u>Got Tungsten? Needs and Wants for Tungsten enthusiast!</u>: by <u>Charles Chun</u>, Technophile Extraordinaire
- Make your Palm Zire 71 Phenomenal: by carpelgin, Person with a Palm Zire 71
- Do More with Your Palm Handheld: by dietassistant, PDA Buff Since 1996

Let us know if any of these guides are inappropriate.

Listmania!

- Essential Accessories for Garmin iQue 3600 PDA/GPS: A list by David Stoesz, PDA Guru
- <u>Birthday Presents for Brother or Guy Friend</u>: A list by <u>thinklazy</u>, Think Lazy ThinkLazy. com
- electronics (palm): A list by Abdulmohsen Alhamad, analyst

Let us know if any of these lists are inappropriate.

Browse for **Electronics** in:

- <u>Brands</u> > <u>Lexar</u> > <u>All Lexar</u>
- Brands > Lexar > MultiMediaCards & Secure Digital Cards
- <u>Categories</u> > <u>Computer Add-Ons</u> > <u>Memory</u> > <u>Memory Cards & Readers</u> > <u>MultiMediaCards & Secure Digital Cards</u>
- <u>Categories</u> > <u>Audio & Video</u> > <u>MP3 & Digital Media Players</u> > <u>All MP3 Players</u>
- <u>Camera & Photo</u> > <u>Categories</u> > <u>Accessories</u> > <u>All Accessories</u> > <u>Memory Cards &</u> <u>Readers</u> > <u>MultiMediaCards & Secure Digital Cards</u>
- <u>Camera & Photo</u> > <u>Categories</u> > <u>Accessories</u> > <u>Digital Camera Accessories</u> > <u>Memory</u> <u>Cards & Readers</u> > <u>MultiMediaCards & Secure Digital Cards</u>
- <u>Travel</u> > <u>Electronics Essentials</u> > <u>Portable Audio & Video</u> > <u>MP3 & Digital Audio</u> > <u>All</u> <u>MP3 Players</u>
- <u>Travel</u> > <u>Electronics Essentials</u> > <u>Portable Audio & Video</u> > <u>MP3 & Digital Audio</u> > <u>Accessories</u> > <u>Memory Cards & Readers</u> > <u>MultiMediaCards & Secure Digital Cards</u>



Suggestion Box

Your comments can help make our site better for everyone. If you've found something incorrect, broken, or frustrating on this page, let us know so that we can improve it. Please note that we are unable to respond directly to suggestions made via this form.

If you need help with an order, please contact Customer Service.

Please mark as many of the following boxes that apply:

Product information is missing important details.

Product information is incorrect.

The page contains typographical errors.

The page takes too long to load.

The page has a software bug in it.

Content violates Amazon.com's policy on offensive language.

Product offered violates <u>Amazon.com's policy</u> on items that can be listed for sale.

Comments or Examples:

Examples: Missing information such as dimensions and model number, typos, inaccuracies, etc.

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Sabatier ChefStar 20-Piece Cutlery Block Set Unleash your culinary skills with this amazing knife set.	\$44.99	\$40.01 (47%)
<u>Conair FB12N Ultra Massaging Footbath with Water Jet</u> Treat those feet right with this massaging footbath with waterjet.	\$40.49	\$19.50 (33%)
Vitabath Moisturizing Bath & Shower Gelee, Spa Skin Therapy - 32 oz Experience luxurious cleansing lather and ocean-fresh fragrance.	\$24.29	\$2.70 (10%)
Depend Fitted Briefs, Large (36 Briefs) Absorbent disposable briefs with stay-dry liner.	\$24.29	\$2.70 (10%)
Carborite The Original Chocolate Bar For Low-Carb Dieters, Milk Chocolate - 24 ea Yummy chocolate flavor for low-carb dieters.	\$23.99	\$4.57 (16%)

