

Panasonic
ideas for life

2006
DIGITAL VIDEO CAMERA



e.cam

Enjoy Extended Viewing of Beautiful Images



NV-GS500

3CCD NV-GS500



3CCD Camera System	O.I.S. (Optical Image Stabiliser)
LEICA DICOMAR Lens	Crystal Engine
4.0-Megapixel Still Picture Recording	2.7" Wide LCD
12x Optical zoom	Manual Focus Ring
Pro-Cinema Mode	USB 2.0 (High Speed)

3CCD NV-GS300



3CCD Camera System	O.I.S. (Optical Image Stabiliser)
LEICA DICOMAR Lens	Crystal Engine
3.1-Megapixel Still Picture Recording	2.7" Wide LCD
10x Optical zoom	USB 2.0 (High Speed)

3CCD NV-GS180



3CCD Camera System	Crystal Engine
2.3-Megapixel Still Picture Recording	10x Optical zoom
USB 2.0 (High Speed)	

30x Optical Zoom NV-GS27



Pure Colour Engine	30x Optical zoom
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Advanced Imaging Technologies for Beautiful Results

Triple beauty — remarkable colour, detail and gradation 3CCD Camera System

GS500 GS180
GS300



Most professional broadcasting cameras use the 3CCD camera system. With the 3CCD camera system you can see the results in beautifully rendered images with vivid colour, fine detail, and rich gradation.



3CCD



1CCD

Superior Leica-certified image quality
LEICA DICOMAR Lens

GS500
GS300

**LEICA
DICOMAR**

The e.cam boasts a Leica Dicomar lens. This advanced lens captures clear, crisp, finely nuanced images with outstanding detail and contrast. Also, the lens was manufactured using a multi-coating process that reduces flare and ghosts.

*Leica is a registered trademark of Leica Microsystems IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.



Clear, beautiful moving pictures and still images
O.I.S. (Optical Image Stabiliser)

GS500
GS300



Panasonic's O.I.S. minimises hand-shake. The O.I.S. is extremely effective in situations where hand-shake is most often a problem, such as with zoom shots and in dim lighting. When you're shooting a still image, the MEGA O.I.S. system automatically activates.



O.I.S. ON



O.I.S. OFF

The powerful 30x Optical Zoom

GS27

Enjoy remarkable 30x zoom magnification in a camera that fits comfortably and securely in one hand. Because the zoom is optical, it captures both moving and still pictures with exquisite beauty.



1x 35.7mm [35mm film camera equivalent] 30x 1072mm [35mm film camera equivalent]

High-performance image processing Crystal Engine & Pure Colour Engine

GS500 GS180
GS300 GS27



The Crystal Engine is a special image processing circuit for 3CCD camera system. And the Pure Colour Engine is the same one for high-zooming cameras. Each engine achieves truly superb colour reproduction for high quality pictures.

GS500/GS300/GS180: Crystal Engine
GS27: Pure Colour Engine



With Crystal Engine



Without Crystal Engine



Crystal Engine

World's highest Simultaneous Motion Video and 1.2-Megapixel Still Picture Recording

GS500

Now you can have it both ways. When you're shooting a moving picture and you see a great scene, you can snap off a 1.2-megapixel still shot while continuing to record the moving picture. You don't even have to change recording modes. The moving pictures are recorded onto tape, the still is recorded onto the SD Memory Card. This two-in-one capability means you can catch sudden photo opportunities without interrupting a great moving picture scene. *As of January 4, 2006



Motion Video



1.2-Megapixel Still Picture

Functions that Give You More Shooting Flexibility

Simple, one-handed operation

GS500 GS180
GS300 GS27

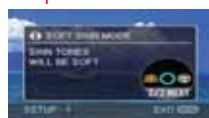
The joystick makes the camera much easier to use, letting you control all basic operations with one hand. As you shoot, just watch the image in the monitor and follow the instruction guide. You can handle a number of operations quickly and easily, without even taking your eye off the subject.

Press the centre of the joystick to display icons on the screen.



Control buttons are centrally arranged for easier use. Joystick

► The Help Mode Explains the Icons



Help mode explanation of Soft Skin Detail.
◊The GS180 has no Help Mode.

► Multilingual Menu



Never miss those sudden shooting opportunities--1.7 sec Quick Start

GS500 GS180
GS300 GS27

The Quick start mode* helps shoot videos on the spur of the moment. This mode lets you shoot those not-to-be-missed scenes just 1.7sec from the time the power is turned on. *This mode can be selected from the menu. ◊The GS180 has a Quick Start Button.

Improved grip for easy one-handed shooting

GS500 GS180
GS300 GS27

The grip is slanted to follow the natural contour of the fingers, giving the camera a more comfortable fit in your hand. The grip also has a low profile and is angled for easy carrying. These features minimise hand strain, making it possible to shoot for long periods without fatigue.



Adjust the focus manually if you prefer with Manual Focus Ring

GS500

Positioned at the front of the lens barrel, the manual focus ring has a non-slip, sure-grip surface for easy operation and quick response when a photo opportunity pops up. It ensures professional-style operation and enhances creativity.

