SPECIFICATIONS

DVD e.cam — 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/400 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/Russian/Arabic/Persian/Chinese (Traditional)
AWB IR Sensor	Yes
Image Stabilizer	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

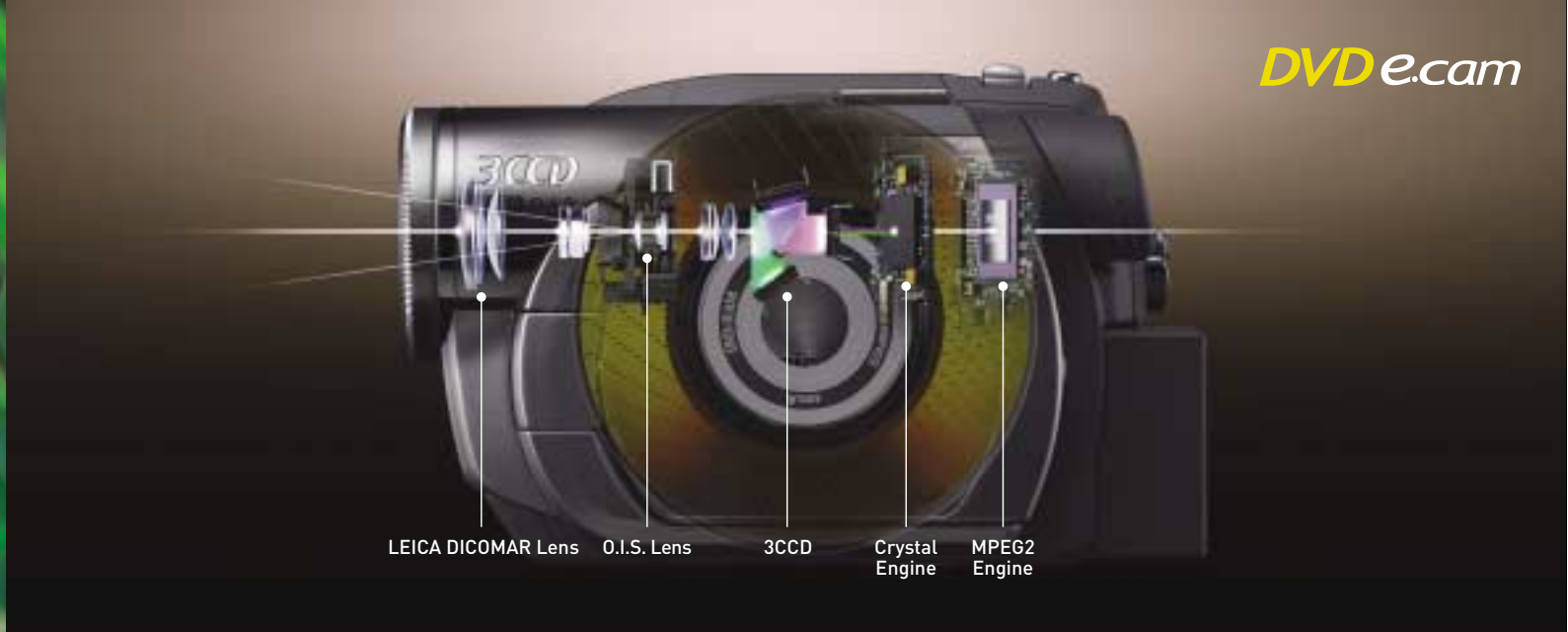|	
AC Adaptor	Yes (1 Battery Charge Type)
Battery Pack	Lithium-Ion
Shoulder Strap	D300/D250: Yes D150: —
AV Cable	AV/S Multi
IR Remote	D300/D250: Yes D150: —
PC Cable	D300/D250: Yes D150: —
Lens Cap	D300: — D250/D150: Yes
CD-ROM	D300/D250: DVD-MovieAlbumSE 4.2 DVDfunSTUDIO 2.4 D150: —

e.cam — GS500/GS300/GS180   ·   GS57/GS47/GS27 | SD e.cam — S100

GENERAL

	GS500/GS300/GS180	GS57/GS47/GS27	S100
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

	GS500/GS300/GS180	GS57/GS47/GS27	S100
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 (800 k pixels, Total/630 k x 3 [4:3], 540 k x 3 [16:9] (Moving Picture)/710 k x 3 [4:3], 530 k x 3 [16:9] (Still Picture) Effective) GS180: 1/6" CCD (800 k 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

	GS500/GS300/GS180	GS57/GS47/GS27	S100
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)	GS57: 0.33" Colour (113 k pixels) GS47/GS27: 0.33" B/W (67 k pixels)	—
Monitor	GS500/GS300: 2.7" 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: SIS 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	—	GS57: Yes GS47/GS27: —	—
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

	GS500/GS300/GS180	GS57/GS47/GS27	S100
Card Slot	SD	GS57/GS47: SD GS27: —	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 0.3MEGA 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	GS57/GS47: JPEG Picture size 640 x 480 0.3MEGA GS27: —	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	GS57/GS47: Max 999 stills GS27: —	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	GS57/GS47: 10 stills with 0.5 sec. interval, 0.3 MEGA GS27: —	—
PictBridge	Yes	—	Yes

RECORDING SECTION

	GS500/GS300/GS180	GS57/GS47/GS27	S100
Format	DVC - SD	GS57/GS47: DVC - SD GS27: 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	GS57/GS47: Yes GS27: —	—
Counter	Time Code	Time Code	Linear Time Counter
Tape (Card) Remaining Indication	Yes	Yes	Yes

INTERFACE

	GS500/GS300/GS180	GS57/GS47/GS27	S100
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: HP Out or AV Out	—	HP Out or AV Out
USB	2.0 High Speed (mini B)	GS57/GS47: 2.0 High Speed (mini B) GS27: 2.0 Full Speed (mini B)	2.0 High Speed (mini B)
DV Input/Output (IEEE1394)	In/Out	GS57/GS47: In/Out GS27: Out	—
Accessory Shoe	GS500: Hot GS300/GS180: Cold	—	—

STANDARD ACCESSORIES

	GS500/GS300/GS180	GS57/GS47/GS27	S100
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)	GS57/GS47: Yes GS27: —	Yes (Hand Strap)
Free-style Remote Controller	GS500/GS300: Yes GS180: —	—	—
IR Remote	Yes	GS57/GS47: Yes GS27: —	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	GS57/GS47: USB GS27: —	USB
CD-ROM	GS500/GS300/GS57/GS47: SweetMovieLife 1.0E MotionDV STUDIO 5.6E LE for DV GS180: MotionDV STUDIO 5.3E LE for DV GS27: —		MotionSD STUDIO 1.0E

Panasonic
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2006
DIGITAL VIDEO CAMERA

Panasonic

e.cam

http://panasonic.co.jp/pavc/global/videocamera/

DVD e.cam

● REC
3CCD
1CCD

● REC
O.I.S. ON
O.I.S. OFF

LEICA DICOMAR Lens O.I.S. Lens 3CCD Crystal Engine MPEG2 Engine

A 3CCD Camera System and O.I.S. in a DVD Video Camera.
Beautiful Images, Easy Operation.

