

Panasonic

GS70

Digital Video Camera



3CCD Picture Quality Now Fits in the Palm of Your Hand

Now there's a compact, user-friendly video camera with all the great picture quality of a 3CCD camera system, plus plentiful powerful functions for versatile shooting performance.



Main Features

- ★ 3CCD Camera System
- ★ Leica Dicomar Lens
- ★ 1.77 MEGA Pixel Still Picture Recording
- ★ Free-Style Remote Controller with Mic
- ★ One Touch Free-Style Grip Belt

DIGITAL NETWORKING

GS70

e.cam



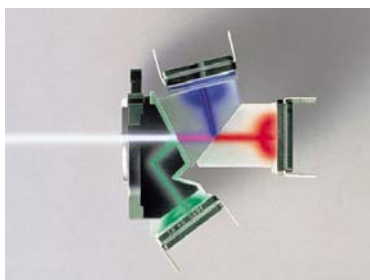
Mini DV Digital Video Cassette PAL



Excellent Picture

Compact Body with 3CCD Camera System

You can hold it securely in one hand for easy shooting, and it's small and light enough to take anywhere. The camera section uses three separate CCDs (the image producing component), one each for red, green and blue (RGB), the primary colours of light. This is the same system used in professional video cameras. The result is brilliant colour rendition with detailed gradation.



Leica's Image-Rendering Ability – Leica Dicomar

Leica's legendary optical technology and know-how come shining through in the superb Leica Dicomar lens. Its outstanding detail, crisp rendering and smooth, natural imaging – features for which all Leica lenses are renowned – will inspire your imagination and creativity.



**LEICA
DICOMAR**

1.77 MEGA Pixel Still Picture Recording

The GS70 lets you capture beautiful still images as well as moving pictures. Panasonic's Quad-Density Pixel distribution technology effectively doubles the number of pixels both vertically and horizontally. The resulting 1.77 MEGA Pixels combine with the 3CCD camera system to deliver outstanding still images.

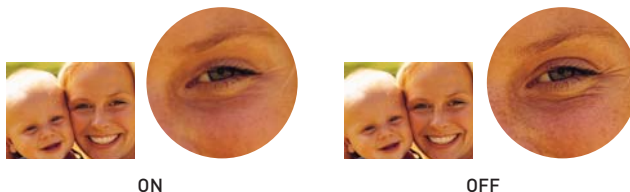
Number of Recordable Still Images (approx.) 1536 x 1152 pixels

	512MB	256MB	128MB	64MB	32MB	16MB	8MB ^{*1}
Fine	480	240	120	60	30	14	5
Normal	800	400	200	100	50	24	9
Economy	1040	520	260	130	65	30	12

- ^{*1} With preset titles, the included 8MB SD Memory Card provides less storage capacity than listed here.
- You can also record VGA (640 x 480 pixels) still images.
 - The number of recordable images will differ if more than one mode (Fine, Normal, Economy) is used.
 - These figures vary depending on the subject being recorded.

Soft Skin Detail

When this detects skin tones, it softens the focus in that area. This function has a powerful 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.



Tele Macro Mode

At the extreme zoom-in position, you can shoot macro close-ups at distances as close as 40cm. Since this lets you shoot your subject from a distance while achieving extreme close-ups on a par with a wide macro at 2cm, you can better avoid casting a shadow on the subject from camera or operator, while also keeping the background unfocussed.





User-Friendly Design

Free-Style Remote Controller with Mic

Now it's simple to take low-angle, high-angle and fixed-position shots using a tripod, with fingertip operation of start, stop and zoom. Plus the GS70's remote controller has an integrated microphone that is convenient for adding narrative commentary or recording interviews as you shoot.



One Touch Free-Style Grip Belt

Depending on the angle, the grip belt can be used in two ways. For ordinary frontal shooting, it works as a grip belt. For convenient shooting at the eye level of small children and pets, for example, it can be re-attached easily as a strap. Just press a button to release the belt; there's no hassle as with conventional belt holders.



0 Lux Colour Night View with LCD Panel Light

Flipping the LCD panel over toward the subject makes it work as a gentle supplemental light source that is easy on the eyes. This enables colour images to be recorded in conditions of complete darkness (0 lux). And, as with the previous model, in light as low as 1 lux the Colour Night View function permits colour video shooting without needing any optional video light.



Air Soft Grip

Moulded to fit the shape of a human hand, this advanced design uses air-filled hollow construction in the finger area of the GS70 to dramatically improve grip stability and minimize fatigue during extended shooting sessions.



1.7 sec Quick Start

The GS70 is quick enough to catch sudden shots that slower conventional cameras miss. Turn on the power and in approximately 1.7 seconds the quick-response GS70 is ready to shoot. You can start shooting almost as soon as you see a shot you want.

Consecutive Still Picture Shooting

Capture a rapid sequence of stop-action shots with this convenient function. In high-speed mode it shoots 14 images per second, and up to 16 shots in a row (VGA image quality).

Networking

SD Memory Card Compatibility



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.

MPEG4 Internet Movie

The GS70 can record image data in high-compression MPEG4 movie format, ideal for e-mailing and posting on the Internet. Simply upload your favourite moving picture data stored on an SD Memory Card to your PC, and you're ready to send it via e-mail, add it to your Web site or use it any way you like.

* The GS70's MPEG4 files are compatible with Windows PCs.

* To view MPEG4 moving pictures on a PC, Windows® Media Player 6.4 or higher version (available for free on the Microsoft Web site) and the necessary application (provided on the enclosed CD or available for free on the Microsoft Web site) are required.

Maximum Recording Time (approx.)