More Fun After Shooting, Too

Transfer data to a PC at high speed too USB 2.0 (HS Mode) and Video Class* Compatibility



GS500 GS180
GS300

USB 2.0 compatibility lets you upload DV data to a PC at high-speed over a single USB cable. Video Class compatibility allows real-time transfer of DV moving picture data over the same USB cable.

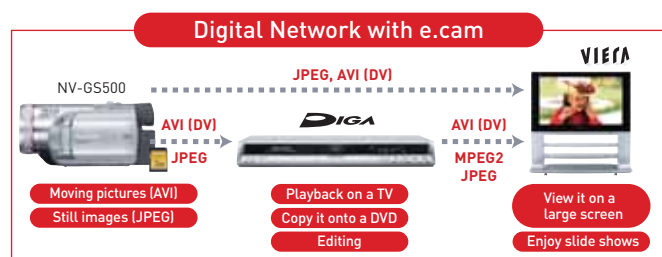
*Video Class is a standard format that allows the real-time transfer of moving picture data over a USB cable. GS27:USB 2.0 (FS Mode)



MotionDV STUDIO 5.6E LE for DV/SweetMovieLife 1.0 E [DV Editing Software]

The included software MotionDV STUDIO 5.3 LE DV and SweetMovieLife 1.0E is just the tool you need to make polished, smartly finished productions easily.

*The GS180 includes only MotionDV STUDIO 5.3E LE for DV.



Real-time visual communication WEB Camera Function

GS500 GS180
GS300 GS27

With the camera connected via USB cable to a PC, start up Windows® Messenger and the camera instantly turns into a web camera. Ideal for teleconferencing over the Internet, or for surveillance camera use.



Other Features

- Still Picture Recording (GS500: 4.0-Megapixel, GS300: 3.1-Megapixel, GS180: 2.3-Megapixel)
- High-Picture-Quality Wide Mode[16:9] and 2.7" Wide LCD (GS500/GS300)
- AGS[Anti-Ground Shooting mode] (GS500/GS300) •Pro-Cinema Mode (GS500)
- Power LCD (GS500/GS300/GS180) •Tele Macro (GS500/GS300/GS180)
- Accessory Shoe (GS500): Hot Shoe (GS300/GS180): Cold Shoe
- Soft Skin Detail (GS500/GS300/GS180/GS27)
- Direct Mode Dial (GS500/GS300/GS180/GS27)
- 0Lux Colour Night View (GS500/GS300/GS180)
- Colour Night View (GS500/GS300/GS180/GS27)
- Audio Level Meter & Mic Level Control (GS500) •Built-in Flash (GS500/GS300)
- One-Touch Magic Strap (GS500/GS300) •Auto Lens Cover (GS300)
- SD Memory Card Compatible (GS500/GS300/GS180)
- PictBridge Compatible (GS500/GS300/GS180)
- DV IN/OUT (GS500/GS300) •DV/OUT (GS180/GS27)

FEATURE COMPARISON

	<i>DVDeCam</i>		<i>eCam</i>				<i>SDeCam</i>
	D300/D250	D150	GS500	GS300	GS180	GS27	S100
High-Quality Pictures							
Media	8 cm DVD Disc	8 cm DVD Disc	mini DV Tape	mini DV Tape	mini DV Tape	mini DV Tape	SD Card
Recording Format	MPEG2	MPEG2	AVI	AVI	AVI	AVI	MPEG2
3CCD Camera System	Yes	No	Yes	Yes	Yes	No	Yes
O.I.S./MEGA O.I.S. (Optical Image Stabiliser)	D300: Yes D250: No	No	Yes	Yes	No	No	Yes
Leica Dicomar Lens	D300: Yes D250: No	No	Yes	Yes	No	No	Yes
Image Processing LSI	Crystal Engine	Pure Colour Engine	Crystal Engine	Crystal Engine	Crystal Engine	Pure Colour Engine	Crystal Engine
MPEG2 Engine	Yes	Yes	No	No	No	No	Yes
Optical Zoom	10x	30x	12x	10x	10x	30x	10x
Still Picture Recording	D300: 3.1 MEGA D250: 2.3 MEGA	0.3 MEGA [640 x 480]	4.0 MEGA	3.1 MEGA	2.3 MEGA	No	3.1 MEGA
Simultaneous Motion Video & Still Picture Recording	No	No	1.2 MEGA	0.3 MEGA [640 x 480]	0.3 MEGA [640 x 480]	No	No
High-Picture-Quality Wide Mode (16:9)	Yes	No	Yes	Yes	Yes	No	Yes
Easy & Versatile							
LCD	2.7" Wide	2.5"	2.7" Wide	2.7" Wide	2.5"	2.5"	2.8" Wide
Power LCD	Yes	No	Yes	Yes	Yes	No	Yes
One-Touch Navigation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Help Mode	Yes	No	Yes	Yes	No	Yes	No
Direct Mode Dial	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flash	D300: Yes (GN4.8) D250: No	No	Yes (GN5.3) [Built-in]	Yes (GN4.8) [Built-in]	No	No	Yes (GN4.5) [Pop-up]
Colour Night View	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built-in LED Light	No	No	No	No	No	No	No
Manual Focus Ring	No	No	Yes	No	No	No	No
Pro-Cinema Mode	No	No	Yes	No	No	No	No
Soft Skin Detail	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tele Macro Mode	Yes	No	Yes	Yes	Yes	No	Yes
AGS	D300: Yes D250: No	No	Yes	Yes	No	No	No
Quick Start	No	No	1.7 sec	1.7 sec	1.7 sec	1.7 sec	1.5 sec
Lens Cover	D300: Auto D250: Cap	Cap	Cap	Auto	Cap	Cap	Auto
Accessory Shoe	Cold	No	Hot	Cold	Cold	No	No
One-Touch Magic Strap	No	No	Yes	Yes	No	No	No
Networking							
USB 2.0	HS Mode	HS Mode	HS Mode	HS Mode	HS Mode	FS Mode	HS Mode
SD Memory Card Compatible	Yes	Yes	Yes	Yes	Yes	No	Yes
PictBridge Compatible	Yes	Yes	Yes	Yes	Yes	No	Yes
DV IN/OUT	No	No	In/Out	In/Out	In/Out	Out	No
Analogue IN/OUT	Out	Out	Out	Out	Out	Out	Out
WEB Camera Function	No	No	Yes	Yes	Yes	Yes	Yes









