

**Panasonic**  
ideas for life



2005



**DIGITAL VIDEO CAMERA**

*Pro-Like*  
**3CCD** *Quality*  
*Moving Pictures*



Remarkably Beautiful 3CCD Pictures — Both Moving and Still



**3CCD**  
*ecam*



NV-GS250

NV-GS150

NV-GS75



NV-GS400

*up to*  
**4.0 Megapixel\***  
*Still Pictures*

\*GS400



Plus a Wide Line-up to Choose From



*Up to 30x\**  
**Optical**  
*Zoom Power*

\*GS35. Pictures are simulated.

NV-GS35\*  
30x Optical Zoom



NV-GS25  
24x Optical Zoom



— | Super Compact & Powerful Zoom Models P8

**e.cam**

# 3CCD Models — GS400/GS250/GS150/GS75

## Triple Beauty — 3CCD

Panasonic's 3CCD camera system gives you more beautiful pictures three different ways: natural colour tones, intricate detail, and a smooth gradation.



GS250

### Beautiful Colour

Noise will greatly diminish picture quality. Panasonic's 3CCD system reduces noise by about 30%\*\* compared with 1CCD systems, helping deliver stunningly beautiful images with clear, natural colours.

### Beautiful Detail

Horizontal resolution in colours is 150%\*\* compared with that of 1CCD systems. The greater colour pixel density means that even finely nuanced colours are rendered distinctly.

### Beautiful Gradation

The dynamic range to express luminous gradation is 130%\*\* compared with that of 1CCD systems. This helps produce subtle contrast to create a wide palette of colours.



4.0-Megapixel Still Picture Recording



### NV-GS400

- ▶ 3CCD Camera System
- ▶ Leica Dicomar Lens with Low-dispersion Optical Glass
- ▶ 4.0-Megapixel Still Picture Recording
- ▶ O.I.S. (Optical Image Stabilizer) & Mega O.I.S. ▶ Crystal Engine
- ▶ USB 2.0 (HS Mode)/Video Class ▶ 3.5" Power LCD
- ▶ Simultaneous Motion and 1.2-Megapixel Still & Picture Recording ▶ Flash



### NV-GS250

- ▶ 3CCD Camera System
- ▶ Leica Dicomar Lens with Low-dispersion Optical Glass
- ▶ 3.1-Megapixel Still Picture Recording
- ▶ O.I.S. (Optical Image Stabiliser) & Mega O.I.S.
- ▶ Crystal Engine ▶ Manual Focus Ring
- ▶ USB 2.0 (HS Mode)/Video Class ▶ Flash



### NV-GS150

- ▶ 3CCD Camera System
- ▶ Leica Dicomar Lens
- ▶ 2.3-Megapixel Still Picture Recording
- ▶ Crystal Engine ▶ Built-in Lens Cover
- ▶ USB 2.0 (HS Mode)/Video Class ▶ Flash

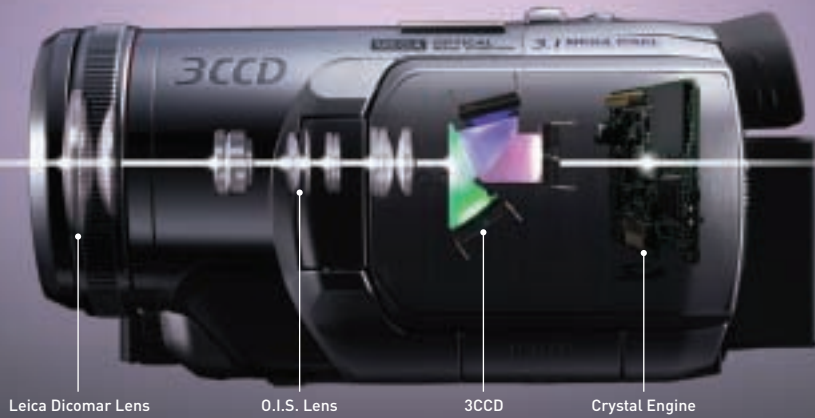


### NV-GS75

- ▶ 3CCD Camera System
- ▶ 1.7-Megapixel Still Picture Recording
- ▶ Crystal Engine
- ▶ USB 2.0 (HS Mode)/Video Class

\*For a digital video camera, as of January 5, 2005 \*\*Panasonic comparison.

# State-of-the-Art Imaging Technologies for Superior Pictures



Leica Dicomar Lens      O.I.S. Lens      3CCD      Crystal Engine

## HIGH-QUALITY PICTURES

The same system that's used in professional broadcast cameras — 3CCD Camera System

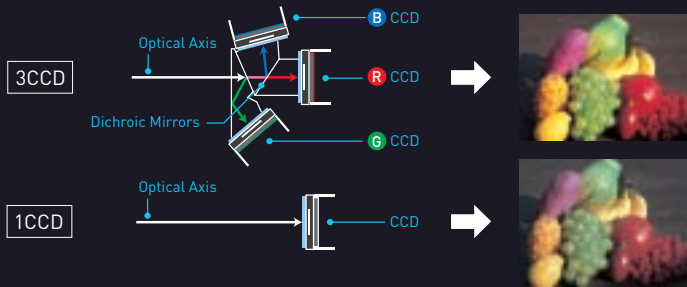
GS400	GS250
GS150	GS75

High-performance image processing New Crystal Engine

GS400	GS250
GS150	GS75



The camera's CCD (charge-coupled device) plays a critical role in picture quality. That's why Panasonic chose a 3CCD camera system – the type used in professional video cameras. In this advanced system the incident light is split into its three primary colour components (red, green and blue), and the resulting signal from each is collected by one of the three CCDs. The GS250's 3CCD system features a total of 800,000 pixels times 3. It captures moving pictures with an effective 630,000 pixels times 3 and still pictures with an effective 710,000 pixels times 3, which provides highly detailed colour information. Compared with conventional 1CCD camera systems, Panasonic's advanced 3CCD system gives you greater beauty three different ways: in colour, detail, and gradation.



