Panasonic ideas for life

2006 DIGITAL VIDEO CAMERA











3CCD Camera System	O.I.S. (Optical Image Stabliser)
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)







Crystal Engine
10x Optical zoom





Pure Colour Engine	30x Optical zoom

Advanced Imaging Technologies for Beautiful Results

detail and gradation 3CCD Camera System



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.





LEICA DICOMAR Lens

The e.cam boasts a Leica Dicomar lens. LEICA This advanced lens captures clear, crisp, DICOMAR 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 Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.





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 0.1.S. system automatically activates.





0.I.S. 0N

OLS OFF

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 equivalant)

30x 1072mm (35mm film camera equivalant)



High-performance image processing Crystal Engine & Pure Colour Engine



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







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

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

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.



Control buttons are centrally arranged Joystick

▶ The Help Mode Explains the Icons



♦The GS180 has no Help Mode

Multilingual Menu

	TAIRS	Democh
ю	Plampalk	hahets.
	Elsenter.	Nuderlands -
	Everalite	Pullet :

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

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. OThe GS180 has a Quick Start Button.

Improved grip for easy one-handed shooting

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 65500

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





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.

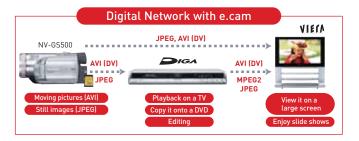
*Video Class is a standard format that allows the real-time transfer of moving picture data over a USB cable. GS27:USB 2.0 (FS Mode)



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

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)
- •OLux 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

	DVD	e .cam		e .c.	am		SD e.cam
	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	Сар	Cap	Auto	Сар	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

		DVDe	2.cam		e .c	am		SD e.cam
Accessories	Model No.	D300/D250	D150	GS500	GS300	GS180	GS27	S100
POWER								
Rechargeable	CGR-DU06 (7.2V/640mAh)			1 h 05 min	1 h 15 min	1 h 15 min	1 h 50 min	
Lithium-Ion Battery Pack*1	CGA-DU07 (7.2V/680mAh)			1 h 05 min	1 h 20 min	1 h 20 min	1 h 55 min	
Battery Life: Continuous Recording	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	
(Using the Viewfinder) Ambient Temperature: 25°C	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	
Ambient Humidity: 60%	CGA-DU21 (7.2V/2040mAh)	D300: 2 h 05 min*2 D250: 2 h 10 min*2 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								
	VW-LT3014E		•				•	
Tele Conversion Lens	VW-LT3714ME	•			•	•		•
	VW-LT4314NE			•				
	VW-LW3007E		•				•	
Wide Conversion Lens	VW-LW3707M3E	•			•	•		•
	VW-LW4307ME			•				
MC Protector	VW-LMC30E		•				•	
ND Filter	VW-LND30E		•				•	
Filter Kit	VW-LF37WE	•			•	•		
Tittel Kit	VW-LF43WE			•				
Stereo Zoom Microphone	VW-VMH3E			•				
Stereo Microphone	VW-VMS2E	•		•	•	•		
Video Flash	VW-FLH3E			•				
Tripod	VW-CT45E	•	•	•	•	•	•	•
Video DC Light	VW-LDH3E			•				
Video DC Light	VW-LDC10E	•		•	•	•		
Light Bulb for Video DC Light	VW-LL3E (for VW-LDH3E)			•				
Light But for video be Light	VZ-LL10E (for VW-LDC10E)	•		•	•	•		
Jacket Pouch	VW-SJ05E			•	•	•		
DATA TRANSFERRING & RECORDING								
SD Memory Card	RP-SDK02G/01G/512/SDH256/SD128/064/032 RP-SDQ02G/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								
	pacity	2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2048 x 1512	i	1290	630	320	160	75	39	18
pixels	÷	2010	990	490	250	120	61	29
1920 x 1080		1680	820	410	210	98	51	24
pixels [16:9]		2630	1290	650	330	155	81	39
1280 x 960	Ť	3160	1550	780	390	185	97	47
pixels	.	5030	2470	1230	620	300	155	75
640 x 480	\blacksquare	14080	7040	3520	1760	880	440	220