OPTIONAL ACCESSORIES









Accessories		DVD e cam		e cam				SD e cam
	Model No.	D300/D250	D150	GS500	GS300	GS180	GS27	S100
POWER								
Rechargeable Lithium-Ion Battery Pack*1 Battery Life: Continuous Recording (Using the Viewfinder) Ambient Temperature: 25°C Ambient Humidity: 60%	CGR-DU06 [7.2V/640mAh]			1 h 05 min	1 h 15 min	1 h 15 min	1 h 50 min	
	CGA-DU07 [7.2V/680mAh]			1 h 05 min	1 h 20 min	1 h 20 min	1 h 55 min	
	CGA-DU12 [7.2V/1150mAh]	D300: 1 h 40 min*2 D250: 1 h 45 min*2	2 h 15 min*2	1 h 55 min	2 h 15 min	2 h 15 min	3 h 15 min	
	CGA-DU14 [7.2V/1360mAh]	D300: 2 h 05 min*2 D250: 2 h 10 min*2	2 h 50 min*2	2 h 10 min	2 h 40 min	2 h 40 min	3 h 50 min	
	CGA-DU21 [7.2V/2040mAh]	D300: 3 h 10 min*2 D250: 3 h 15 min*2	4 h 20 min*2	3 h 15 min	4 h 00 min	4 h 00 min	5 h 45 min	
	CGA-S303 [7.4V/760mAh]							1 h 20 min
AC Adaptor (2 Battery Charge Type)	VW-AD11E	●	●	●	●	●	●	
SHOOTING								
Tele Conversion Lens	VW-LT3014E		●				●	
	VW-LT3714ME	●			●	●		●
Wide Conversion Lens	VW-LT4314NE			●				
	VW-LW3007E		●				●	
	VW-LW3707M3E	●			●	●		●
	VW-LW4307ME			●				
MC Protector	VW-LMC30E		●				●	
ND Filter	VW-LND30E		●				●	
Filter Kit	VW-LF37WE	●			●	●		
	VW-LF43WE			●				
Stereo Zoom Microphone	VW-VMH3E			●				
Stereo Microphone	VW-VMS2E	●		●	●	●		
Video Flash	VW-FLH3E			●				
Tripod	VW-CT45E	●	●	●	●	●	●	●
Video DC Light	VW-LDH3E			●				
	VW-LDC10E	●		●	●	●		
Light Bulb for Video DC Light	VW-LL3E (for VW-LDH3E)			●				
	VZ-LL10E (for VW-LDC10E)	●		●	●	●		
Jacket Pouch	VW-SJ05E			●	●	●		
DATA TRANSFERRING & RECORDING								
SD Memory Card	RP-SDK02G/01G/512/SDH256/SD128/064/032 RP-SD002G/01G	●	●	●	●	●		●
DV Cable	VW-CD1E			●	●	●	●	
DVD Disc	DVD-RAM: LM-AF60E/DVD-RW: LM-RM60E/ DVD-R: LM-RF30E	●	●					



*1 •We recommend using genuine Panasonic batteries. •Panasonic video cameras are designed for optimal performance when using genuine Panasonic batteries.
•Panasonic are not responsible for any damage or performance loss caused to the video camera, or any other loss or damage resulting from the use of batteries not manufactured by Panasonic.
•In this case, the cost of repairing the video camera is not covered under the guarantee and is the responsibility of the customer.
•Please confirm the latest information about battery on the following website. <http://panasonic.co.jp/pavc/global/cs/info/battery.html> [This website is in English only.]
*2 Recording in LP mode, in DVD-RAM, using EVF.















•Playback is possible on devices that support 8 cm [3"] DVD-Video, but playback on all DVD players is not guaranteed.
•We recommend using the DVD disc and SD Memory Cards made by Panasonic for moving picture recording. Please confirm the latest information about DVD disc and SD Memory Cards that can be used for moving picture recording, on the following website. http://panasonic.co.jp/pavc/global/cs/e_cam [This website is in English only.]
•Some accessories are not available in some countries.













Number of Recordable Still Pictures (approx.)