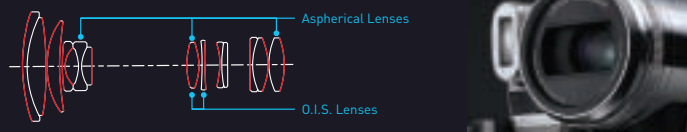
Superior Leica-certified image quality LEICA DICOMAR Lens

LEICA DICOMAR	GS400
	GS250
	GS150

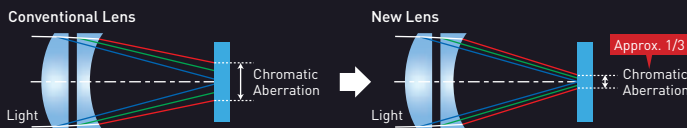
Leica is renowned by photographers everywhere as a maker of superb cameras and lenses. Now this legendary optical technology fuses with Panasonic's advanced digital technology in the Leica Dicomar lens. The GS250's brilliant new lens features 13 lens elements in 9 groups and uses low-dispersion optical glass to reduce chromatic aberration to about 1/3 the level of conventional lenses. A special multi-coating process is applied to 14 lens surfaces, minimising harmful reflection to deliver crisp, clear images free of flare and ghosting.

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

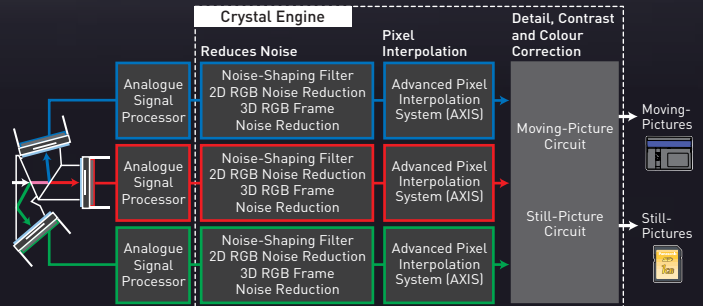
### ● 14 Multi-Coated Lens Surfaces (GS250)



### ● Low-Dispersion Glass (GS250)



\*The GS400 lens system comprises 14 lens elements in 10 groups, with a special multi-coating process applied to 16 surfaces.  
The GS150 lens system comprises 10 lens elements in 7 groups, with a special multi-coating process applied to 12 surfaces.



### 3D RGB Frame Noise Reduction

The noise reduction system uses a noise-shaping filter (first dimension) to remove the rough, highly visible noise. Next, it extracts and analyses data from several adjacent pixels in the horizontal and vertical directions (second dimension), and removes any parts that it determines to be noise. Finally, the process is applied to the time axis (third dimension), where it extracts and analyses several frames, and again removes parts that it determines to be noise. The result is a better noise-reduction performance than conventional systems provide. The noise reduction is particularly effective when shooting at low illumination, so you can capture clear, sharp images even at night or when lights are low.

### AXIS (Advanced Pixel Interpolation System)

Quad-Density Pixel Distribution technology improves image precision by interpolating the signal for areas on the CCD where there are no pixels. AXIS helps reproduce even finely detailed portions of an image, giving the picture a higher-resolution appearance.

### Digital Signal Processing

This new configuration consists of two separate image processing circuits, one for moving pictures, one for still pictures. Using the optimum circuit for each type of picture makes it possible to record both with outstanding quality.

You can take breathtaking stills as well 3.1-Megapixel Still Picture Recording

GS250
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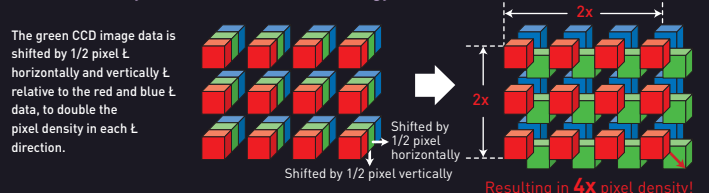


The GS250 features Quad-Density Pixel Distribution, a technology used in Panasonic's professional equipment. By distributing the pixels at intervals measured in submicrons, this technology makes it possible to position four times as many pixels as in a conventional CCD. As a result, the GS250 records 3.1-megapixel still pictures. It captures all of the outstanding detail, colour and sensitivity made possible by the 3CCD camera system.

\*GS400: 4.0-Megapixel still picture recording  
GS150: 2.3-Megapixel still picture recording  
GS75: 1.7-Megapixel still picture recording



### ● Quad-Density Pixel Distribution Technology





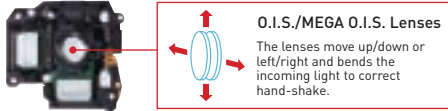
# HIGH-QUALITY PICTURES

Clear, beautiful images, even with high-power zooming — O.I.S. (Optical Image Stabiliser)

GS400  
GS250

The O.I.S. helps assure clear, beautiful pictures by compensating for any hand-shake that occurs as you shoot. Gyrosensors detect the amount and direction of hand-shake and a linear motor adjusts the lenses as needed to compensate. While electronic systems correct the hand-shake in the CCD image itself, the optical process takes place before the CCD imaging stage – so there's virtually no effect on image resolution or viewing angle. And because it's a real-time process that operates 500 times\* per second, there are no afterimages or any of the unnatural feeling you get with internal complementing methods. Instead, you get clear, sharp images even when taking wide-angle shots or using the zoom at high magnification levels.