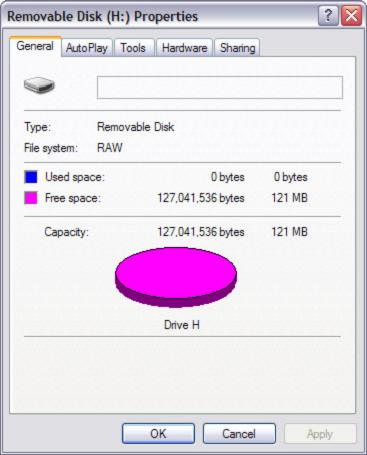
<u>Citrucel Fiber Therapy for Regularity, Methylcellulose, Orange Flavor - 50 oz</u> A smooth, nongritty therapeutic fiber derived from a natural source.	\$19.79	\$2.20 (10%)
Rembrandt Plus Superior Bleaching System Refill Kit, 18 ml (6 Bleaching Gel Syringes) Pain-free bleaching for superior white teeth.	\$18.22	\$4.28 (19%)
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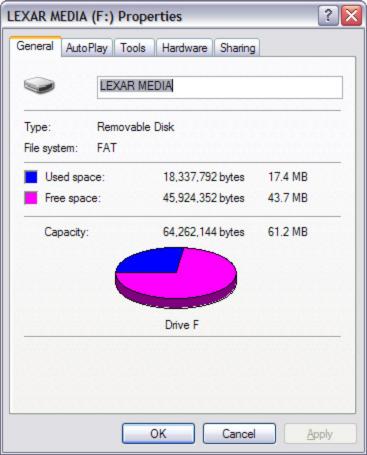
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SmartMedia[™]

<u>Flash</u>

OVERVIEW

PNY SmartMedia[™] cards are specifically designed for use with digital still cameras, PDA's, MP3 players and other electronic products that use SmartMedia[™] cards as standard or extended data storage. Compatible with today's most popular opertating systems such as Windows 95/98, Windows 2000, OS/2 or MAC OS. PNY SmartMedia[™] cards are the optimal storage upgrade for digital imaging, portable computing and multimedia systems. PNY SmartMedia[™] cards can be written and reused thousands of times and have been optimized for speed, capacity and durability.

APPLICATIONS:

Digital Cameras Maximize your storage capacity, resolution and speed. Never miss another shot! **MP3 Players** Enjoy extended listening of your favorite music files Handheld PC's Increase your storage capacity Notebook Computers Backup all important data files

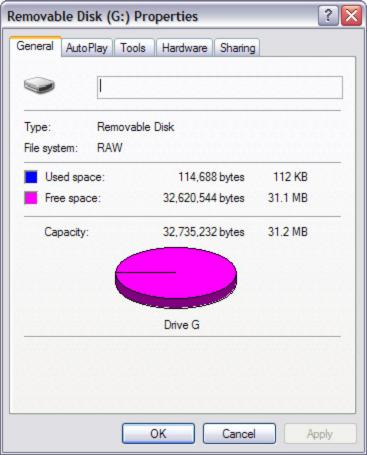
FEATURES

- Available in 64, and 128MB capacities
- 100% compatible with digital cameras, handheld PC's, audio devices and notebooks designed for use with SmartMedia[™]
- Maximizes your storage capacity, resolution and speed
- High Performance, low power consumption, non-volatile storage
- Store, erase and reuse. PNY SmartMedia[™] cards can be reused over and over without loss of quality
- PNY SmartMedia[™] cards resist breakage and are not affected by extreme heat or cold
- Toll Free technical support number

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Image Size					
Camera Type	64 MB	128 MB	256 MB	512 MB	1 GB
2 Megapixel	200	401	805	1610	3145
3 Megapixel	136	274	584	1092	2365
4 Megapixel	110	220	443	874	1708
5 Megapixel	43	88	177	348	728
*Number of photos may vary by camera manufacturer					

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Memory

Desktop SDRAM Memory



OVERVIEW

PNY manufactures memory upgrades for Apple, Compaq, DELL, Gateway, HP, IBM and over 5000 different types of desktop systems. PC-133 or PC-100 Synchronous DIMMS For Pentium II/III, Celeron, K6-2, Athlon and PowerPC

Boost the performance of your desktop computer system to its maximum capability. PNY's memory upgrades will prove themselves to be an outstanding value both now and in the future.

CAPACITIES & CONFIGURATIONS

Memory Speed	Capacities
PC100	64MB - 1GB
PC133	64MB - 1GB

FEATURES

Lifetime warranty

- Free 24-hour technical support
- Easy to install
- Built to Intel specifications
- Gold contacts

Important Announcement

PC133 Modules are NO LONGER backward compatible with PC100 Machines. To determine the correct memory upgrade for your machine, use the PNY memory configurator.

Memory Configurator

The PNY Memory Configurator will help you easily determine the right memory for your Desktop, Notebook, Workstation or Server.

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Letters A-L | Letters M - Z

Mb - Megabit

Used to define real and virtual storage - Equal to 1,048,576 bits

MB - Megabyte

Used to define real and virtual storage - Equal to 1,048,576 bytes

NS - Nanosecond

PARITY BIT

Intel Specification for SDRAM memory devices and modules that will reliably operate at a 100MHz Front Side Bus (FSB) frequency. PC-100 SDRAM memory is backward compatible to systems that use PC-66 SDRAM memory.