D300		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2048 x 1512 pixels		1290	630	320	160	75	39	18
		2010	990	490	250	120	61	29
1920 x 1080 pixels [16:9]		1680	820	410	210	98	51	24
		2630	1290	650	330	155	81	39
1280 x 960 pixels		3160	1550	780	390	185	97	47
		5030	2470	1230	620	300	155	75
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440









D250		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
1760 x 1320 pixels		1680	820	410	210	99	51	24
		2700	1330	660	330	160	83	40
1760 x 992 pixels [16:9]		2700	1330	660	330	160	83	40
		4100	2010	1010	510	240	125	61
1280 x 960 pixels		3160	1550	780	390	185	97	47
		5030	2470	1230	620	300	155	75
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440



D150		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
640 x 480 pixels		13830	6800	3400	1710	820	430	210
		27660	13600	6790	3430	1650	870	420

GS500		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2288 x 1728 pixels		990	480	240	120	57	30	14
		1560	770	380	190	91	47	22
2288 x 1288 pixels [16:9]		1330	650	330	165	78	40	19
		2090	1030	510	260	125	64	30
1600 x 1200 pixels		2050	1010	500	250	120	63	30
		3160	1550	780	390	185	98	47
1280 x 960 pixels		3160	1550	780	390	185	98	47
		5030	2470	1230	620	300	155	75
1280 x 720 pixels [16:9]		4250	2090	1040	530	250	130	64
		6510	3200	1600	810	390	200	98
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440
640 x 360 pixels [16:9]		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440

GS300		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2048 x 1512 pixels		1290	630	320	160	75	39	18
		2010	990	490	250	120	62	29
2048 x 1152 pixels [16:9]		1680	820	410	210	99	51	24
		2630	1290	650	330	155	81	39
1600 x 1200 pixels		2050	1010	500	250	120	63	30
		3160	1550	780	390	185	98	47
1280 x 960 pixels		3160	1550	780	390	185	98	47
		5030	2470	1230	620	300	155	75
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440
640 x 360 pixels [16:9]		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440

GS180		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
1760 x 1320 pixels		1680	831	414	208	100	52	24
		2700	1334	666	335	161	84	40
1280 x 960 pixels		3160	1550	774	390	187	98	47
		5030	2495	1246	628	302	158	76
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440

S100		Capacity						
Image Quality		2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2048 x 1512 pixels		1280	630	310	155	75	38	18
		2010	990	490	250	120	61	28
1920 x 1080 pixels [16:9]		1670	820	410	210	98	50	23
		2630	1290	640	320	155	80	37
1280 x 960 pixels		3160	1550	770	390	185	96	45
		5030	2470	1230	620	300	155	73
640 x 480 pixels		13820	6790	3390	1710	820	430	200
		27640	13580	6780	3410	1640	850	410

-  High Picture Quality  Normal Picture Quality
- These figures vary depending on the subject being photographed.
- *Usable capacity will be less

SYSTEM REQUIREMENTS

D300/D250			
	DVD-RAM Driver	DVD-MovieAlbumSE 4.2	DVDfunSTUDIO 2.4
Interface	USB 2.0 [High Speed recommended]		
Windows® 98SE	—	—	—
Windows® Me	—	—	—
Windows® 2000	○	○	○ [SP4]
Windows® XP	○	○	○ [SP2]
CPU	Intel® Pentium® III 450MHz or higher	Intel® Pentium® III 450MHz or higher	Intel® Pentium® III 800MHz or higher

- The supplied software can not be used on Macintosh®.
- DirectX will be installed automatically during installation of the supplied software.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United states and/or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.
- Operation is not guaranteed on Microsoft® Windows® XP Media Center Edition, Tablet PC Edition and not compatible 64-bit computers.

D150		
	Built-in DVD-RAM Driver	Card Reader Function [Mass Storage]
Interface	USB 2.0 [High Speed recommended]	USB 1.1 or later
Windows® 98SE	—	—
Windows® Me	—	○*1
Windows® 2000	—	○*1
Windows® XP	○*1*2	○*1
CPU	Intel® Pentium® III 450MHz or higher	Intel® Pentium® III 300MHz or higher

- *1 USB equipment operates with the driver installed as standard in the OS. *2 The driver operates as Read only.
- USB cable is sold separately.
- The supplied software cannot be used on Macintosh®.
- DirectX will be installed automatically during installation of the supplied software.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United states and/or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.
- Operation is not guaranteed on Microsoft® Windows® XP Media Center Edition, Tablet PC Edition and not compatible 64-bit computers.