\*GS400: 480 times



High-precision shooting with hand-shake correction, even for megapixel still pictures — MEGA O.I.S.

GS400  
GS250

The MEGA O.I.S. system takes O.I.S. technology a step further by adding a sensitivity selector. This allows MEGA O.I.S. to provide about twice\* as much hand-shake correction when shooting still pictures as conventional O.I.S. provides with moving pictures. MEGA O.I.S. can even correct for hand-shake when shooting still pictures with the zoom or macro function, or when shooting in dim lighting.

\*Measurements by Panasonic



Adjust the focus manually if you prefer  
Manual Focus Ring

GS400 GS250

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.



Open and close easily  
Built-in Lens Cover

GS150

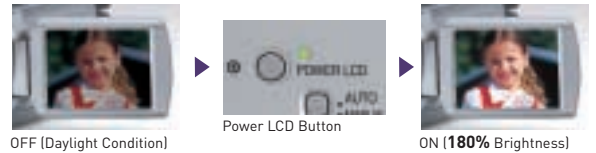
The lens cover is built right into the camera body; simply turn the lens ring to open or close it. You're ready to shoot in an instant and you never have to worry about losing the lens cover.



Easy to see — even outdoors  
Power LCD

GS400 GS250  
GS150 GS75

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.



# OPERATING EASE

Check the image in the monitor as you shoot:  
One-Touch Navigation & Joystick Control

GS250  
GS150  
GS75



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

	Tele Macro Mode
	Soft Skin Detail
	FadeIN/FadeOUT
	Backlight Compensation

## Multilingual Menu

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



Easy-to-use universal design:  
Direct Mode Dial

GS400 GS250  
GS150 GS75

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

Dial design of GS250/GS150/GS75/GS35/GS25



# CREATIVITY

Give your subjects smoother looking skin  
Soft Skin Detail

GS400 GS250  
GS150 GS75

This function detects skin tones and softens the focus in those areas, making complexions look more attractive. Wrinkles and lines seem to disappear.



Take close-ups from a distance of 40 cm\*  
Tele Macro Mode

GS400 GS250  
GS150 GS75

Just press a button and you're ready to shoot macro close-ups of subjects a mere 40 cm from the lens. The subject will have a clear, sharp focus, while the background focus is softened.

\*GS400: 50 cm



- Simultaneous Motion Video & Still Picture Recording (VGA)
- Colour Night View
- Scene Mode

GS250 GS150 GS75  
GS400: 1.2-Megapixel

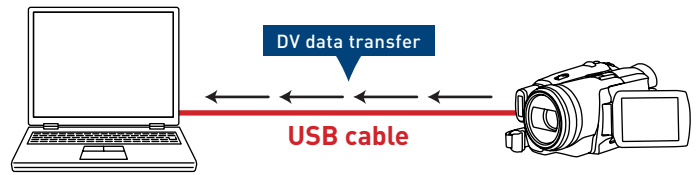
## High-speed data transfer to a PC — USB 2.0 (HS Mode) and Video Class<sup>1</sup> Compatibility

GS400 GS250 GS150 GS75

USB 2.0 compatibility gives you high-speed uploading of DV data to a PC over a single USB cable. Video Class compatibility allows real-time transfer of DV moving picture data over the same USB cable. The included MotionDV STUDIO 5.3 LE<sup>2</sup> application makes it easy to edit DV footage, so you can create your own polished, professional looking movies for keepsakes.

\*1 Video Class is a standard format that allows the real-time transfer of moving picture data over a USB cable.

\*2 The GS400 includes a MotionDV STUDIO 5.1LE.



### MotionDV STUDIO 5.3LE (DV Editing Software)

With MotionDV STUDIO, you can load images right into your PC for super-easy non-linear editing, add special effects, and dub in a soundtrack — all on a single, easy-to-see screen. MotionDV STUDIO lets you make home movies with quality so high, you'll enjoy them again and again.

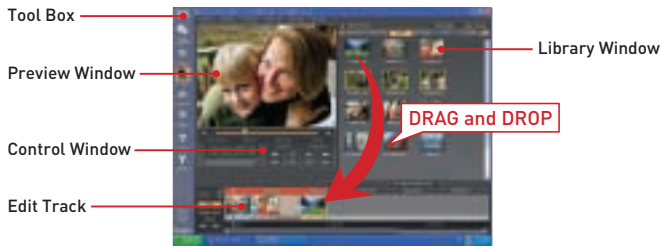
\*See page 11 for details of the system requirements.



#### [Edit Assistant]

Now you can get a great assistant for editing. This Software [Edit Assistant] will take all the trouble out of editing for you. All you need to do is follow the guide and choose options as you like.

#### Easy Editing from a Single Window



#### Preview Window

Lets you view the playback picture from the connected DV camera and also preview the edited video.

#### Library Window

Scenes captured from DV tape or other media, titles, still images, audio, etc. can be stored on the hard disk by category and displayed in this window, as a list of icons.

#### Edit Track

Drag and drop video clips from the library window or input track in the desired order to the edit track, and add scene transitions and image effects as you like.