	512MB	256MB	128MB	64MB	32MB	16MB	8MB*1
Super Fine	2h 20min	1h 10min	35min	17min	8min	4min	90sec
Fine	3h 17min	1h 33min	44min	21min	10min	5min	2min
Normal	10h 30min	5h	2h 20min	1h 5min	32min	15min	6min

*1 With preset titles, the included 8MB SD Memory Card provides less storage capacity than listed here.

• Picture size: Super Fine; 320 x 240 pixels, Fine/Normal; 176 x 144 pixels

• The continuous recording time for moving pictures is as follows:

• Super Fine/Fine Mode: 2 minutes • Normal Mode: 60 minutes (The recording stops automatically when it continues for the duration indicated above.)

• The recording time will differ if more than one mode (Super Fine, Fine, Normal) is used.

WEB Camera Function

With the GS70 connected via USB cable to a PC, start up Windows® NetMeeting® and the GS70 instantly turns into a web camera. Ideal for teleconferencing over the Internet, or for surveillance camera use.

* Windows NetMeeting Ver 3.01 or later is needed to use this function.

SD Voice Recorder

Images aren't the only thing you can record with the GS70. Its Voice Recording function lets you take notes without a notebook. The built-in, high-performance microphone provides superb digital sound.

* Cannot be played on other devices.

Voice Recording Time (approx.)

512MB	256MB	128MB	64MB	32MB	16MB	8MB*1
34h 30min	17h	8h 10min	4h	2h	58 min	25 min

*1 With preset titles, the included 8MB SD Memory Card provides less storage capacity than listed here.

Standard Accessories

- 8MB SD Memory Card
- USB Connection Kit
- Free-Style Remote Controller with Mic
- AC Adaptor, DC Input Lead and AC Main Lead
- Battery Pack (Lithium-Ion)
- Infra-Red Remote Controller
- Lens Cap
- AV Cord
- Shoulder Strap

Optional Accessories

POWER

Rechargeable Lithium-Ion Battery Pack



CGA-DU14



CGA-DU21

FILTER & LENSES

Tele Conversion Lens



VW-LT3714M2

Wide Conversion Lens



VW-LW3707M3

ND Filter



VW-LND37

MC Protector



VW-LMC37

SHOOTING

Stereo Zoom Microphone



VW-VMH3

Video DC Light



VW-LDH3

Tripod



VZ-CT55

SOFTWARE

DV Editing Software: MotionDV STUDIO 3.0



VW-DTM20



VW-DTM21



VW-DTM22

DATA TRANSFER

PC Card Adaptor for SD Memory Card



BN-SDABP

USB Reader Writer for SD Memory Card



BN-SDCAP

DV Cable



VW-CD1

SD Memory Card



RP-SD016
RP-SD032
RP-SD064
RP-SD128
RP-SDH256
RP-SDH512

PRINTING

SD Mobile Printer



SV-P20

Digital Photo Printer



SV-AP10

NV-GS70EG Specifications

GENERAL

Power Source	Battery pack: 7.2 V, AC adaptor: 7.9 V
Power Consumption	LCD monitor ON: 4.2 W, OFF: 3.3 W
Weight	Approx. 490 g (without battery pack)
Dimensions	Approx. 71 (W) x 77 (H) x 132 (D) mm

CAMERA

Pick-up Device	1/6" CCD x 3 (RGB)
Lens	f 2.45 – 24.5 mm (35 mm still camera equiv.: f 42 – 420 mm)
Focal Length	10:1 variable speed power zoom (24.4 – 1.0 sec.)
Optical Zoom	F 1.8 (wide) – F 2.8 (tele)
F Number	Wide range (with tele macro)
Macro	37 mm
Filter Diameter	0.24" colour LCD
EVF	2.5" colour LCD (113,578 pixels)
Built-in Monitor	Stereo zoom microphone
Built-in Mic	Digital Effect 1
Digital Functions	Digital Effect 2
Digital Effect 1	Wipe, mix, strobe, gain-up, trail, mirror, mosaic, multi screen, picture in picture
Digital Effect 2	Negative, black & white, sepia, solarization
Zoom	10:1 – 500:1

VTR

Tape Format	Mini DV (consumer-use Digital Video SD format)
Recording Time	SP: 80 min. with DVM80, LP: 120 min. with DVM80
Television System	CCIR: 625 lines, 50 fields, PAL colour signal
Audio Recording Format	PCM stereo: 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)
FF/REW Time	2 min. 20 sec. with DVM60
Playback Digital Functions	Wipe, mix, strobe, trail, mirror, mosaic, multi screen, negative, sepia, black & white, solarization
Playback Digital Zoom	Up to 10:1

INPUT/OUTPUT

Digital in/out	IEEE1394 DV terminal, USB 2.0 compatible
Audio out	316 mV, 600 ohms (RCA)
Video in/out	1.0 Vp-p, 75 ohms (RCA)
Mic in	-70 dBV, 5.6 kohms (M3)
Headphones	77 mV, 32 ohms (stereo mini)

AC ADAPTOR

Power Source	AC 110 - 240 V, 50/60 Hz
Power Consumption	19 W
DC Output	DC 7.9 V, 1.4 A (movie camera operation), DC 8.4 V, 0.65 A (battery charging)

• Weight and dimensions shown are approximate. • Design, functions and specifications are subject to change without notice. • All monitor pictures are simulated.
• This video camera is compatible with tapes that bear the Mini DV logo only. • Leica is a registered trademark of Leica Microsystems IR GmbH and Dicomar is a registered trademark of Leica Camera AG. • Microsoft® and Windows® are registered trademarks of Microsoft Corporation of the U.S.A.

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