GS500/GS300				
	MotionDV STUDIO 5.6E LE for DV/ SweetMovieLife 1.0E	Web Camera Function	Card Reader Function [Mass Storage]	iMovie® 4/iMovie® HD
Interface	USB 2.0/DV [IEEE1394]	USB 1.1 or later	USB 1.1 or later	DV [FireWire®]
Windows® 98SE	—	—	—	
Windows® Me	—	—	○	
Windows® 2000	○ [SP4]	○ [SP4]	○	
Windows® XP	○ [SP2]	○ [SP1/SP2]	○	
CPU	Intel® Pentium® III 800MHz or higher	Intel® Pentium® III 450MHz or higher	Intel® Pentium® II 300MHz or higher	
Mac OS® X v10.3-10.4	—	—	○	
CPU			PowerPC G3 [400MHz or higher], G4, G5	PowerPC G3 [400MHz or higher], G4, G5

- About MotionDV STUDIO 5.6E LE for DV/SweetMovieLife 1.0E
In USB connection: Capturing images to a PC is available. In DV connection: Capturing images to a PC & Recording to a digital video camera are available.
- DV [IEEE1394, FireWire®] cable is sold separately.
- Supplied CD-ROM is available for Windows® only.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Apple®, Mac OS®, iMovie®/iMovie® HD, FireWire® are either registered trademarks or trademarks of Apple Computer, Inc. in the United States and/ or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

GS180				
	MotionDV STUDIO 5.3E LE for DV	Web Camera Function	Card Reader Function [Mass Storage]	
Interface	USB 2.0	DV [IEEE1394]	USB 1.1 or later	USB 1.1 or later
Windows® 98SE	—	—	— *	○
Windows® Me	—	—	— *	○
Windows® 2000	○ [SP4]	○ [SP4]	— *	○
Windows® XP	○ [SP1/SP2]	○ [SP1/SP2]	○ [SP1/SP2]	○
CPU	Intel® Pentium® III 700MHz or higher or AMD Athlon™ 1GHz or higher		Intel® Pentium® III 450MHz or higher Intel® Celeron® 400MHz or higher	Intel® Pentium® II/ Celeron® 300MHz or higher

- About MotionDV STUDIO 5.3E LE for DV
In USB connection: Capturing images to a PC is available. In DV connection: Capturing images to a PC & Recording to a digital video camera are available.
- With NV-GS180CG/E/EB/EP/EF, Recording images from a PC to a digital video camera is not available. •DV cable is sold separately.
- About Web Camera Function *With NV-GS180GD/GT, Web Camera Function is available.
- The supplied software can not be used on Macintosh®.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

GS27		
	Web Camera Function	iMovie® 4/iMovie® HD
Interface	USB 1.1 or later	DV [FireWire®]
Windows® 98SE	—	
Windows® Me	—	
Windows® 2000	—	
Windows® XP	○ [SP2]	
CPU	Intel® Pentium® III 450MHz or higher	
Mac OS® X v10.3~10.4	—	○*
CPU		PowerPC G3 (400MHz or higher), G4, G5

- *Recording images from a PC to a digital video camera is not available.
- USB cable is sold separately. •DV [IEEE1394, FireWire®] cable is sold separately.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Apple®, Mac OS®, iMovie®/iMovie® HD, FireWire® are either registered trademarks or trademarks of Apple Computer, Inc. in the United States and/ or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

S100		
	MotionSD STUDIO 1.0E	Web Camera Function
Windows® 98SE	—	—
Windows® Me	—	—
Windows® 2000	○ [SP4]	○ [SP4]
Windows® XP	○ [SP2]	○ [SP1/SP2]
CPU	Intel® Pentium® III 800MHz or higher	Intel® Pentium® III 450MHz or higher
Interface	USB port [USB2.0 High Speed recommended]	USB port

- About MotionSD STUDIO 1.0E
•This software is not compatible with a multi-boot environment. •This software is not compatible with a multi-CPU environment.
- Operation is not guaranteed on Microsoft® Windows® XP Media Center Edition, Tablet PC Edition and not compatible with 64-bit computers.
- About Web Camera Function
When this function is used, Windows® Messenger 5.0 or 5.1 or MSN Messenger 7.0 is necessary. (Not included)
- These software applications are not Macintosh compatible.
- Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