#### Control Window

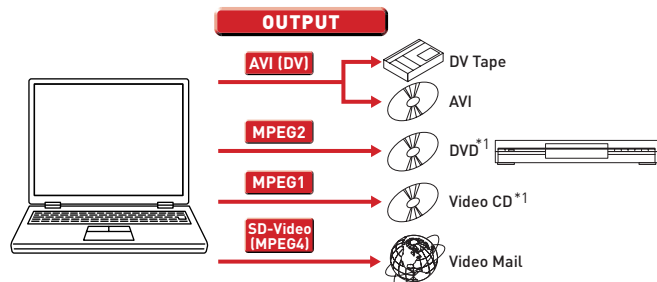
Centralised controls lets you operate connected DV players, play back and stop captured clips, and more.

#### Input Track

Displays unedited images from DV tape, scene by scene, with index (or time code) listings for easy searching.

#### Wide Range of Output Formats for the Networking Age

In addition to DV cameras, you can capture and edit on the PC other videos, still pictures and even audio in several formats. Then, you can save the created files in any of five available formats to suit your need.



\*1 \*Requires a DVD/CD writing software.

\*Some materials may not be accessible even if saved in these formats.

### Add Professional-like Effects All by Yourself

#### [11 Video Effects]

Choose from 11 video effects - like sepia and mosaic - to add greater expression to images.



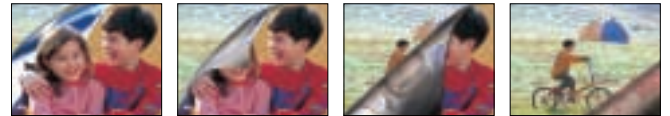
Other Video Effects: Strobe, Negaposi, Fade In/Out and etc.

#### [31 Transition Types]

Select from 31 different transition patterns to connect scenes dramatically.



Clock Wipe



Page Flip



Spin

Other Video effects: Compress, Slide, Dissolve and etc.

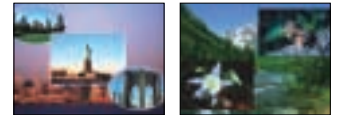
#### [3D Animations & Illustration Frames]

Select and freely overlay any of your preferred animations and illustration frames.



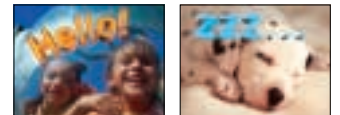
#### [Multi Moving Pictures]

Inserting one or more small moving pictures of different shapes at any position in the main picture is also possible.



#### [3D Titles]

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



#### [Audio Mixing]

You can turn your videos into really finished movies by adding narration, sound effects or background music from WAVE file on your PC. You also have the ability to fine-tune volume, mixing level and the length of fade-ins/outs.

#### Sending Video Mail Over the Internet

MotionDV STUDIO lets you compress AVI files (DV) into SD-Video (MPEG4) format. You can then use your mailer to attach the video to e-mail messages and convey the full emotion of moving pictures to your family and friends.

Super Compact — Even with the World's Most Powerful 30x Zoom\*



**NV-GS35**

- ▶ 30x Optical Zoom
- ▶ Pure Colour Engine
- ▶ One-Touch Navigation & Joystick Control
- ▶ 1.7 sec Quick Start
- ▶ Built-in LED Light
- ▶ USB 2.0 (HS Mode)/ Video Class



**NV-GS25**

- ▶ 24x Optical Zoom
- ▶ Pure Colour Engine
- ▶ One-Touch Navigation & Joystick Control
- ▶ 1.3 sec Quick Start
- ▶ USB 2.0 (HS Mode)/ Video Class

\*For a digital video camera, as of January 5, 2005

**OPERATING EASE**

The world's most powerful zoom\*1 — 30x Optical

GS35



1x 35.7 mm (35 mm film camera equivalent)

30x 1072 mm (35 mm film camera equivalent)

Enjoy remarkable 30x zoom magnification in a camera that fits comfortably and securely in one hand. This lens is not only the most 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. In addition to bringing distant subjects up close, the GS35 also gives you wider images when shooting in a narrow space. It's great for taking photos of indoor parties or vast landscapes. All this in a size that is surprisingly compact and ultra-lightweight\*2 for go-everywhere portability.

\*1 For a digital video camera, as of January 5, 2005 \*2 GS35/GS25: 410g  
 ◇ GS25: 24x optical zoom



## Check the image in the monitor as you shoot One-Touch Navigation & Joystick Control

GS35  
GS25

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.



### ▶ Multilingual Menu

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

## Never miss those sudden shooting opportunities — 1.3 sec Quick Start

GS25

This Quick Start button helps shoot videos on the spur of the moment. While saving battery power, this function lets you shoot those not-to-be-missed scenes just 1.3 sec after pressing the button. \*GS35: 1.7 sec

## Beautiful images — even in low lighting Built-in LED Video Light & Colour Night View

GS35

When illumination is insufficient, turn on the built-in LED video light to take crisp, colourful movies. The LED (light emitting diode) has low power consumption, long service life, and the safety of a low operating temperature. Colour Night View gives you smoothly flowing pictures even in dark places, where it's normally difficult to capture good shots. And because the S.I.S. (Super Image Stabiliser) corrects for hand-shake, you get beautiful pictures with minimal after images.

\*GS25 has Colour Night View without LED Video Light.



Colour Night View OFF



Colour Night View ON



Built-in LED Video Light

## Choose the mode you want with quick, fingertip operation — Direct Mode Dial

GS35  
GS25

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



# HIGH-QUALITY PICTURES & SOUND

## Enjoy lifelike images with vivid colours — Pure Colour Engine

GS35  
GS25

The Pure Colour Engine LSI converts the CCD output signal from a complementary colour signal into RGB signal (containing the three primary colours in light) at an early stage and extracts the low-frequency luminance component from the RGB signal. The luminance signal is then generated in the same way as in TV broadcasting. Advanced 3D Frame Noise Reduction also gives you better results when shooting with low illumination because it improves colour noise-reduction performance by 30% compared with conventional systems. This innovative LSI achieves truly superb colour reproduction.