Multi-Format Recording (DVD-RAM, DVD-R, DVD-RW)

VDR-D300

2.7" WIDE

3CCD Camera System	O.I.S. (Optical Image Stablizer)
LEICA DICOMAR Lens	Crystal Engine
3.1-Megapixel Still Picture Recording	2.7" Wide LCD
10x Optical Zoom	

Multi-Format Recording (DVD-RAM, DVD-R, DVD-RW)

VDR-D250

2.7" WIDE

3CCD Camera System	Crystal Engine
2.3-Megapixel Still Picture Recording	2.7" Wide LCD
10x Optical Zoom	

30x Optical Zoom **Multi-Format Recording** (DVD-RAM, DVD-R, DVD-RW)

VDR-D150

2.5"

Pure Colour Engine	30x Optical Zoom

Easy Shooting, Quick Editing and Convenient Viewing — That's DVD.

1 SHOOTING
No worries, no mistakes!
You never have to worry about accidentally erasing a recording or finding blank space on which to record. See page 5 for further information.

2 EDITING
Quick and easy on-the-spot shooting!
You can do some polished editing using just the camera itself before you finalise the disc. See page 5 for further information.

3 VIEWING
No cable needed!
Just take the disc from your DVD e.cam and slip it right into your DVD player or recorder. See page 7 for further information.


Advanced Imaging Technologies for Beautiful Results

Triple beauty - remarkable colour, detail and gradation 3CCD Camera System
D300 D250

Most professional broadcasting cameras use the 3CCD system. In a 1CCD system, all of the incoming light information is processed by the same CCD. The more advanced 3CCD system uses three distinct CCDs for processing, so there is absolutely no light loss. You can see the results in beautifully rendered images with vivid colour, fine detail, and rich gradation.

Optical Axis B CCD Optical Axis CCD
Dichroic Mirrors R CCD Colour Filter
G CCD

3CCD 1CCD
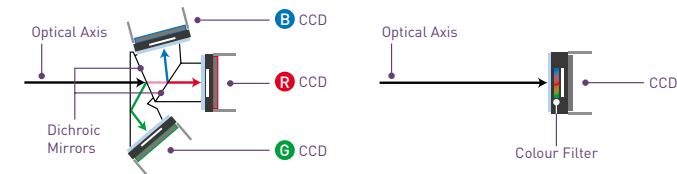
### Clear, beautiful moving pictures and still images O.I.S. (Optical Image Stabilizer)
D300

Panasonic's O.I.S. minimises the hand-shake that can be such a problem with handheld shots. Because Panasonic's system is optical, there is no image quality degradation. When you're shooting a still image, the MEGA O.I.S. system automatically activates, doubling* the corrective power. With O.I.S. and MEGA O.I.S., the DVD e.cam is equipped for clear, beautiful shooting of both moving pictures and still images.
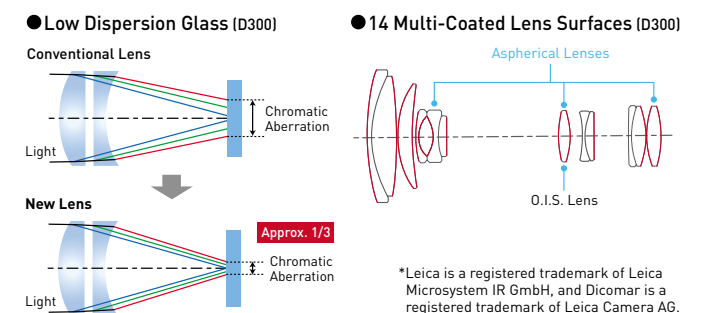
*Panasonic comparison

O.I.S. / MEGA O.I.S. Lens
The lens moves up/down or left/right and bends the incoming light to correct hand-shake.

O.I.S. ON O.I.S. OFF
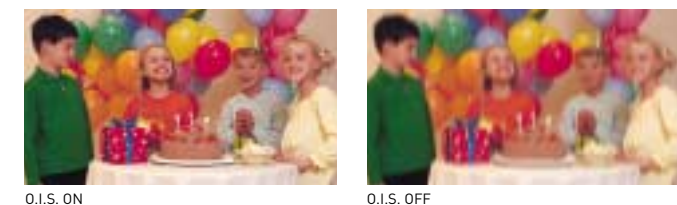
Superior Leica-certified image quality LEICA DICOMAR Lens
D300

LEICA DICOMAR Leica AG of Germany is the manufacturer of fine cameras and lenses favoured by photographers everywhere. The Leica Dicomar lens featured in the DVD e.cam was developed specifically for digital video cameras. Drawing on Leica's renowned optical technology, this advanced lens captures clear, crisp, finely nuanced images with outstanding detail and contrast. Thanks to a multi-coating applied during the manufacturing process, the lens also minimises flare and ghosts.

Clear, flare-free Image Image with flare

● **Low Dispersion Glass** (D300) ● **14 Multi-Coated Lens Surfaces** (D300)

Conventional Lens Aspherical Lenses
Light Chromatic Aberration

New Lens Approx. 1/3
Light Chromatic Aberration O.I.S. Lens

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

High-performance image processing Crystal Engine & Pure Colour Engine
D300 D250 D150

The Crystal Engine is a special image processing circuit for 3CCD camera systems. It processes the R,G and B signals from the three CCDs individually, so it gives both moving and still pictures exceptional quality. And the Pure Colour Engine converts the CCD output signal from a complementary colour signal into an RGB signal at an early stage and extracts the low-frequency luminance component from the RGB signal. This innovative engine also achieves truly superb colour reproduction for high-zoomed pictures.