PC133 SDRAM Memory

Intel Specification for SDRAM memory devices and modules that will reliably operate at a 133MHz Front Side Bus (FSB) frequency. PC-133 SDRAM memory is backward compatible to systems that use either PC-100 or PC-66 SDRAM memory.

PCMCIA

Personal Computer Memory Card International Association. Group that sets the "industry standard" for credit card style devices.

QUAD-CAS

uses single x4 parity chips for each group of 8 DRAM chips on a 72-pin SIMM.

RAM - Random Access Memory

system memory in which programs and data are stored temporarily while the computer is operating. The more RAM your computer has, the more data it can store at one time and subsequently the more efficient your computer will operate.

RAS

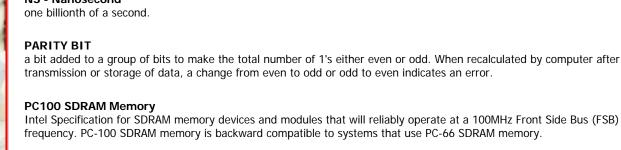
Row Address Strobe - memory controller signal that tells the memory that it can read the row address signal.

SIMM

Single In-line Memory Module - consists of multiple DRAM chips mounted on a single circuit board for easy installation.

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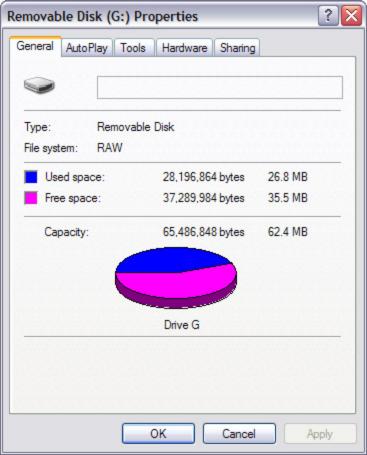


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Digital Photo Viewer		Availability. Backordered
Extreme Product Line	SanDisk/22	The SmartMedia card is a removable flash memory card that can
Memory Card Readers		be used in several different types of digital devices, including digital cameras, digital music players and digital voice recorders.
Memory Stick		Advanced Features Include: High transfer rate for fast copy/
Memory Stick PRO		download, Multiple storage capacity, Unfazed by drastic weather
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Determining Actual Disk Size: Why 1.44 MB Should Be 1.40 MB	Comments? • Provide us with feedback on this article Support Centers • Windows 95
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The 1.44- megabyte (MB) value associated with the 3.5-inch disk format does	Send Print

the actual size or free space of these disks. Although its size has been popularly called 1.44 MB, the correct size is actually 1.40 MB.

MORE INFORMATION

not represent

The correct size is determined by multiplying the number of tracks, sides, sectors per track, and 512 bytes per sector, then subtracting the bytes required to format the disk, and then dividing this figure by 1024. For a "1.44-MB" 3.5-inch floppy disk, there are

80 tracks 18 sectors per track 512 bytes per sector 2 sides

Multiplying the above gives you 1,474,560 bytes. This is the unformatted size.

To determine the number of bytes formatting requires, you need to know how many bytes are used for the boot sector, file allocation table (FAT), and root directory.

There is 1 sector used for the boot sector, which is 512 bytes; 18 sectors for the two FATs (9 sectors each), which is 9216 bytes (512 * 18 = 9216); and 14 sectors for the root directory, which is 7168 bytes.

NOTE: There are two ways to arrive at the 7168 number:

224 entries * 32 bytes per entry = 7168 bytes

512 bytes per sector (14 * 512 = 7168 bytes)

Adding these figures gives you 16,896 bytes.

Subtracting the amount used for formatting from the total unformatted size gives you 1,457,664. (1,474,560 - 16,896 = 1,457,664 bytes)

Dividing the above figure by 1024 bytes generates 1440. (1,474,560 / 1024 = 1440 KB)

To convert to megabytes, divide by 1024. (1440 KB / 1024 = 1.406 MB)

This formula works for 1.2-MB disks as well. The only variable is the number of sectors, which is 15, for the calculations with 1.2-MB disks.

From the calculations shown above, we can see that the 3.5-inch disk considered to have 1.44 MB free disk space actually has 1.40 MB, and the 5.25-inch disk considered to have 1.2 MB actually has 1.17 MB.

The misunderstanding comes from the incorrect calculation below:

1440 KB / 1000 = 1.44 MB

The calculation should be:

1440 KB / 1024 = 1.40 MB

There are 1024 bytes in a kilobyte, not 1000.

Note that in Windows 95, the properties for a blank, formatted 3.5-inch 1.44-MB disk show that there are 1.38 MB of free disk space.