28160 14080 7040

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

3520 1760 880 440

D150								
Image Quality	pacity	2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
640 x 480	i	13830	6800	3400	1710	820	430	210
pixels		27660	13600	6790	3430	1650	870	420
GS500								
Image Quality	pacity	2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2288 x 1728	*	990	480	240	120	57	30	14
pixels		1560	770	380	190	91	47	22
2288 x 1288	i	1330	650	330	165	78	40	19
pixels [16:9]		2090	1030	510	260	125	64	30

mage Quality	_	200	100	3121110	2301110	120110	04111	OZIVID
2288 x 1728	*	990	480	240	120	57	30	14
pixels		1560	770	380	190	91	47	22
2288 x 1288	i	1330	650	330	165	78	40	19
pixels [16:9]		2090	1030	510	260	125	64	30
1600 x 1200		2050	1010	500	250	120	63	30
pixels		3160	1550	780	390	185	98	47
1280 x 960	Ě	3160	1550	780	390	185	98	47
pixels		5030	2470	1230	620	300	155	75
1280 x 720		4250	2090	1040	530	250	130	64
pixels [16:9]		6510	3200	1600	810	390	200	98
640 x 480	i	14080	7040	3520	1760	880	440	220
pixels		28160	14080	7040	3520	1760	880	440
640 x 360		14080	7040	3520	1760	880	440	220
pixels [16:9]	.÷.	28160	14080	7040	3520	1760	880	440

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

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

mage Quality Ca	pacity	2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
2048 x 1512		1280	630	310	155	75	38	18
pixels		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	i	3160	1550	770	390	185	96	45
		5030	2470	1230	620	300	155	73
640 x 480		13820	6790	3390	1710	820	430	200
pixels		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	0	0	○(SP4)
Windows® XP	0	0	○(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®.

The supplied software can not be used on Macintosh®.

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The supplied software can not be used on Macintosh®.

The supplied software.

The supplied software is supplied softwar

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	_	O*1
Windows® 2000	_	O*1
Windows® XP	O*1*2	O*1
CPU	Intel® Pentium® Ⅲ 450MHz or higher	Intel® Pentium® Ⅲ 300MHz or higher

- **USB equipment operates with the driver installed as standard in the OS. *2 The driver operates as Read only.

 **USB capiling is sold separately.

 **DirectX will be installed automatically during installation of the supplied software.

 **DirectX will be installed automatically during installation of the supplied software.

 **Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks on trademarks or trademar

GS500/GS300

65500/65300				
	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	_	_	0	
Windows® 2000	(SP4)	O (SP4)	0	
Windows® XP	(SP2)	O (SP1/SP2)	0	
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	_	_	0	0
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 is available. In DV connection: Capturing images to a PC is available. In DV connection: Capturing images to a PC is available.

 Supplied D-ROM is available for Windows® only.

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 **Apple®, Mac OS®, i)Move@MJ, FireWire® are either registered trademarks or trademarks of Apple Computer, Inc. in the United States and/or 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 STUD	10 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	_	_	*	0
Windows® Me	_	_	-*	0
Windows® 2000	O (SP4)	O (SP4)	-*	0
Windows® XP	○ (SP1/SP2)	○ (SP1/SP2)	○ (SP1/SP2)	0
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-GS180EG/E/EB/ECP/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.

G527		
	Web Camera Function	iMovie® 4/iMovie® HD
Interface	USB 1.1 or later	DV (FireWire®)
Windows® 98SE	-	
Windows® Me	-	
Windows® 2000	_	
Windows® XP	O (SP2)	
CPU	Intel® Pentium® Ⅲ 450MHz or higher	
Mac OS® X v10.3~10.4	_	O*
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.

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 *Apple®, Mac OS®, Movie®/Movie® HD, FireWire® are either registered trademarks or trademarks of Apple Computer, Inc. in the United States and/or other countries.

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100			
	MotionSD STUDIO 1.0E	Web Camera Function	
Windows® 98SE	_	_	
Windows® Me	-	_	
Windows® 2000	○ (SP4)	○ (SP4)	
Windows® XP	○(SP2)	○ (SP1/SP2)	
CPU	Intel® Pentium® <u>III</u> 800MHz or higher	Intel® Pentium® <u>III</u> 450MHz or higher	
Interface	USB port (USB2.0 High Speed recommended)	USB port	

Interface USB port (USB.2.0 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® VP 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.