D300/D250: Crystal Engine   D150: Pure Colour Engine

With Crystal Engine Without Crystal Engine Crystal Engine

## Capture even complex motion with precision MPEG2 Engine
D300 D250 D150

Panasonic's MPEG2 engine is a wide-range, high-precision search engine that produces smooth, beautiful moving pictures. Because it precisely records the differences in each frame, it can render fast, complex motions - like those of children in the thick of the action - with exceptional precision. The MPEG2 engine also uses the Variable Bit Rate system that Panasonic adopted for the high-end DIGA DVD recorder. Giving LP (long play mode) recordings nearly twice the resolution captured with previous Panasonic MPEG2 recording video cameras, this lets the DVD e.cam record clear, smoothly flowing pictures.

Model with MPEG2 engine   Conventional model

Powerful 30x Optical Zoom
D150

Enjoy remarkable 30x zoom magnification in a camera that fits comfortably and securely in one hand. This lens is not only the powerful zoom offered in a home-use digital video camera, it also features low distortion. And 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)
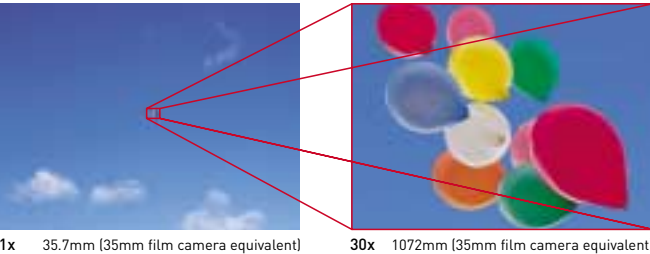
You can take breathtaking stills as well 3.1-Megapixel Still Picture Recording
D300

3.1 MEGA PIXEL STILL PICTURE RECORDING

The D300 records 3.1-megapixel still pictures. It captures all of the outstanding detail, colour and sensitivity. Whether you take still pictures in 16:9 wide mode or 4:3 mode, you get beautiful images. You can print beautiful photos as well as view slide shows on a TV in any mode you like.

PictBridge

PictBridge, the standard for direct printing, lets you connect the video camera directly to a printer and print out beautiful photos easily.

*D250: 2.3-megapixel still picture recording
*D250/D150: PictBridge Compatible

Shoot wide, view wide with High-Picture-Quality Wide Mode (16:9) and 2.7" Wide LCD
D300 D250

The D300 and D250 offer the High-Picture-Quality Wide Mode, which produces images that make for beautiful, dramatic viewing on a wide-screen TV. The image is processed on an area of the CCD with a wide 16:9 aspect ratio to increase the number of effective pixels. Because the image decoded has the same proportions as your wide-screen TV, there is virtually no picture quality degradation. You get beautiful images and all the excitement and dynamism on either a wide 16:9 screen TV or a conventional 4:3 screen TV. The D300 and D250 also feature a wide 2.7-inch LCD, making it easier to frame shots when you're shooting in 16:9 mode. You can enjoy shooting wide, and viewing wide.

On a 4:3 TV   On a 16:9 wide-screen TV

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

Control buttons are centrally arranged for easier use.

Joystick

Functions that Give You More Shooting Flexibility

Easy, Comfortable DVD Operation for Versatile Enjoyment

■ Multi-Format Recording (DVD-RAM, DVD-R, DVD-RW)
D300 D250 D150

MULTI-FORMAT RECORDING   DVD-RAM DVD-R DVD-RW

DVD e.cam models can record and play DVD-RAM, DVD-R and DVD-RW discs. With the DVD-RAM disc, you can record again and again on the same disc, up to tens of thousand times, and view it without any finalising process. You can record repeatedly on DVD-RW discs as well, and they are well suited to editing. While you can record only once on DVD-R discs, they can be played back on almost any kind of DVD player or recorder. With DVD e.cam's wide compatibility, you can record on whichever kind of disc works best in your DVD player or recorder.

> **DVD-RAM's Key Advantages**
> • Superior durability — withstands repeated recording.
> • No finalising is required before viewing.
>   You can watch the video you just shot without waiting.
> • No formatting required*. Just slip the disc in your DVD e.cam and start shooting.
> *AV formatted disc only.

■ Select from three recording modes (XP/SP/LP)
D300 D250 D150

This unit records in VBR. VBR is an abbreviation for Variable Bit Rate. VBR recording automatically varies the bit rate (amount of data in a fixed time) depending on the subject being recorded. This means if a subject with sharp movements is recorded, the recording time is reduced.

Moving Picture Recording Times (approx.)

Mode	XP	SP	LP
DVD-RAM (dual-sided) DVD-RW (dual-sided)	36 min.	74 min.	150 min.
DVD-R (single-sided)	18 min.	37 min.	75 min.

■ No need to find a blank disc space No worry about recording over a previous recording by mistake
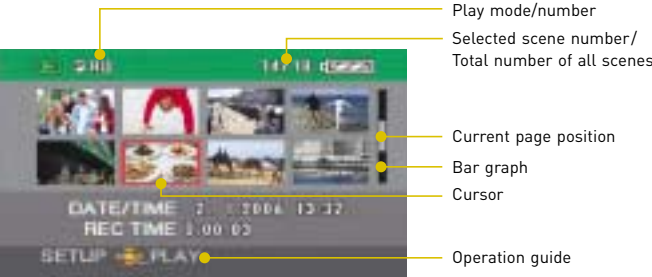D300 D250 D150

The DVD e.cam automatically searches for a blank section on the disc. So just press the button to start video shooting. There are no more worries about mistakenly recording over previously recorded parts.

■ Quick Search & Access with Disc Navigator
D300 D250 D150

Unlike videotape, you don't need to rewind or fast-forward a DVD disc to search for specific scenes. The video camera LCD screen displays a list of the recorded scenes for quick and easy searching.

Play mode/number
Selected scene number/ Total number of all scenes
Current page position
Bar graph
Cursor
Operation guide

■ Edit with Disc Navigator
D300 D250 D150

You can do some polished editing using just the camera itself. For example, you can delete scenes right on the spot or change the scene sequence to create your own scenarios.