## Zoom in on sounds as well as images Zoom Microphone

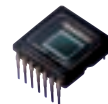
GS35  
GS25

According to the zoom setting of the lens, the two ECMs (electret condenser microphones) adjust automatically to bring sound and images together for an exceptional atmosphere. "Tele" mode provides high directionality to pick up the sound of distant subjects.

## Deliver clear DV images 800,000-Pixel CCD

GS35  
GS25

The 800,000-pixel CCD gives you superb clarity to take advantage of the high-resolution capability of the DV format. Now you can preserve those special memories in higher detail.



### ● Smart Wind Cut

GS35 GS25

# CREATIVITY

## Record moving pictures and still pictures at the same time — Simultaneous Motion Video & Still Picture Recording (VGA)

GS35  
GS25

You can snap off a still shot (VGA) while continuing to record moving pictures. 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.

## Give your subjects smoother complexions Soft Skin Detail

GS35  
GS25

This function detects skin tones and softens the focus in those areas, making complexions look more attractive. Wrinkles and lines seem to disappear.

# NETWORKING

## High-speed data transfer to a PC† USB 2.0 (HS Mode) and Video Class\* Compatibility

GS35  
GS25

USB 2.0 compatibility gives you high-speed uploading of DV data to a PC over a single USB cable. Video Class compatibility allows real-time transfer of DV moving picture data over the same USB cable. The included MotionDV STUDIO 5.3 LE application makes it easy to edit DV footage, so you can create your own polished, professional-looking movies for keepsakes.

\*Video Class is a standard format that allows the real-time transfer of moving picture data over a USB cable.



## Real-time visual communication WEB Camera Function

GS35  
GS25

















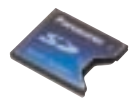



With the camera connected via USB cable to a PC, start up Windows® Messenger and the camera instantly turns into a web camera. Ideal for teleconferencing over the Internet, or for surveillance camera use.

- System Requirements
- OS: Microsoft® Windows® XP Home Edition/Professional, SP1 or later
- The supplied software is not compatible with Macintosh.
- Microsoft and Windows are either trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.

- DV IN/OUT & Analogue OUT
- SD Memory Card Compatible

GS35 GS25  
 GS35 GS25

# OPTIONAL ACCESSORIES

<b>Rechargeable Lithium-Ion Battery Pack</b>  CGR-DU06 CGA-DU07 CGA-DU12 CGA-DU14 CGA-DU21	<b>AC Adaptor</b>  VW-AD11	<b>Tele Conversion Lens</b>  VW-LT3014 VW-LT3714M2 VW-LT4314N	<b>Wide Conversion Lens</b>  VW-LW3007 VW-LW3707M3 VW-LW4307M	<b>Filter Kit</b>  VW-LF37W VW-LF43W
<b>MC Protector</b>  VW-LMC30	<b>ND Filter</b>  VW-LND30	<b>Tripod</b>  VW-CT45	<b>Stereo Zoom Microphone &amp; Stereo Microphone</b>  Stereo Zoom Microphone VW-VMH3  Stereo Microphone VW-VMS2	<b>Video Flash (Guide No. 12)</b>  VW-FLH3
<b>Video DC Light</b>  VW-LDH3 VW-LDC10	<b>Jacket Pouch</b>  VW-SJ05	<b>SD Memory Card</b>  64MB RP-SD064 128MB RP-SD128 256MB RP-SDH256 512MB RP-SDK512 1GB RP-SDK01G	<b>USB2.0 Reader/Writer</b>  BN-SDUSB2E For Windows® 98/2000/Me/XP	<b>CardBus PC Card Adapter</b>  BN-SDPC3E For Windows® 98/2000/Me/XP
<b>PC Card Adapter</b>  BN-SDPC2E For Windows® 95/98/2000/Me/XP	<b>SD-CF Adapter</b>  BN-SDCF1E For Windows® 95/98/2000/Me/XP	<b>DV Cable</b>  VW-CD1	<b>Mini DV Tape</b>  AY-DVM80YE AY-DVM60YE AY-DVM80EF AY-DVM60EF3	<b>Cleaning Tape</b>  AY-DVMCLC

\* Usable capacity will be less

Accessories	Model No.	GS400	GS250	GS150	GS75	GS35	GS25
<b>POWER</b>							
Rechargeable Lithium-Ion Battery Pack Battery Life: Continuous Recording (Using the Viewfinder) Ambient Temperature: 25°C Ambient Humidity: 60%	CGR-DU06		1 h 05 min	1 h 15 min	1 h 25 min	1 h 45 min	1 h 45 min
	CGA-DU07		1 h 10 min	1 h 20 min	1 h 30 min	1 h 50 min	1 h 50 min
	CGA-DU12	1 h 40 min	2 h 05 min	2 h 15 min	2 h 40 min	3 h 10 min	3 h 10 min
	CGA-DU14	2 h 00 min	2 h 20 min	2 h 40 min	3 h 00 min	3 h 40 min	3 h 40 min
	CGA-DU21	3 h 00 min	3 h 30 min	4 h 00 min	4 h 30 min	5 h 30 min	5 h 30 min
AC Adaptor	VW-AD11	●	●	●	●	●	●
<b>SHOOTING</b>							
Tele Conversion Lens	VW-LT3014					●	●
	VW-LT3714M2			●	●		
	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		●	●	●	●	●
<b>DATA TRANSFERRING</b>							
SD Memory Card	RP-SDK01G/512/SDH256/SD128/064/032	●	●	●	●	●	●
DV Cable	VW-CD1	●	●	●	●	●	●

\* Some accessories may not be available in Australia.

