Specifications

AG-HSC1U	Image Sensor	1/4" CCD x 3				
		[560 k x 3 pixels, Total / 520 k x 3 [16:9] (Motion Picture / Still Picture) Effective]				
	Lens	12x Variable Speed Zoom F 1.8 (wide) / 2.8 (tele)				
		35 mm Film Camera Equivalent 38.5 - 462 mm [16:9] (Motion Picture / Still Picture)				
	Filter Diameter	43mm				
	Zoom	Optical: 12x / Digital: 30x / Super Digital: 120x				
	Monitor	3.0" Wide LCD (250 k pixels)				
	Microphone	5.1-ch Surround Sound, Zoom Mic				
	Speaker	∮ 20 mm, Dynamic Round Speaker				
	White Balance	Auto / White Set / Indoor / Outdoor (with IR Sensor)				
	Standard Illumination	1,400 lux				
	Minimum Illumination	Under 6 lux (Low Light Mode, 1/60), Color Night View Mode: Under 2 lux				
Interfaces	Video OUT	1.0Vp-p 75Ω (AV Multi)				
	Component Video Output	t Y: 1.0Vp-p 75Ω Pb: 0.7Vp-p 75Ω Pr: 0.7Vp-p 75Ω				
	HDMI Output	HDMI Ver.1.2a 1125i (1080i) 525p (480p)				
	Audio Out	316mv 600Ω 2ch				
	Mic. in	Stereo Mini Jack (Plug in Power),				
		Sensitivity: -70dBv / -50dB (0dB=1V / Pa,1kHz), 5,600Ω				
	USB Terminal	2.0 High Speed (mini B)				
		Card Reader Writer (with Copyright Protection Function), PictBridge Compatible				
Moving Pictures	Recording Media	SD Memory Card (256MB - 2GB), SDHC Memory Card (4GB)				
	Recording Format	AVCHD (1440 x 1080 / 60 i)				
Visual Format	Compression Method	MPEG-4 AVC / H.264				
	Audio Recording Format	Dolby Digital (5.1ch, 2ch)				
Still Pictures	Recording Media	SD Memory Card (256MB - 2GB), SDHC Memory Card (4GB)				
	Recording Format	JPEG (DCF / Exif2.2 Standard), OPOF Corresponding				
	Recording Image Size	1,920 x 1,080 (Wide)				
General	Dimensions (W x H x D)	2.9 x 2.7 x 5.6 inch (Including Protrusions)				
	Weight	Approx. 0.94 lbs (430 g) (without Battery)				
		Approx. 1 lbs (490 g) (with Battery Pack, SDHC Memory Card)				
	Supply Voltage	DC 9.3 V / 7.2 V				
	Power Consumption	8.0W				
	Operating Temperature	32°F to + 104°F (0°C to + 40°C)				
	Operating Humidity	10% to 80% (No Condensation)				
	Standard Accessories	SDHC Memory Card (4GB), AC Adaptor, AC Cable, DC Cable, Battery Pack (1,320 mAh), Component Video Cable, AV Cable, IR Remote,				
		Dattery rack (1,020 mail), Component video Cable, Av Cable, in riemote.				

Panasonic

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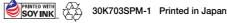
Tel. 51-1-614-0000 Fax. 51-1-452-9415 Tel. 55-11-3889-4035 Fax. 55-11-3889-4004





Factories of Systems Business Group have recein ISO14001:2004-the Environmental Management





Panasonic ideas for life

High Definition Video Camera AG-HSC1U

Professional HD picture quality in the palm of your hand! The SD Memory Card has changed everything.









Beijing 2008

000

The world's smallest," lightest professional HD camcorder. SD/SDHC Memory Card recording with HD picture quality.

To meet the increasing needs of HD content production, Panasonic developed a new AVCHD camcorder for low-cost HD acquisition. Thanks to professional refinements, which consumer camcorders don't include, color reproduction is the same as that provided by Panasonic's series of professional models. What's more, the new AVCHD standard means you can enjoy extended HD recording onto an SD/SDHC Memory Card. With its compact body, colored metallic gray to reduce reflection, this superb camcorder presents a new world of possibilities for people who are serious about image production.

*1 As of January 17, 2007, Applies to 3000 HD camcorder

A new standard for recording HD signals onto memory cards/ DVD/Hard Disk Drive. Uses the H.264 system which provides over

A new standard for recording HD signals onto memory cards/ DVD/Hard Disk Drive. Uses the H.264 system which provides over Twice the compression efficiency of MPEG-2 and MPEG-4.

* AVCHD and the AVCHD logo are trademarks of Matsushita Electric Industrial Co., Ltd. and Sony Corporation

Ideal Camcorder Shape with Mechanism-less Drive

About 90 minutes of HD

recording with the supplied

4GB SDHC Memory Card!

Using an SD/SDHC Memory Card as the recording medium enables a mechanism-less construction¹² without the need for a tape or disc drive system. This assures excellent reliability, fast operation and enables a compact, lightweight design.

*2 The use of an SDHC Memory Card/SD Memory Card eliminates the need



The World's Smallest and Lightest*1 3CCD HD Camcorder

No Missed Shooting Opportunities with 1.7 Sec. Ultra-Fast Quick Start

There's no need for a motor to start when you switch the power on, so you're ready to shoot those not-to-be-missed scenes in just 1.7 seconds with Quick Start's. And because recording is automatically performed to empty areas of the card, there's no need to search for a blank part as when using a videotape camcorder.