	DVD e.cam
CENEDAL	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 D300: 63 x 87 x 138 mm D250: 63 x 87 x 136 mm
Dimensions (W x H x D)	D150: 53 x 87 x 129 mm
LENS SECTION	D300: 1/6" CCD x 3 [800 k x 3 pixels, Total/630 k x 3 [4:3],
Image Sensor	150 CLD X 3 (Bes) Moving 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	DOOD/DOED 11 out (Colour Nicks View)
Minimum Illumination Focus	D300/D250: 1 Lux (Colour Night View) D150: 2 Lux (Colour Night View) AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set
Iris Scono Modo	Auto/Manual
Scene Mode Backlight Compensation	Sports/Portrait/Low Light/Spot Light/Surf & Snow 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 Date Recording	Stereo Auto Date (in Data Code)
Fade Colour	Black/White
OSD Language	English/German/French/Italian/Spanish/Dutch/Swedish/ Polish/Gzech
AWB IR Sensor	Yes
Image Stabiliser	D300: OIS D250/D150: SIS
Digital Zoom Cinema Mode	D300/D250: 25x/700x D150: 50x/1000x 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 Audio Playback Format	Dolby Digital [Dolby AC3] 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 Skip	F/R F/R
Jog Dial	w/Joy-Stick
Thumbnail Display	8 scenes/page
Editing Counter	Delete/Divide/Combine Linear Time Counter (Only scene unit)
Disc Remaining	Yes
Indication	
Speaker Volume CARD SECTION	w/Zoom Volume
Card Slot	SD
Still Picture	D300. JPEG Picture size 2048 x 1512 3.1 MEGA or 1920 x 1000 (1.6.9) 2.0 MEGA or 1280 x 960 1.0 MEGA or 4.0 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
Slide Show	D150: JPEG Picture size 640 x 480 0.3 MEGA Yes
DPOF/DCF	Yes
Disk Navigation	Yes
TERMINALS	0.4
S-Video Output Video Output	Out Out
Audio Output	Out
Microphone (stereo mini)	D300/D250: Yes D150: —
USB Accessory Shoe	2.0 High Speed D300/D250: Cold D150: —
Tally LED	D300/D250: Cotd D150: — D300/D250: Yes D150: —
Access LED (DSC)	Yes
STANDARD ACCESSORIES	Vac (1 Rattery Charge Type)
AC Adaptor Battery Pack	Yes (1 Battery Charge Type) Lithium-lon
Shoulder Strap	D300/D250: Yes D150: —
AV Cable	AV/S Multi
IR Remote	D300/D250: Yes D150: — D300/D250: Yes D150: —
	D300: — D250/D150: Yes
PC Cable Lens Cap CD-ROM	