# DIGITAL CAMCORDER FEATURE COMPARISON

	GS400	GS250	GS150	GS75	GS35/GS25
<b>High-Quality Pictures &amp; Sound</b>					
3CCD Camera System	Yes	Yes	Yes	Yes	No
Leica Dicomar Lens	Yes	Yes	Yes	No	No
Image Processing LSI	Crystal Engine	Crystal Engine	Crystal Engine	Crystal Engine	Pure Colour Engine
Still Picture Recording	4.0 MEGA	3.1 MEGA	2.3 MEGA	1.7 MEGA	VGA (640 x 480)
O.I.S. (Optical Image Stabilizer)	Yes	Yes	No	No	No
MEGA O.I.S. (Optical Image Stabilizer)	Yes	Yes	No	No	No
Smart Wind Cut	Yes	Yes	Yes	Yes	Yes
Zoom Microphone & Stereo Microphone	Yes	Yes	Yes	Yes	Yes
<b>Creativity</b>					
Pro-Cinema Mode	Yes	No	No	No	No
Professional Functions	Yes	No	No	No	No
High-Picture-Quality Wide Mode (16:9)	Yes	Yes	Yes	No	No
Simultaneous Motion Video & Still Picture Recording	1.2 MEGA	VGA (640 x 480)	VGA (640 x 480)	VGA (640 x 480)	VGA (640 x 480)
Soft Skin Detail	Yes	Yes	Yes	Yes	Yes
Tele Macro Mode	Yes	Yes	Yes	Yes	No
Colour Night View	Yes	Yes	Yes	Yes	Yes
Scene Mode	Yes	Yes	Yes	Yes	Yes
<b>Operating Ease</b>					
One-Touch Navigation	No	Yes	Yes	Yes	Yes
Direct Mode Dial	Yes	Yes	Yes	Yes	Yes
Slant Grip	No	Yes	Yes	Yes	No
Lens Cover	Cap	Cap	Built-in Type	Cap	Cap
Focus Ring	Yes (Multi)	Yes (Manual)	No	No	No
Flash	Yes (GN6) (Auto-Pop-Up)	Yes (GN5.5) (Built-in)	Yes (GN4) (Built-in)	No	No
Built-in LED Light	No	No	No	No	GS35: Yes GS25: No
Hot Shoe	Yes	Yes	Yes	No	No
Optical Zoom	12x	10x	10x	10x	GS35: 30x GS25: 24x
Quick Start	1.7 sec	1.7 sec	1.7 sec	1.7 sec	GS35: 1.7 sec GS25: 1.3 sec
Intelligent AI LCD	Yes	Yes	Yes	No	No
Power LCD	Yes	Yes	Yes	Yes	No
Free-Style Remote Controller with Mic	Yes	Yes	Yes	Yes (without Mic)	Yes (without Mic)
One-Touch Free-Style Grip Belt	Yes	Yes	Yes	Yes	No
<b>Networking</b>					
USB 2.0 (H/S Mode)	Yes	Yes	Yes	Yes	Yes
SD Memory Card Compatible	Yes	Yes	Yes	Yes	Yes
PictBridge Compatible	Yes	Yes	Yes	Yes	No
DV IN/OUT	In/Out	In/Out	In/Out	In/Out	In/Out
Analogue IN/OUT	In/Out	In/Out	Out	Out	Out
WEB Camera Function	Yes	Yes	Yes	Yes	Yes

## System Requirements

	Interface	MotionDV STUDIO LE		Web Camera Function		Card Reader Function (Mass Storage)	
		USB 2.0	DV (IEEE1394)	USB 1.1 or more	USB 1.1 or more	USB 1.1 or more	USB 1.1 or more
OS	Windows® 98SE	No	No	No	No	Yes	Yes
	Windows® Me	No	Yes	No	No	Yes	Yes
	Windows® 2000	Yes SP4 or later	Yes SP4 or later	No	No	Yes	Yes
	Windows® XP	Yes SP1 or later	Yes SP1 or later	Yes SP1 or later	Yes	Yes	Yes
Personal Computer	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 LE

- In USB connection: Images can be captured to a PC.
- In DV connection: Images can be captured to a PC & recorded to a digital video camera.
- DV cable is an optional accessory.
- The supplied software cannot 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.

## GS400

Image Quality	Capacity	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
		2288 x 1728 pixels	Fine	512	265	130	64
1600 x 1200 pixels	Normal	807	418	206	102	49	23
	Economy	1132	587	290	144	70	33
	Fine	1066	553	273	136	66	31
1280 x 960 pixels	Normal	1668	866	428	214	104	49
	Economy	2323	1207	597	298	146	70
	Fine	1668	866	428	214	104	49
640 x 480 pixels	Normal	2622	1362	674	337	165	79
	Economy	3672	1908	945	473	232	112
	Fine	7040	3520	1760	880	440	220
640 x 480 pixels	Normal	14080	7040	3520	1760	880	440
	Economy	28160	14080	7040	3520	1760	880