Playlist Edit
It's easy to change the sequence of the scenes you've recorded, and then play them back. (You can record up to 99 sequencing patterns on each side of the disc for easy playback.)
*Playlist editing and playback can be done only with scenes on the same side of the disc.

Easy Deleting
This function makes it easy to delete the scenes you don't want and to save the ones you do. You can also split up moving pictures and delete only parts of them.

Easy for Anyone—Simple, One-Handed Operation

■ Operate the camera without looking away from your subject
D300 D250 D150

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.
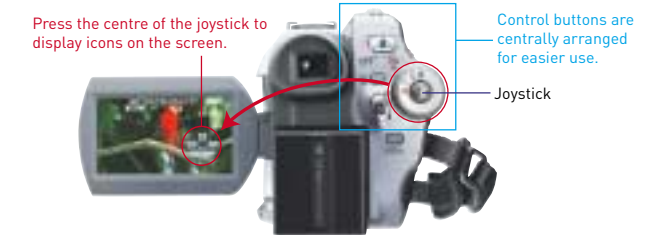
▶ Operation Icon Examples

	Backlight Compensation		FadeIN/FadeOUT
	Help Mode		Soft Skin Detail
	Tele Macro Mode		*Icon display varies depending on the model.

▶ Direct Mode Dial: A Quick, Easy Switch from Shooting to Playback
D300 D250 D150

Easy-to-understand icons indicate the modes for both disc and card recording and playback. Just rotate the dial with your fingertip to select the icon that corresponds to the mode you want.

	Recording	Playback
Moving Pictures	Disc Recording Mode	Disc Playback Mode
Still Pictures	Card Recording Mode	Card Playback Mode

▶ The Help Mode Explains the Icons
D300 D250

Not sure what a certain icon means? Just switch on the Help mode and select the icon. It's explained for you on the LCD monitor. This makes it easier to learn the icons, and you spend less time reading the operating manual.

Help mode explanation of Soft Skin Detail

More Fun After Shooting, Too
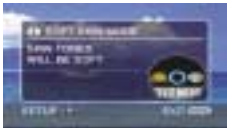
With Shooting This Easy, Even First-Timers Can Make Great Videos

■ Operate in the language you prefer Multilingual Menu
D300 | D250 | D150

The menu can be displayed in any of five languages. You can switch it to view all menus in the language you prefer for easy, comfortable operation.
(English/Russian/Arabic/Persian/Chinese)

■ Built-in Flash (GN4.8)* for great still shots even in dim lighting
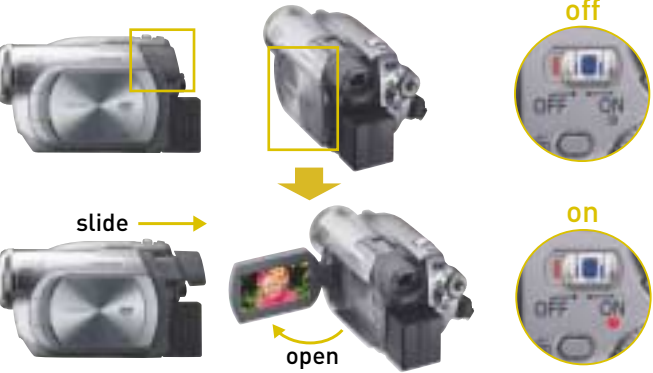D300

The D300 has a built-in flash that fires automatically when you press the Photoshot button. Even in dim lighting, you get vivid, detailed still images that take full advantage of the megapixel quality.

■ Easy On/Off saves battery life
D300 | D250

When you open the LCD, the power switches on. Shut it and the power goes off. Pull out the viewfinder and the power switches on. Store it and the power goes off. Easy On/Off reduces the time required for operating the camera.

off

slide

on

open

■ Helps prevent wasted shots AGS (Anti-Ground Shooting mode)
D300

The O.I.S. linear motor system can detect when the camera is in an unusual shooting position — such as when you've inadvertently left it on in recording mode. In these cases, the camera automatically stops recording, saving both battery power and disc space.

*This mode can be selected from the menu.

Records normally

Automatically stops recording
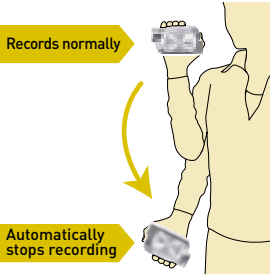
### ■ Auto Lens Cover Open/Close — No cap to worry about
D300

When the power is turned on, the lens cover automatically opens. When the power goes off, the lens cover closes. You don't have to keep removing and replacing a lens cap — or worry about losing it.

■ Easy to see — even outdoors Power LCD
D300 | D250

Simply press the Power LCD button and the LCD becomes brighter, making it easier to see outdoors or in other bright locations. Also, a new scanning technology allows the LCD to show diagonal lines more sharply.

OFF (Daylight Condition)

Power LCD Button

ON (**180%** Brightness)
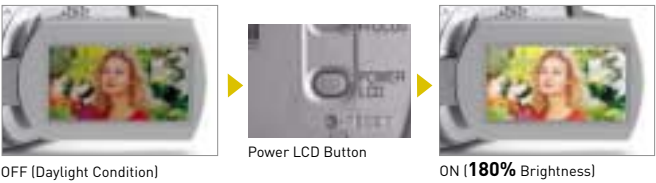
■ 0 Lux Colour Night View with Light Panel for shooting in total darkness
D300 | D250

Designed for shooting in total darkness, this function shoots four frames per second using the LCD monitor as a light source. Pictures are clear and sharp thanks to the hand-shake compensation provided by the O.I.S. Light from the LCD is gentle and easy on the eyes, so you can snap shots of sleeping children without waking them up. D150: Colour Night View (1Lux)

Light Panel

Colour Night View OFF

Colour Night View ON
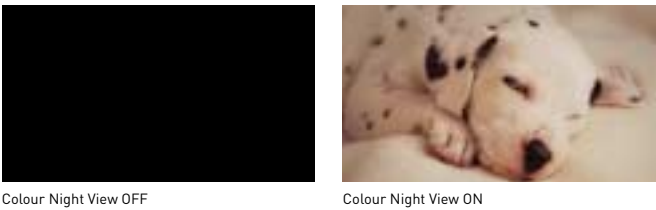
■ Give your subjects smoother looking skin Soft Skin Detail
D300 | D250 | D150

When this function detects skin tones, it softens the focus in that area. This has a skin beautifying effect, which makes wrinkles and lines appear less noticeable. When turned on, this function makes blemishes and moles look less conspicuous, while preserving resolution in areas of the picture outside of the skin.