SPECIFICATIONS

	<i>D</i> <i>V</i> <i>D</i> <i>e</i> <i>c</i> <i>a</i> <i>m</i>
	D300/D250/D150
GENERAL	
Power Supply	DC 7.2 V/7.9 V
Power Consumption (SP mode, DVD-RAM)	D300: 4.6 W [EVF]/4.9 W [LCD] D250: 4.5 W [EVF]/4.8 W [LCD] D150: 3.5 W [EVF]/3.9 W [LCD]
Weight (w/o Battery)	D300: 585 g D250: 555 g D150: 480 g
Dimensions (W x H x D)	D300: 63 x 87 x 138 mm D250: 63 x 87 x 136 mm D150: 53 x 87 x 129 mm
LENS SECTION	
Image Sensor	D300: 1/6" CCD x 3 [800 k x 3 pixels, Total/630 k x 3 [4-3], 540 k x 3 [16-9] (Moving Picture)] 710 k x 3 [4-3], 540 k x 3 [16-9] [Still Picture] Effective) D250: 1/6" CCD x 3 [800 k x 3 pixels, Total/630 k x 3 [4-3], 380 k x 3 [16-9] (Moving Picture)] 530 k x 3 [4-3], 400 k x 3 [16-9] [Still Picture] Effective) D150: 1/6" CCD [800 k pixels, Total (Moving Picture) 400 k pixels [Still Picture]
F Value	D300/D250: F1.8 [WIDE] — F2.8 [TELE] D150: F1.8 [WIDE] — F3.9 [TELE]
Optical Zoom	D300/D250: 10x Variable Speed Zoom D150: 30x Variable Speed Zoom
Focal Length	D300: 3.00 — 30.0 mm D250: 2.45 — 24.5 mm D150: 1.9 — 57 mm
Filter Diameter	D300/D250: 37 mm D150: 30.5 mm
Lens Brand	D300: Leica Dicomar D250/D150: Panasonic
CAMERA SECTION	
Minimum Illumination	D300/D250: 1 Lux [Colour Night View] D150: 2 Lux [Colour Night View]
Focus	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set
Iris	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow
Backlight Compensation	Yes
EVF	0.3" Colour [123 k pixels]
Monitor	D300/D250: 2.7" LCD [123 k pixels] D150: 2.5" LCD [105 k pixels]
Microphone	Stereo
Date Recording	Auto Date [in Data Code]
Fade Colour	Black/White
OSD Language	English/German/French/Italian/Spanish/Dutch/Swedish/ Polish/Czech
AWB IR Sensor	Yes
Image Stabiliser	D300: OIS D250/D150: SIS
Digital Zoom	D300/D250: 25x/700x D150: 50x/1000x
Cinema Mode	D300/D250: — D150: Yes
Self Timer	Yes [Only Photo]
DISC SECTION	
Applicable Disc	8 cm DVD-RAM Ver. 2.1/8 cm DVD-R for General Ver. 2.0/ 8 cm DVD-RW Ver1.1 2x-speed [2x/1x]
Moving Picture Recording Format	MPEG2: DVD Video Recording: DVD-RAM/-RW DVD Video: DVD-RW/-R
Audio Recording Format	Dolby Digital [Dolby AC3]
Audio Playback Format	Dolby Digital [Dolby AC3]/MPEG1 Audio Layer 2/LPCM
Recording Mode	XP/SP/LP XP: 9 Mbps/VBR, SP: 5 Mbps/VBR, LP: 2.5 Mbps/VBR
Recording Time	XP: 18 min/SP: 37 min/LP: 75 min [w/one side RAM disc]
Cue/Review	F/R
Skip	F/R
Jog Dial	w/Joy-Stick
Thumbnail Display	8 scenes/page
Editing	Delete/Divide/Combine
Counter	Linear Time Counter [Only scene unit]
Disc Remaining Indication	Yes
Speaker Volume	w/Zoom Volume
CARD SECTION	
Card Slot	SD
Still Picture	D300: JPEG Picture size 2048 x 1512 3.1 MEGA or 1920 x 1080 [16:9] 2.0 MEGA or 1280 x 960 1.0 MEGA or 640 x 480 0.3 MEGA D250: JPEG Picture size 1760 x 1320 2.3 MEGA or 1760 x 992 [16:9] 1.7 MEGA or 1280 x 960 1.0 MEGA or 640 x 480 0.3 MEGA D150: JPEG Picture size 640 x 480 0.3 MEGA
Slide Show	Yes
DPOF/DCF	Yes
Disk Navigation	Yes
TERMINALS	
S-Video Output	Out
Video Output	Out
Audio Output	Out
Microphone (stereo mini)	D300/D250: Yes D150: —
USB	2.0 High Speed
Accessory Shoe	D300/D250: Cold D150: —
Tally LED	D300/D250: Yes D150: —
Access LED [DSC]	Yes
STANDARD ACCESSORIES	
AC Adaptor	Yes [1 Battery Charge Type]
Battery Pack	Lithium-Ion
Shoulder Strap	D300/D250: Yes D150: —
AV Cable	AV/S Multi
IR Remote	D300/D250: Yes D150: —
PC Cable	D300/D250: Yes D150: —
Lens Cap	D300: — D250/D150: Yes
CD-ROM	D300/D250: DVD-MovieAlbumSE 4.2 DVDfunSTUDIO 2.4 D150: —