## GS250

Image Quality	Capacity	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
		2048 x 1512 pixels	High	629	314	158	75
1600 x 1200 pixels	Normal	989	493	248	119	62	29
	High	1006	502	252	121	63	30
1280 x 960 pixels	Normal	1550	774	390	187	98	47
	High	1550	774	390	187	98	47
640 x 480 pixels	Normal	2495	1246	628	302	158	76
	High	7040	3520	1760	880	440	220
640 x 480 pixels	Normal	14080	7040	3520	1760	880	440
	High	14080	7040	3520	1760	880	440

## GS150

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

## GS75

Image Quality	Capacity	1GB*	512MB*	256MB*	128MB*	64MB*	32MB*
		1520 x 1152 pixels	High	1082	540	272	130
640 x 480 pixels	Normal	1739	868	437	210	110	53
	High	7040	3520	1760	880	440	220
640 x 480 pixels	Normal	14080	7040	3520	1760	880	440
	High	14080	7040	3520	1760	880	440

## GS35/GS25

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

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

## CONNECTING TO FUN!

Digital Networking with Panasonic Digital Video Cameras

### Long-lasting Storage

Save moving and still images onto a DVD Video Recorder with SD/PC Card Slot



### Viewing

View images on your TV screen TV with an SD Memory Card Slot



### Editing

Easy editing, professional results DV Editing Software



### Communicating

Real-time visual communication WEB Camera Function





# SPECIFICATIONS

	GS400	GS250	GS150	GS75	GS35/GS25
<b>GENERAL</b>					
Power Supply	DC 7.9 V/7.2 V	DC 7.9 V/7.2 V	DC 7.9 V/7.2 V	DC 7.9 V/7.2 V	DC 7.9 V/7.2 V
Power Consumption	4.8 W (EVF)/6.0 W (LCD)	4.0 W (EVF)/4.3 W (LCD)	3.6 W (EVF)/3.9 W (LCD)	3.1 W (EVF)/3.4 W (LCD)	2.6 W (EVF)/3.2 W (LCD)
Weight (w/o Battery)	700 g	500 g	420 g	420 g	410 g
Dimensions (W x H x D)	81 x 80 x 178 mm	81 x 73 x 144 mm	71 x 73 x 123 mm	76 x 77 x 120 mm	63.5 x 81 x 114 mm
<b>LENS SECTION</b>					
Image Sensor	1/4.7" CCD x 3 (1070 k x 3 pixels, Total) (Moving Pictures: 690 k x 3/ Still Pictures: 990 k x 3, Effective)	1/6" CCD x 3 (800 k x 3 pixels, Total) (Moving Pictures: 630 k x 3/ Still Pictures: 710 k x 3, Effective)	1/6" CCD x 3 (800 k x 3 pixels, Total) (Moving Pictures: 400 k x 3/ Still Pictures: 530 k x 3, Effective)	1/6" CCD x 3 (540 k x 3 pixels, Total) (Moving Pictures/ Still Pictures: 340 k x 3, Effective)	1/6" CCD (800 k pixels, Total) (Moving Pictures/ Still Pictures: 400 k, Effective)
F Value	F1.6 (WIDE)/F2.8 (TELE)	F1.6 (WIDE)/F2.8 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	GS35: F1.8 (WIDE)/F3.9 (TELE) GS25: F1.8 (WIDE)/F3.6 (TELE)
Optical Zoom	12x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	GS35: 30x Variable Speed Zoom GS25: 24x Variable Speed Zoom
Focal Length	3.3 — 39.6 mm	2.85 — 28.5 mm	2.45 — 24.5 mm	2.45 — 24.5 mm	GS35: 1.9 — 57 mm GS25: 2.1 — 50.4 mm
Filter Diameter	43 mm	43 mm	37 mm	37 mm	30.5 mm
35mm Film Camera Equivalent	45 — 540 mm (Tape Mode) 37.6 — 451 mm (Card Mode)	43.8 — 438 mm (Tape Mode) 41.3 — 413 mm (Card Mode)	47.1 — 471 mm (Tape Mode) 41.1 — 411 mm (Card Mode)	42 — 420 mm	GS35: 35.7 — 1072 mm GS25: 39.5 — 948 mm
Lens Brand	Leica Dicomar	Leica Dicomar	Leica Dicomar	Panasonic	Panasonic
<b>CAMERA SECTION</b>					
Minimum Illumination	2 Lux (Super Colour Night View)	1 Lux (Colour Night View)	1 Lux (Colour Night View)	1 Lux (Colour Night View)	2 Lux (Colour Night View)
Focus	AF/Manual (w/Ring)	AF/Manual (w/Ring)	AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/Set (with IR Sensor)				
High-Speed Shutter	Tape Mode: 1/50 — 1/8000 sec Card Mode: 1/2 — 1/2000 sec	Tape Mode: 1/50 — 1/8000 sec Card Mode: 1/2 — 1/2000 sec	Tape Mode: 1/50 — 1/8000 sec Card Mode: 1/25 — 1/500 sec	Tape Mode: 1/50 — 1/8000 sec Card Mode: 1/25 — 1/500 sec	Tape Mode: 1/50 — 1/8000 sec Card Mode: 1/50 — 1/500 sec
Iris	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow				
Backlight Compensation	Yes	Yes	Yes	Yes	Yes
EVF	0.3" Colour (123 k pixels)	0.33" Colour (113 k pixels)	0.33" Colour (113 k pixels)	0.33" Colour (113 k pixels)	GS35: 0.33" Colour (113 k pixels) GS25: 0.33" B/W (67 k pixels)