ON

OFF

■ Take close-ups from a distance of 40 cm Tele Macro Mode
D250

Using the zoom at full magnification, you can shoot macro close-ups while maintaining a distance of 40 cm from your subject. This makes it much easier to capture extreme close-ups – equivalent to wide macro shots at 4 cm – without your body or camera casting a shadow on the subject and while keeping the background in soft focus.

*D300: a distance of 50cm

Start playback right away – no cables to connect
D300 | D250 | D150

The DVD e.cam gives you cable-free playback. Just slip the disc into your DVD player or recorder and let the show begin.

STEP **1**

STEP **2**

STEP **3**

*Finalising is required before playback when you record in video mode.

*Please note that, depending on the format, some DVD discs cannot be played on some DVD players or recorders.

Quick, comfortable editing, even with large-capacity discs High-Speed Data Transfer to a DVD Recorder
D300 | D250 | D150

With DVD's high-speed data transfer, you can dub your recordings — even with large volumes — quickly and easily onto a DVD video recorder's hard disk drive. Enjoy sophisticated editing with the DVD recorder, or save your recordings onto DVD and create a collection of your own DVDs.

Transfer data to a PC at high speed too USB 2.0 (HS Mode)
D300 | D250 | D150

USB 2.0 compatibility lets you upload a moving picture data to a PC at high speed over a single USB cable. Even if your PC has no DVD drive, you can transfer the data to a PC easily.

DVD-MovieAlbumSE 4.2/DVDfunSTUDIO 2.4

With DVD-MovieAlbumSE 4.2 software, which makes it easy to add titles and texts, you can create your own polished, professional-looking movies. And with DVDfunSTUDIO 2.4 software, you can burn your production onto a DVD disc for keepsakes. *D150 doesn't include DVD-MovieAlbumSE 4.2 software and DVDfunSTUDIO 2.4 software.

Use an SD Memory Card to transfer images easily
D300 | D250 | D150

SD Memory Cards are the ideal recording and storage media for today's visual communication and networking. They make it easy to instantaneously transfer image data to a PC or printer.

*Usable capacity will be less.

Digital Network with DVD e.cam

JPEG

VDR-D300

MPEG2* | MPEG2
JPEG | JPEG

Moving pictures (MPEG2) | Playback on a TV | View it on a large screen
Still images (JPEG) | Copy it onto a DVD | Enjoy slide shows
| Editing |

*Panasonic DVD recorder"DIGA", as these are MPEG2 compatible

VDR-D300

Accessory Shoe

Viewfinder

LEICA DICOMAR Lens

2.7" Wide LCD Monitor

Built-in Stereo Microphone

Remote Control Sensor

Mode Selector Switch

Power LCD Button

AV OUT Socket

Microphone Socket

Reset Button

USB Socket

Zoom Lever

Photoshot Button

Power Switch

Delete Button

ACCESS/PC Indicator

Mode Dial

DISC Eject Button

Battery Pack

Grip Belt

Recording Button

Joystick

Menu Button

Advanced Imaging Technologies for Beautiful Results

Enjoy Extended Viewing of Beautiful Images

NV-GS500

2.7" WIDE

3CCD Camera System	O.I.S. (Optical Image Stablizer)
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)
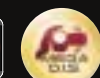
NV-GS300

2.7" WIDE

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

NV-GS180

2.5"

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

30x Optical Zoom NV-GS57

2.5"

Pure Colour Engine	30x Optical Zoom
Built-in LED Light	USB 2.0 (High Speed)

30x Optical Zoom NV-GS47

2.5"

Pure Colour Engine	30x Optical Zoom
USB 2.0 (High Speed)	

30x Optical Zoom NV-GS27

2.5"

Pure Colour Engine	30x Optical Zoom

Triple beauty - remarkable colour, detail and gradation
3CCD Camera System `GS500` `GS300` `GS180`

Most professional broadcasting cameras use the 3CCD system. In a 1CCD system, all of the incoming light information is processed by the same CCD. The more advanced 3CCD system uses three distinct CCDs for processing, so there is absolutely no light loss. You can see the results in beautifully rendered images with vivid colour, fine detail, and rich gradation.

3CCD   1CCD

Clear, beautiful moving pictures and still images
O.I.S. (Optical Image Stabilizer) `GS500` `GS300`

Panasonic's O.I.S. minimises the hand-shake that can be such a problem with handheld shots. Because Panasonic's system is optical, there is no image quality degradation. When you're shooting a still image, the MEGA O.I.S. system automatically activates, doubling* the corrective power. With O.I.S. and MEGA O.I.S., the e.cam is equipped for clear, beautiful shooting of both moving pictures and still images.

*Panasonic comparison

O.I.S. ON   O.I.S. OFF

Superior Leica-certified image quality
LEICA DICOMAR Lens `GS500` `GS300`

LEICA DICOMAR The e.cam boasts a Leica Dicomar lens. Developed specifically for digital video cameras and featuring original optical technology from Leica, maker of cameras and lenses renowned by photographers everywhere, 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 Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.