	<i>e</i> <i>c</i> <i>a</i> <i>m</i>		<i>S</i> <i>D</i> <i>e</i> <i>c</i> <i>a</i> <i>m</i>
	GS500/GS300/GS180	GS27	S100
GENERAL			
Power Supply	DC 7.2 V/7.9 V	DC 7.2 V/7.9 V	DC 7.4 V/9.3 V
Power Consumption	GS500: 4.2 W [EVF]/4.5 W [LCD] GS300/GS180: 3.6 W [EVF]/3.9 W [LCD]	2.5 W [EVF]/3.1 W [LCD]	3.5 W
Weight (w/o Battery)	GS500: 570 g GS300: 450 g GS180: 410 g	410 g	243 g
Dimensions (W x H x D)	GS500: 91 x 73 x 153 mm GS300: 76 x 73 x 135 mm GS180: 71 x 73 x 123 mm	82 x 69 x 120 mm	49.9 x 96.7 x 80.4 mm
LENS SECTION			
Image Sensor	GS500: 1/4.7" CCD x 3 [1070 k x 3 pixels, Total/690 k x 3 [4-3], 710 k x 3 [16-9] (Moving Picture)]/990 k x 3 [4-3], 740 k x 3 [16-9] [Still Picture] Effective) GS300: 1/6" CCD x 3 [800 k x 3 pixels, Total/630 k x 3 [4-3], 540 k x 3 [16-9] (Moving Picture)]/710 k x 3 [4-3], 540 k x 3 [16-9] [Still Picture] Effective) GS180: 1/6" CCD x 3 [800 k x 3 pixels, Total/400 k x 3 [4-3], 460 k x 3 [16-9] (Moving Picture)]/530 k x 3 [4-3] [Still Picture] Effective)	1/6" CCD [800 k pixels, Total/(Moving Picture), 400 k Effective]	1/6" CCD x 3 [800 k x 3 pixels, Total/ 630 k x 3 [4-3], 550 k x 3 [16-9] (Moving Picture)]/ 710 k x 3 [4-3], 540 k x 3 [16-9] [Still Picture] Effective)
F Value	GS500: F1.6 [WIDE]/F2.8 [TELE] GS300/GS180: F1.8 [WIDE]/F2.8 [TELE]	F1.8 [WIDE]/F3.9 [TELE]	F1.8 [WIDE]/F2.8 [TELE]
Optical Zoom	GS500: 12x Variable Speed Zoom GS300/GS180: 10x Variable Speed Zoom	30x Variable Speed Zoom	10x Variable Speed Zoom
Focal Length	GS500: 3.3 — 39.6 mm GS300: 3.0 — 30.0 mm GS180: 2.45 — 24.5 mm	1.90 — 57.0 mm	3.0 — 30.0 mm
Filter Diameter	GS500: 43 mm GS300/GS180: 37 mm	30.5 mm	37 mm
35 mm Film Camera Equivalent	GS500: 45 — 540 mm [4.3]/41.8 — 501 mm [16:9] (Moving Picture) 37.6 — 451 mm [4.3]/41.0 — 492 mm [16:9] [Still Picture] GS300: 46.1 — 461 mm [4.3]/47.1 — 471 mm [16:9] (Moving Picture) 43.4 — 434 mm [4.3]/47.0 — 470 mm [16:9] [Still Picture] GS180: 47.1 — 471 mm [4-3] (Moving Picture) 41.1 — 411 mm [4-3] [Still Picture]	35.7 — 1072 mm	46.1 — 461 mm [4.3]/ 47.1 — 471 mm [16:9] (Moving Picture) 43.4 — 434 mm [4.3]/ 47.0 — 470 mm [16:9] [Still Picture]
Lens Brand	GS500/GS300: Leica Dicomar GS180: Panasonic	Panasonic	Leica Dicomar
CAMERA SECTION			
Minimum Illumination	GS500: 2 Lux [Colour Night View] GS300/GS180: 1 Lux [Colour Night View]	2 Lux [Colour Night View]	1 Lux [Colour Night View]
Focus	GS500: AF/Manual [w/Ring] GS300/GS180: AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set [with IR Sensor]		
High-Speed Shutter	GS500: Tape Mode: 1/50 — 1/8000 sec. Card Mode: 1/2 — 1/2000 sec. GS300: Tape Mode: 1/50 — 1/8000 sec. Card Mode: 1/25 — 1/2000 sec. GS180: Tape Mode: 1/50 — 1/8000 sec. Card Mode: 1/25 — 1/500 sec.	Tape Mode: 1/50 — 1/8000 sec.	Moving Picture: 1/50 — 1/8000 sec. Still Picture: 1/25 — 1/2000 sec.
Iris	Auto/Manual	Auto/Manual	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow		
Backlight Compensation	Yes	Yes	Yes
EVF	GS500: 0.3" Colour [123 k pixels] GS300/GS180: 0.33" Colour [113 k pixels]	0.33" B/W [67 k pixels]	—
Monitor	GS500/GS300: 2.7" 16:9 LCD [123 k pixels] GS180: 2.5" LCD [113 k pixels]	2.5" LCD [105 k pixels]	2.8" LCD [206 k pixels]
Microphone	Stereo Zoom Mic, Wind Noise Reduction		
Date Recording	Auto Date [in Data Code]	Auto Date [in Data Code]	Auto Date [in Data Code]
Fade Colour	Black/White	Black/White	—
Rec. Review	Yes	Yes	—
OSD Language	English/Russian/Arabic/Persian/Chinese [Traditional]		English
Image Stabilizer	GS500/GS300: OIS GS180: SIS	SIS	OIS
Digital Zoom	GS500: 12x—30x [Super Digital Zoom 12x—700x] GS300: 10x—25x [Super Digital Zoom 10x—700x] GS180: 10x—20x [Super Digital Zoom 10x—500x]	30x—50x [Super Digital Zoom 30x—1000x]	10x—25x [Super Digital Zoom 10x—700x]
LED Video Light	—	—	—
Flash	GS500: Guide No. 5.3 GS300: Guide No. 4.8 GS180: —	—	Guide No. 4.5
Quick Start	1.7 sec. [approx.]	1.7 sec. [approx.]	1.5 sec. [approx.]
LCD Panel Light	Yes	—	—
WEB Camera Function	Motion JPEG 320 x 240 approx. 6 fps		
CARD SECTION			
Card Slot	SD	—	SD
Still Picture	GS500: JPEG Picture size 2288 x 1728 4.0 MEGA or 2288 x 1288 [16:9] 3.0 MEGA or 1600 x 1200 2.0 MEGA or 1280 x 960 1.0 MEGA or 1280 x 720 [16:9] 1.0 MEGA or 640 x 480 0.3 MEGA or 640 x 360 [16:9] 0.2 MEGA GS300: JPEG Picture size 2048 x 1512 3.1 MEGA or 2048 x 1152 [16:9] 2.4 MEGA or 1600 x 1200 2.0 MEGA or 1280 x 960 1.0 MEGA or 640 x 480 0.3 MEGA or 640 x 360 [16:9] 0.2 MEGA GS180: JPEG Picture size 1760 x 1320 2.3 MEGA or 1280 x 960 1.0 MEGA or 640 x 480 0.3 MEGA	—	JPEG Picture size 2048 x 1512 3.1 MEGA or 1920 x 1080 [16:9] 2.1 MEGA or 1280 x 960 1.2 MEGA or 640 x 480 0.3 MEGA
DPOF	Max 999 stills	—	Max 999 stills
Consecutive Photoshot	GS500: 10 stills with 0.7 sec. interval, 0.2 MEGA or 0.3 MEGA GS300: 10 stills with 0.5 sec. interval, 0.2 MEGA or 0.3 MEGA GS180: 10 stills with 0.5 sec. interval, 0.3 MEGA	—	—
PictBridge	Yes	—	Yes
RECORDING SECTION			
Format	DVC - SD	DVC	SD
Recording Mode	SP/LP	SP/LP	XP/SP/LP
Playback Mode	SP/LP	SP/LP	XP/SP/LP
Variable Speed Search	Max. 20x Speed	Max. 20x Speed	—
Audio Recording System	PCM 12 bit 4 ch/16 bit 2 ch	PCM 12 bit 4 ch/16 bit 2 ch	MPEG1-Layer2
Audio Dubbing	Yes	—	—
Counter	Time Code	Time Code	Linear Time Counter
Tape [Card] Remaining Indication	Yes	Yes	Yes
INTERFACE			
S-Video Output	Out	—	Out
AV Output	GS500/GS300: Out [Multi] GS180: Out [mini]	Out [mini]	Out [Multi]
Microphone (stereo mini)	Yes	—	—
Headphones	GS500/GS300: — GS180: Yes	—	Yes
USB	2.0 High Speed [mini B]	2.0 Full Speed [mini B]	2.0 High Speed [mini B]
DV Input/Output [IEEE1394]	In/Out	Out	—
Accessory Shoe	GS500: Hot GS300/GS180: Cold	—	—
STANDARD ACCESSORIES			
AC Adaptor	Yes [1 Battery Charge Type]	Yes [1 Battery Charge Type]	Yes
Battery Pack	Lithium-Ion	Lithium-Ion	Lithium-Ion
Strap	Yes [Shoulder Belt]	—	Yes [Hand Strap]
Free-style Remote Controller	GS500/GS300: Yes GS180: —	—	—
IR Remote	GS500/GS300: Yes GS180: —	—	Yes
AV Cable	GS500/GS300: AV/S Multi GS180: AV 4pin	AV 4pin	AV/S Multi
Lens Cap	GS500/GS180: Yes GS300: —	Yes	—
Memory Card	—	—	SD 2GB
PC Cable	USB	—	USB
CD-ROM	GS500/GS300/GS57: SweetMovieLife 1.0E MotionDV STUDIO 5.3E LE for DV GS180: MotionDV STUDIO 5.3E LE for DV GS27: —	MotionDV STUDIO 5.4E LE for DV	MotionSD STUDIO 1.0E