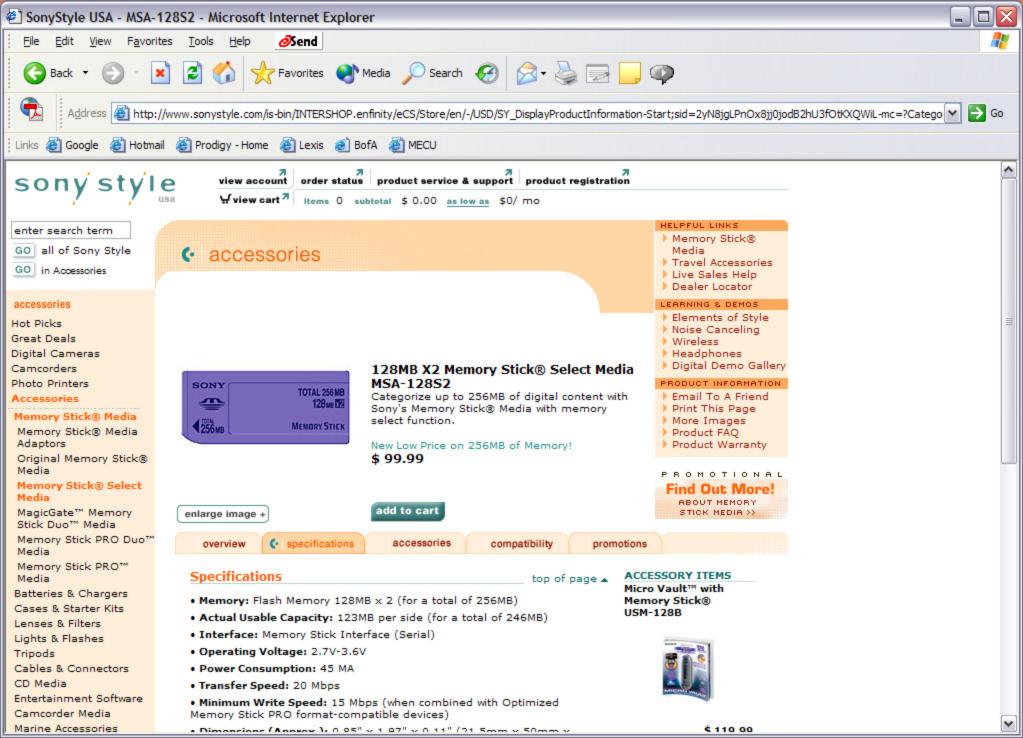
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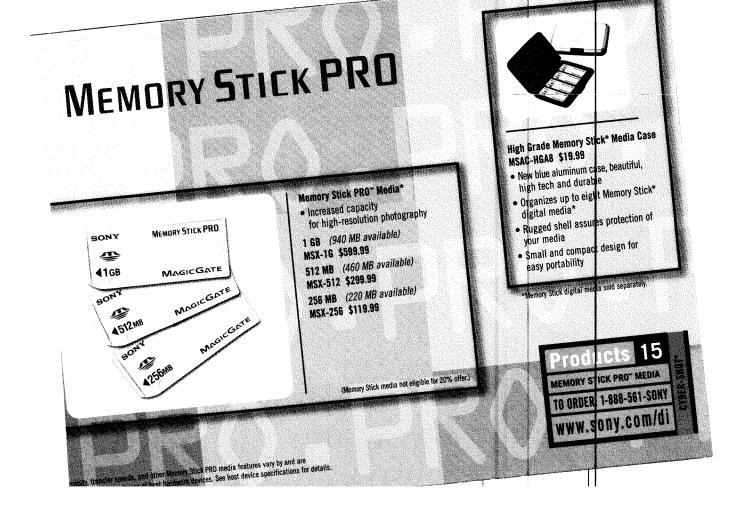
- Microsoft MS-DOS operating system 3.1
- Microsoft MS-DOS operating system 3.2
- Microsoft MS-DOS operating system 3.21
- Microsoft MS-DOS operating system 3.3
- Microsoft MS-DOS operating system 3.3a
- Microsoft MS-DOS operating system 4.0
- Microsoft MS-DOS operating system 4.01
- Microsoft MS-DOS operating system 5.0
- Microsoft MS-DOS operating system 5.0a
- Microsoft MS-DOS operating system 6.0
- Microsoft MS-DOS operating system 6.2
- Microsoft MS-DOS operating system 6.21
- Microsoft MS-DOS operating system 6.22
- Microsoft Windows 3.1
- Microsoft Windows 3.11
- Microsoft Windows 95
- Microsoft Windows for Workgroups 3.11

Last Reviewed:	5/6/2003 (2.0)
Keywords:	KB121839

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