	e .cam		SD e.cam
	GS500/GS300/GS180	GS27	S100
GENERAL	DC 7.2 V/7.9 V	DC 7.2 V/7.9 V	DC 7.4 V/9.3 V
Power Supply Power Consumption	6S500: 4.2 W (EVF)/4.5 W (LCD) 6S300/6S180: 3.6 W (EVF)/3.9 W (LCD)	2.5 W (EVF)/3.1 W (LCD)	3.5 W
Weight (w/o Battery)	GS300/GS180: 3.6 W (EVF)/3.9 W (LCD) 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	GS180: 71 x 73 x 123 mm	82 X 87 X 120 IIIIII	47.7 % 76.7 % 60.4 11111
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), (5:300, 460 k x 1 (1:5) [Still Picture] Effective (5:300, 460 k x 1 (1:5) [Still Picture] Effective (5:300 k x 3 (16:9) [Moving Picture]/710 k x 3 (4:3), (5:40 k x 3 (16:9) [Moving Picture]/710 k x 3 (4:3), (5:40 k x 3 (16:9) [Moving Picture]/510 k x 3 (4:3), (5:40 k x 3 (16:9) [Moving Picture]/510 k x 3 (4:3), (5:40 k x 3 (16:9) [Moving Picture]/510 k x 3 (4:3),	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 Picturel/ 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 Filter Diameter	GS500: 3.3 - 39.6 mm GS300: 3.0 - 30.0 mm GS180: 2.45 - 24.5 mm GS500: 43 mm GS300/GS180: 37 mm	1.90 — 57.0 mm 30.5 mm	3.0 — 30.0 mm 37 mm
35 mm Film Camera Equivalent	65500.45 — 5.00 mm [6:3]46.18 — 501 mm [16:9] Moving Picturel 37.6 — 6.15 mm [4:3]41.0 — 4.92 mm [18:9] (Still Picturel) 65300.46.1 — 4.61 mm [4:3]47.1 — 4.71 mm [16:9] [Moving Picturel 43.4 — 4.34 mm [4:3]47.0 — 4.70 mm [16:9] [Still Picturel 65180.47.1 — 4.71 mm [4:3] [Moving Picturel 41.1 — 4.11 mm [4:3] [Still Picturel	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 CAMERA SECTION	GS500/GS300: Leica Dicomar GS180: Panasonic	Panasonic	Leica Dicomar
Minimum Illumination	GS500: 2 Lux (Colour Night View)	2 Lux (Colour Night View)	1 Lux (Colour Night View)
Focus	GS300/GS180: 1 Lux (Colour Night View) GS500: AF/Manual (w/Ring) GS300/GS180: AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Ar/Mandat	Ar/Manuat
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 Backlight Compensation	Sports/Portrait/Low Light/Spot Light/Surf & Snow 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 Date Recording	Stereo Zoom Mic, Wind Noise Reduction	Auto Date (in Data Code)	Auto Date (in Data Code)
Fade Colour	Auto Date (in Data Code) Black/White	Black/White	— Auto Date (in Data Code)
Rec. Review OSD Language	Yes English/Russian/Arabic/Persian/Chinese (Traditional)	Yes	— 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 WEB Camera Function	Yes Motion JPEG 320 x 240 approx. 6 fps	-	_
CARD SECTION			
Card Slot	SD GS500: JPEG Picture size 2288 x 1728 4.0 MEGA or	_	SD
Still Picture	2288 x 1288 [16-9] 3.0 MEGA or 1.600 x 1200 2.0 MEGA or 1280 x 950 1.0 MEGA or 1250 x 720 11.9 10.4 MEGA or 6.400 x 480 0.3 MEGA or 1260 x 720 11.9 10.4 MEGA or 6.400 x 480 0.3 MEGA or 6.400 x 480 1.3 MEGA or 1.600 x 1200 2.0 MEGA or 1260 x 152 [16-9] 2.4 MEGA or 1.600 x 1200 2.0 MEGA or 1280 x 950 1.0 MEGA or 640 x 480 0.3 MEGA or 640 x 360 [16-9] 0.2 MEGA or 1280 x 950 1.0 MEGA or 640 x 480 0.3 MEGA or 640 x 360 [16-9] 0.2 MEGA 0.1200 x 1200 x 950 1.0 MEGA or 640 x 480 0.3 MEGA or 1280 x 950 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 0.3MEGA
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 Variable Speed Search	SP/LP Max. 20x Speed	SP/LP Max. 20x Speed	XP/SP/LP
Audio Recording System Audio Dubbing	PCM 12 bit 4 ch/16 bit 2 ch	PCM 12 bit 4 ch/16 bit 2 ch	MPEG1-Layer2
Counter	Yes Time Code	Time Code	Linear Time Counter
Tape (Card) Remaining Indication INTERFACE	Yes	Yes	Yes
S-Video Output	Out	_	Out
AV Output Microphone (stereo mini)	GS500/GS300: Out [Multi] GS180: Out [mini] Yes	Out [mini]	Out (Multi)
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)		Out	-
Accessory Shoe STANDARD ACCESSORIES	GS500: Hot GS300/GS180: Cold	_	_
AC Adaptor Battery Pack	Yes (1 Battery Charge Type) Lithium-lon	Yes (1 Battery Charge Type) Lithium-lon	Yes Lithium-lon
Strap	Yes (Shoulder Belt)	_	Yes (Hand Strap)
Free-style Remote Controller	GS500/GS300; Yes GS180; —	_	- Yes
IR Remote AV Cable	GS500/GS300: Yes GS180: — GS500/GS300: AV/S Multi GS180: AV 4pin	AV 4pin	AV/S Multi
Lens Cap Memory Card	GS500/GS180: Yes GS300: —	Yes	– SD 2GB
PC Cable	USB	_	USB
CD-ROM	GS500/GS300/GS57: SweetMovieLife 1.0E MotionDV STUDIO 5.6E LE for DV GS180: MotionDV STUDIO 5.3E LE for DV GS27: — GS2		MotionSD STUDIO 1.0E

SD Memory Card Compatibility for Moving Picture Recording [S100] SD Memory Card Moving Picture Recording Time (approx.) [S100]

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

25 min SP (Fine) 50 min 25 min 12 min 1 h 40 min

2GB*

Image Quality

XP (Super Fine)

Capacity

512MB*

6 min

256MB*

1GB*

12 min

50 min

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

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 3 min 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. 6 min 12 min Panasonic





•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