High-performance image processing
Crystal Engine & Pure Colour Engine `GS500` `GS300` `GS180` `GS57` `GS47` `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
GS57/GS47/GS27: Pure Colour Engine

With Crystal Engine   Without Crystal Engine   Crystal Engine

You can take breathtaking stills as well
4.0-Megapixel Still Picture Recording `GS500`

4.0 MEGA PIXEL STILL PICTURE RECORDING The GS500 records 4.0-megapixel still pictures. It captures all of the outstanding detail, colour and sensitivity. Whether you take still pictures in 16:9 wide mode or 4:3 mode, you get beautiful images. You can print beautiful photos as well as view slide shows on a TV in any mode you like. PictBridge, the standard for direct printing, lets you connect the video camera directly to a printer and print out beautiful photos easily.
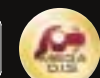
PictBridge

*GS300: 3.1-megapixel still picture recording GS180: 2.3-megapixel still picture recording
*GS300/GS180: PictBridge Compatible

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

Powerful 30x Optical Zoom `GS57` `GS47` `GS27`

Enjoy remarkable 30x zoom magnification in a camera that fits comfortably and securely in one hand. This lens is not only the powerful zoom offered in a home-use digital video camera, it also features low distortion. And because the zoom is optical, it captures both moving and still pictures with exquisite beauty.
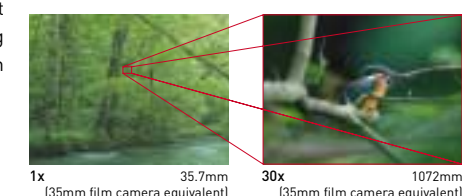
1x   35.7mm   30x   1072mm
(35mm film camera equivalent)   (35mm film camera equivalent)

Shoot wide, view wide with High-Picture-Quality
Wide Mode (16:9) and 2.7" Wide LCD `GS500` `GS300` `GS180`

The GS500, GS300 and GS180 offer the High-Picture-Quality Wide Mode, which produces images that make for beautiful, dramatic viewing on a wide-screen TV. The image is processed on an area of the CCD with a wide 16:9 aspect ratio to increase the number of effective pixels. Because the image decoded has the same proportions as your wide-screen TV, there is virtually no picture quality degradation. You get beautiful images and all the excitement and dynamism on either a wide 16:9 screen TV or a conventional 4:3 screen TV. The GS500 and GS300 also feature a wide 2.7-inch LCD, making it easier to frame shots when you're shooting in 16:9 mode. You can enjoy shooting wide, and viewing wide.

*GS180: Without 2.7" Wide LCD   On a 4:3 TV   On a 16:9 wide-screen TV

Functions that Give You More Shooting Flexibility

Operate the camera without looking away from your subject
GS500 GS300 GS180 GS57 GS47 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
◊GS180 has no Help Mode.

▶ **Multilingual Menu**

The menu can be displayed in any of five languages. You can switch it to view all menus in the language you prefer for easy, comfortable operation.
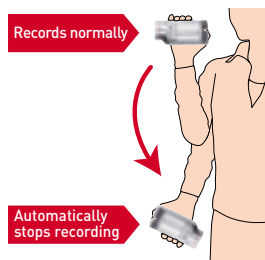(English/Russian/Arabic/Persian/Chinese)

Helps prevent wasted shots with AGS (Anti-Ground Shooting mode)
GS500 GS300

The O.I.S. linear motor system can detect when the camera is in an unusual shooting position — such as when you've inadvertently left it on in recording mode. In these cases, the camera automatically stops recording, saving both battery power and tape.

*This mode can be selected from the menu.

Records normally

Automatically stops recording

Never miss those sudden shooting opportunities 1.7 sec Quick Start
GS500 GS300 GS180 GS57 GS47 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 GS300 GS180 GS57 GS47 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.

Moving pictures with a rich, movie-like tone and true-to-life ambience—Pro-Cinema Mode
GS500

The movies you see at the cinema are generally filmed at 24 frames per second (fps). The GS500's Pro-Cinema mode shoots at a close 25 fps, so it can reproduce the same kind of motion you see in the movies.

More Fun After Shooting, Too

Transfer data to a PC at high speed too USB 2.0 (HS Mode) and Video Class* Compatibility
GS500 GS300 GS180 GS57 GS47

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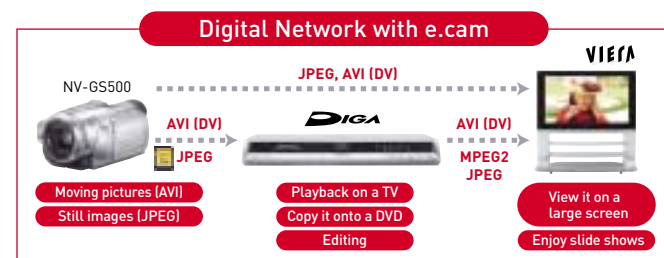
*Video Class is a standard format that allows the real-time transfer of moving picture data over a USB cable. GS27: USB 2.0 (FS Mode)

MotionDV STUDIO 5.6E LE for DV/SweetMovieLife 1.0E (DV Editing Software)
The included MotionDV STUDIO 5.6E LE for DV and SweetMovieLife 1.0E software 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 GS300 GS180 GS57 GS47 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
•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/GS57/GS47/GS27)
•Direct Mode Dial (GS500/GS300/GS180/GS57/GS47/GS27)
•0Lux Colour Night View (GS500/GS300/GS180/GS57) (with Video LED Light)
•Colour Night View (GS500/GS300/GS180/GS57/GS47/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/GS57/GS47)
•DV IN/OUT (GS500/GS300/GS180/GS57/GS47) •DV/OUT (GS27)

Digital Network with e.cam

NV-GS500

JPEG, AVI (DV)

AVI (DV)
JPEG

AVI (DV)
MPEG2
JPEG

DIGA

VIErA

Moving pictures (AVI)
Still images (JPEG)

Playback on a TV
Copy it onto a DVD
Editing

View it on a large screen
Enjoy slide shows

10

SDR-S100

3CCD Camera System
O.I.S. (Optical Image Stablizer)
LEICA DICOMAR Lens
Crystal Engine
3.1-Megapixel Still Picture Recording
2.8" Wide LCD
10x Optical Zoom

A 2GB SD Memory Card is included!

Shoot Beautiful Pictures Anytime, Anyplace
World's Smallest*² SD Video Camera with 3CCD Camera System and O.I.S.

With the SD Memory Card, shooting video is easier and more convenient

1 A compact size and super-fast startup
The SD card is just 24 x 32 x 2.1 mm (W x H x T) and weighs only 2 g (approx.). Startup time is very short too, so you can record on a moment's notice.

2 Use it almost anywhere
The tough little SD card is highly resistant to heat, light, impact and dew condensation, so you can take it just about anywhere and use it in a wide range of conditions.

3 Quick, easy uploading to a PC
You don't have to connect a cable or run a finalising process when transferring data to a PC. With the SD card's quick, easy data transfer, it's easy to use the video clips and still images you shoot.