SD Memory Card Compatibility for Moving Picture Recording [S100]

Capacity	High Speed		Super High Speed	Pro High Speed
	2MB/S	5MB/S	10MB/S	20MB/S
2GB	—	○ RP-SDQ02G	—	○ RP-SDK02G
1GB	—	○ RP-SDQ01G	—	○ RP-SDK01G
512MB	—	—	—	○ RP-SDK512
256MB	—	—	○ RP-SDH256	—

As of January 4, 2006

We recommend using SD Memory Cards made by Panasonic for moving picture recording. Please confirm the latest information about SD Memory Cards that can be used for moving picture recording, on the following website.
http://panasonic.co.jp/pavc/global/cs/e_cam [This website is in English only.]

While every effort has been made to represent product colours accurately, slight variation may occur due to the printing process.

SD Memory Card Moving Picture Recording Time [approx.] [S100]

Image Quality	Capacity			
	2GB*	1GB*	512MB*	256MB*
XP [Super Fine]	25 min	12 min	6 min	3 min
SP [Fine]	50 min	25 min	12 min	6 min
LP [Normal]	1 h 40 min	50 min	25 min	12 min

*These figures vary depending on the pictures being recorded.
*Usable capacity will be less

•Weight and dimensions shown are approximate. •Design, functions, and specifications are subject to change without notice. •All monitor and TV pictures are simulated. •Some accessories are not available in some countries. •The tape recording video cameras are compatible only with tapes that bear the Mini DV logo. •These video cameras are based on the Standard Definition [SD] format of the "Consumer-Use Digital VCR Specifications" agreed upon by the HD Digital VCR Conference. •Leica is a registered trademark of Leica Microsystems IR GmbH. •Dicomar is a registered trademark of Leica Camera AG. •Microsoft®, Windows®, and NetMeeting® are registered trademarks of Microsoft Corporation of the U.S.A. •All other company and product names are trademarks of their respective corporations.



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