Monitor	3.5" LCD (200 k pixels)	2.5" LCD (113 k pixels)	2.5" LCD (113 k pixels)	2.5" LCD (113 k pixels)	2.5" LCD (105 k pixels)
Microphone	4-ECM, Zoom Mic, Wind Noise Reduction/Stereo Zoom Mic, Wind Noise Reduction				
Date Recording	Auto Date (in Data Code)	Auto Date (in Data Code)	Auto Date (in Data Code)	Auto Date (in Data Code)	Auto Date (in Data Code)
Fade Colour	Black	Black or White	Black or White	Black or White	Black or White
Rec. Review	Yes	Yes	Yes	Yes	Yes
OSD Language	English	English/Russian/Arabic/Persian/Chinese			
Image Stabiliser	OIS	OIS	SIS	SIS	SIS
Digital Zoom	24x/600x	20x/500x	20x/500x	20x/500x	GS35: 50x/1000x GS25: 50x/800x
LED Video Light	—	—	—	—	GS35: Yes GS25: —
Flash	Guide No. 6	Guide No. 5.5	Guide No. 4	—	—
Quick Start	1.7 sec. (approx.)	1.7 sec. (approx.)	1.7 sec. (approx.)	1.7 sec. (approx.)	GS35: 1.7 sec. (approx.) GS25: 1.3 sec. (approx.)
LCD Panel Light	Yes	Yes	Yes	Yes	—
WEB Camera Function	Motion JPEG 320 x 240 approx. 6 fps	Motion JPEG 320 x 240 approx. 6 fps	Motion JPEG 320 x 240 approx. 6 fps	Motion JPEG 320 x 240 approx. 6 fps	Motion JPEG 320 X 240 approx. 6 fps
<b>CARD SECTION</b>					
Card Slot	SD/MMC	SD	SD	SD	SD
Still Picture	JPEG Picture size 2288 x 1728 4MEGA or 1600 x 1200 or 1280 x 960 or 640 x 480	JPEG Picture size 2048 x 1512 3.1 MEGA or 1600 x 1200 or 1280 x 960 or 640 x 480	JPEG Picture size 1760 x 1320 2.3 MEGA or 1280 x 960 or 640 x 480	JPEG Picture size 1520 x 1152 1.7 MEGA or 640 x 480	JPEG Picture size 640 x 480
DPOF	Max. 999 stills	Max. 999 stills	Max. 999 stills	Max. 999 stills	Max. 999 stills
Consecutive Photoshot	10 stills with 0.7 sec. interval [VGA]	10 stills with 0.5 sec.[0.7sec. at the shutter speed 1/25] interval [VGA]			10 stills with 0.5 sec. interval [VGA]
PictBridge	Yes	Yes	Yes	Yes	—
<b>VTR SECTION</b>					
Format	DVC - SD	DVC - SD	DVC - SD	DVC - SD	DVC - SD
Recording Mode	SP/LP	SP/LP	SP/LP	SP/LP	SP/LP
Playback Mode	SP/LP	SP/LP	SP/LP	SP/LP	SP/LP
Variable Speed Search	Max. 20x Speed	Max. 20x Speed	Max. 20x Speed	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	PCM 12 bit 4 ch/16 bit 2 ch	PCM 12 bit 4 ch/16 bit 2 ch	PCM 12 bit 4 ch/16 bit 2 ch
Audio Dubbing	Yes	Yes	Yes	Yes	Yes
Index	Auto Making	—	—	—	—
Counter	Linear Time Counter, Time Code	Time Code	Time Code	Time Code	Time Code
Tape Remaining Indication	Yes	Yes	Yes	Yes	Yes
<b>TERMINALS</b>					
S-Video Input/Output	In/Out	In/Out	Out	Out	Out
AV Input/Output (mini)	In/Out	In/Out	Out	Out	Out
Microphone (stereo mini)	Yes	Yes	Yes	Yes	Yes
Headphones (M3)	HP Out or AV In/Out	HP Out or AV In/Out	HP Out or AV Out	HP Out or AV Out	—
USB	2.0 High-Speed (mini B)	2.0 High-Speed (mini B)	2.0 High-Speed (mini B)	2.0 High-Speed (mini B)	2.0 High-Speed (mini B)
DV Input/Output (IEEE1394)	In/Out	In/Out	In/Out	In/Out	In/Out
Accessory Shoe	Hot	Hot	Hot	—	—
<b>STANDARD ACCESSORIES</b>					
AC Adaptor	1 Battery Charge Type	1 Battery Charge Type	1 Battery Charge Type	1 Battery Charge Type	1 Battery Charge Type
Battery Pack	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion
Shoulder Strap	Yes	Yes	Yes	Yes	Yes
Free-style Remote Controller	Yes (with Mic.)	Yes (with Mic.)	Yes (with Mic.)	Yes (without Mic.)	Yes (without Mic.)
AV Cable (RCA - 4 pin)	Stereo	Stereo	Stereo	Stereo	Stereo
IR Remote	Yes	Yes	Yes	Yes	Yes
Lens Cap	Yes	Yes	Built-in Type	Yes	Yes
PC Cable	USB	USB	USB	USB	USB
CD-ROM	Disc1: •SD Viewer 3.1E for DV (USB Driver/Video Stream Driver) Disc2: •MotionDV STUDIO 5.1E LE for DV	•MotionDV STUDIO 5.3E LE for DV •USB Driver •Video Stream Driver	•MotionDV STUDIO 5.3E LE for DV •USB Driver •Video Stream Driver	•MotionDV STUDIO 5.3E LE for DV •USB Driver •Video Stream Driver	•MotionDV STUDIO 5.3E LE for DV •USB Driver •Video Stream Driver

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

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