*1 Usable capacity will be less *2 As of January 4, 2006

Triple beauty — remarkable colour, 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.

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

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.
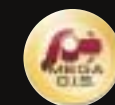
O.I.S. ON   O.I.S. OFF

Superior Leica-certified image quality LEICA DICOMAR Lens

LEICA DICOMAR
The S100 boasts a Leica Dicomar lens. Developed specifically for digital video cameras and featuring original optical technology from Leica, 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 Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.

Same recording system used for DVDs MPEG2

The S100 uses MPEG2, the same codec used in recording DVDs. In all three recording modes (XP, SP and LP), this system plays back moving pictures at 50 fields per second — the same rate as TV broadcasts — so the motion is smooth and natural-looking. Featuring Panasonic's MPEG2 Engine, the S100 lets you record beautiful, smoothly flowing moving pictures.

Simple and easy operation with either right or left hand

The main control buttons are arranged symmetrically for easy single-handed operation with either right or left hand. With its compact size and ergonomic design, the S100 is easy for just about anyone to use.

Left Hand   Right Hand

Other Features
•Crystal Engine •MPEG2 Engine •10x Optical Zoom
•3.1-Megapixel Still Picture Recording •Pop-Up Flash •Scene Mode
•High-Picture-Quality Wide Mode (16:9) and 2.8" Wide LCD •Power LCD
•Tele Macro Mode •Soft Skin Detail •Colour Night View
•Smart Wind Cut •PictBridge Compatible •WEB Camera Function

Digital Network with SD e.cam

SDR-S100

JPEG

MPEG2
JPEG

MPEG2
JPEG

DIGA

VIErA

Moving pictures (MPEG2)
Still images (JPEG)

Playback on a TV
Copy it onto a DVD
Editing

View it on a large screen
Enjoy slide shows

*Panasonic DVD recorder "DIGA", as these are MPEG2 compatible.

11
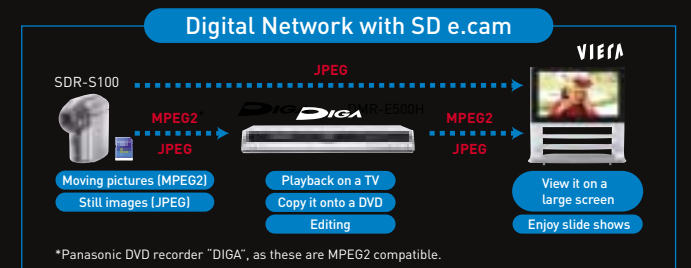
Editing Software

With Panasonic's Included Editing Software, Anyone Can Enjoy Easy, Versatile Video Editing!

SweetMovieLife 1.0E & MotionDV STUDIO 5.6E LE for DV for e.cam

1 Transfer Data
Transfer the moving pictures to your PC

SweetMovieLife 1.0E and MotionDV STUDIO 5.6E LE for DV come with a USB cable that lets you connect your camera to your PC, making it easy to transfer the moving pictures.

3 Save the Results
Choose how you want to save it

- AVI (DV) → AVI
- MPEG2* → DVD
- MPEG1 → Video CD
- MPEG4 (ASF) → Video Mail
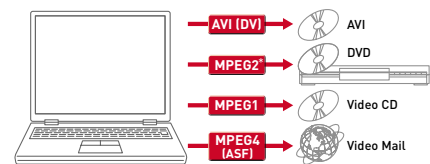
You can save the results in AVI format, convert it to the MPEG1 format or convert it to MPEG4 format. Also you can burn your production onto a DVD disc*.

*Requires DVD writing software.

2 Edit Quick and easy

For Beginners

SweetMovieLife 1.0E

Step-by-step instructions are shown right on the monitor. Just follow the instructions to add titles, background music and more.
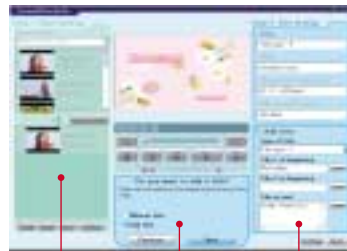
Select the video file for editing
Fill out blank spaces about titles, BGM and other effects.
Just follow the guide!

- Add a title
- Add background music
- Set the duration and scene-transition effects
- Add the recording date

For Advanced Users

MotionDV STUDIO 5.6E LE for DV

MotionDV STUDIO 5.6E LE for DV includes a wide variety of titles, video effects and transition effects for you to choose from.

Tool Box
Library Window
Preview Window
Control Window
Edit Track
DRAG and DROP

[3D Animations & Illustration Frames]
Select and freely overlay any of your preferred animations and illustration frames.

[3D Titles]
Creating titles with 3-dimensional letters is easy, and the result is just as you imagined.

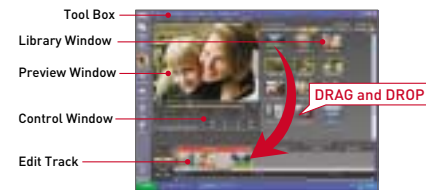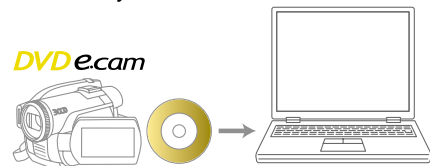### DVD-MovieAlbumSE 4.2 & DVDfunSTUDIO 2.4 for DVD e.cam

1 Transfer Data
Transfer the moving pictures to your PC

Just slip the disc right into your PC. Or use the USB cable (included) to connect your DVD e.cam to your PC and transfer the moving picture data that way.
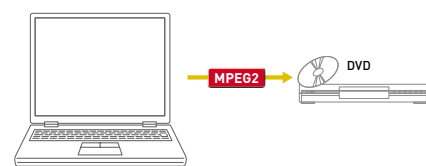
2 Edit
Quick and easy

Use DVD-MovieAlbumSE 4.2 to put scenes in a different order and delete the ones you don't want. It's easy.

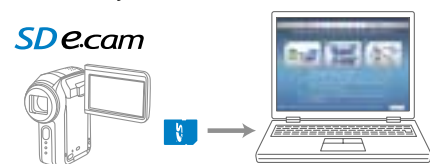**3 Save the Results**
Resave it onto a DVD disc

MPEG2 → DVD

When you're finished with your video production, you can use DVDfunSTUDIO 2.4 (included) to resave the edited version onto a DVD disc.

MotionSD STUDIO 1.0E for SD e.cam

1 Transfer Data
Transfer the moving pictures to your PC

You can transfer the moving picture data from the SD card right to your PC.
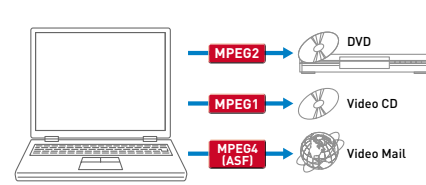
2 Edit
Quick and easy

It's easy to put scenes in a different order and delete the ones you don't want. This software also includes a wide variety of video effects .

3 Save the Results
Choose how you want to save it

- MPEG2 → DVD
- MPEG1 → Video CD
- MPEG4 (ASF) → Video Mail

You can burn your video production onto a DVD disc. Or you can convert it to MPEG4 and attach it to e-mail or post it on a Website.

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/GS57/GS47

	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-GS180EG/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.

FEATURE COMPARISON

	DVD e.cam		e.cam				SD e.cam
	D300/D250	D150	GS500	GS300	GS180	GS57/GS47/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 Stabilizer)	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	GS57/GS47: 0.3 MEGA (640 x 480) GS27: 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)	GS57/GS47: 0.3 MEGA (640 x 480) GS27: 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	GS57: Yes GS47/GS27: 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	GS57/GS47: HS Mode GS27: FS Mode	HS Mode
SD Memory Card Compatible	Yes	Yes	Yes	Yes	Yes	GS57/GS47: Yes GS27: No	Yes
PictBridge Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DV IN/OUT	No	No	In/Out	In/Out	In/Out	GS57/GS47: In/Out GS27: Out	No
Analogue IN/OUT	Out	Out	Out	Out	Out	Out	Out
WEB Camera Function	No	No	Yes	Yes	Yes	Yes	Yes

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.]

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

Number of Recordable Still Pictures (approx.)

D300

Image Quality	Capacity	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

Image Quality	Capacity	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

Image Quality	Capacity	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

Image Quality	Capacity	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	810	390	200	98
		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

Image Quality	Capacity	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

Image Quality	Capacity	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

GS57/GS47

Image Quality	Capacity	2GB*	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
640 x 480 pixels		14080	7040	3520	1760	880	440	220
		28160	14080	7040	3520	1760	880	440

S100

Image Quality	Capacity	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

OPTIONAL ACCESSORIES

Rechargeable Lithium-Ion Battery Pack*1	AC Adaptor (2 Battery Charge Type)	Tele Conversion Lens	Wide Conversion Lens	Filter Kit
CGR-DU06 CGA-DU07 CGA-DU12 CGA-DU14 CGA-DU21 CGA-S303	VW-AD11	VW-LT3014 VW-LT3714M VW-LT4314N	VW-LW3007 VW-LW3707M3 VW-LW4307M	VW-LF37W VW-LF43W

MC Protector	ND Filter	Tripod	Stereo Zoom Microphone & Stereo Microphone	Video Flash (Guide No. 12)
VW-LMC30	VW-LND30	VW-CT45	Stereo Zoom Microphone VW-VMH3 / Stereo Microphone VW-VMS2	VW-FLH3

Video DC Light	Jacket Pouch	SD Memory Card *2	USB2.0 Reader/Writer	DV Cable
VW-LDH3 / VW-LDC10	VW-SJ05	2GB RP-SDK02G / RP-SDQ02G; 1GB RP-SDK01G / RP-SDQ01G; 512MB RP-SDK512; 256MB RP-SDH256; 128MB RP-SD128; 64MB RP-SD064; 32MB RP-SD032	For Windows® 98/2000/ Me/XP BN-SDUSB2E	VW-CD1

Mini DV Tape	Cleaning Tape	DVD-RAM	DVD-RW	DVD-R
AY-DVM80YE / AY-DVM60YE / AY-DVM80EF / AY-DVM60EF / AY-DVM60EF3 / AY-DVM60EF5	AY-DVMCLC	LM-AF60E LM-AF30E	LM-RW60E LM-RW30E	LM-RF60E LM-RF30E

Accessories	Model No.	DVD e.cam		e.cam				SD e.cam
		D300/D250	D150	GS500	GS300	GS180	GS57/GS47/GS27	S100
POWER								
Rechargeable Lithium-Ion Battery Pack	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	
Battery Life: Continuous Recording (Using the Viewfinder) Ambient Temperature: 25˚C Ambient Humidity: 60%	CGA-DU12 [7.2V/1150mAh]	D300: 1 h 40 min*3 D250: 1 h 45 min*3	2 h 15 min*3	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*3 D250: 2 h 10 min*3	2 h 50 min*3	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*3 D250: 3 h 15 min*3	4 h 20 min*3	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-AD11	●	●	●	●	●	●	●
SHOOTING								
Tele Conversion Lens	VW-LT3014		●					●
	VW-LT3714M	●			●	●	●	
	VW-LT4314N			●				
Wide Conversion Lens	VW-LW3007		●					●
	VW-LW3707M3	●			●	●	●	
	VW-LW4307M			●				
MC Protector	VW-LMC30		●					●
ND Filter	VW-LND30		●					●
Filter Kit	VW-LF37W	●			●	●	●	
	VW-LF43W			●				
Stereo Zoom Microphone	VW-VMH3		●					●
Stereo Microphone	VW-VMS2	●		●	●	●	●	
Video Flash	VW-FLH3		●					
Tripod	VW-CT45	●	●	●	●	●	●	●
Video DC Light	VW-LDH3		●					
	VW-LDC10	●		●	●	●	●	
Light Bulb for Video DC Light	VW-LL3 (for VW-LDH3)		●					
	VZ-LL10 (for VW-LDC10)	●		●	●	●	●	
Jacket Pouch	VW-SJ05	●		●	●	●	●	●
DATA TRANSFERRING & RECORDING								
SD Memory Card	RP-SDK02G/01G/512/SDH256/SD128/064/032 RP-SDQ02G/01G	●	●	●	●	●	● GS57/GS47	●
DV Cable	VW-CD1	●		●	●	●	●	

*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 Usable capacity will be less.
*3 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.]

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.]