Tough Shock- and Dust-Proof Body

Thanks to the mechanism-less construction¹², which doesn't require drive circuitry to move a tape or disc, the design is exceptionally well sealed to keep dirt and dust out as well as protect against shocks. It also offers strong protection from condensation forming due to rapid temperature changes, an ideal feature when shooting outdoors.



Professional Tuning for Superb Color Reproduction

Color reproduction with features such as color matrix, chroma gain and gamma curve, for the same professional tuning as Panasonic's professional models. The result is image quality that professionals demand.

LEICA

Panasonic

Digital HD Video Camera

AG-HSC1U



40GB Hard Disk Drive (HDD) &



DICOMAR

High Image Quality Technology Developed for HD Shooting

New Design for HD Image Quality. Leica Dicomar Lens

■ 12x Optical Zoom Lens

superb HD image quality.

With the optical system, the lens itself

zooms in on the subject, so even with

12x zoom vou can enjoy shooting with

Leica Dicomar Lens for Beautiful Wide-Angle and Zoom Images

Featuring 13 individual lens elements arranged in 10 groups, the Dicomar lens boasts the ideal design for HD shooting applications. The lens elements are made of low dispersion glass to assure low chromatic aberration and high resolution. And 21 multi-coated lens surfaces minimize flare and ghosting. The result is sharp, crisp images with delicate nuances and exceptional shading.

■ Wide-Angle 38.5mm Lens

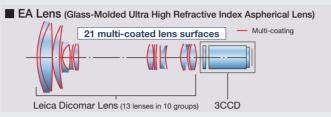
The glass-molded ultra high refractive index aspherical lens enables wideangle shots with a wide end of 38.5mm (35mm conversion) with a compact unit.

•Leica is a registered trademark of Leica Microsystems IR GmbH.

- Dicomar is a registered trademark of Leica Camera AG.
- Leica Dicomar products are manufactured using Leica-Certified measuring instruments and quality assurance systems based on rigorous quality standards approved by Leica Camera AG.

Optical Image Stabilizer Suppresses Hand-Shake

With this Optical Image Stabilizer (O.I.S.), the lens itself moves to correct hand-shake. The result is highly precise correction for virtually no image quality degradation.



Because the optical system uses a gyrosensor to detect hand-shake and the lens itself moves to correct it, correction is extremely precise to assure virtually no image quality degradation. This lets you enjoy beautiful HD quality images even in shooting situations where hand-shake can easily occur, such as with zoom shots and when shooting indoor or night scenes when there is little light.

* Due to particularly large vibrations caused by hand-shake or other conditions,

Low Bit Rate & High Resolution Recording AVCHD Specifications

A World First* - HD Recording onto an SD/SDHC Memory Card

The unit features a new AVCHD (MPEG-4, AVC/H.264) standard system developed for recording HD signals onto memory cards/DVD/Hard Disk Drive. Providing compression efficiency surpassing that of MPEG2, for the first time in the world this system enables 1080i high definition recording with AVCHD onto an SD/SDHC Memory Card.

■ Memory cards that can be used

LEICA

DICOMAR

Panasonic

•				
Card capacity		High speed SDHC	High speed	Pro high speed
SDHC Memory Card	4GB	RP-SDM04G RP-SDR04G		
	2GB		RP-SDR02G	RP-SDK02G
SD Memory Card	1GB		RP-SDR01G	RP-SDK01G
os momor, cara	512MB		RP-SDR512	RP-SDK512
	256MB		RP-SDH256	

The Panasonic memory cards listed above are recommended for Video shooting
(As of March 2007)

About 90 minutes* of HD Recording Possible

The newly developed LSI uses High Profile to achieve high compression performance while high resolution recording is provided with a low bit rate. You can enjoy about 90 minutes of HD (1080i) recording onto the supplied 4GB SDHC Memory Card. And

Variable Bit Rate (VBR) compatibility means dramatically reduced image degradation during rapidly changing scenes

* In the HE (long play/record) mode.

■ Motion picture recording time (approx.)

Capacity	SDHC Memory Card	SD Memory Card				
quality	4GB	2GB	1GB	512MB	256MB	
HF (13Mbps)	40min.	20min.	10min.	5min.	2min.	
HN (9Mbps)	60min.	30min.	15min.	7min.	3min.	
HE (6Mbps)	1h 30min.	45min.	22min.	10min.	5min.	





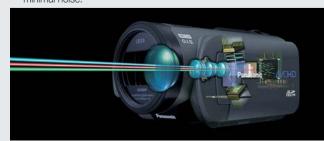
High Sensitivity and Resolution with the 3CCD HD System

1/4-inch Progressive CCD for Faithful Color Reproduction

To assure high sensitivity, Panasonic developed a 1/4-inch progressive CCD. The result is high color resolution enabling recording of detailed images with natural hues.

■ Enlarged photosensor area for noiseless dark scenes

Enlarging the area of each CCD pixel enables high sensitivity shots in light as low 6 lux. Which means you can even shoot dark scenes with minimal poise.



High-Precision Progressive Scan

In the AG-HSC1U's camera section, the progressive CCD creates native progressive images with outstanding vertical resolution. Progressive interlace conversion is then used to provide image quality higher that possible with images produced using conventional electronic interpolation of interlaced signals. There's also progressive 3D noise reduction.

Dramatically reduced noise and after images.





Progressive

Thorough Approach to Sound, Still Images and Easy Operation

Five-Mic Unit for Recording with Exceptional Presence

The five built-in microphones enable 5.1 channel sound recording for incredible presence. Better still, when zooming in on a subject, the five microphone units function as an ultra directional zoom microphone. So there's more atmosphere when taking wide angle shots, and when taking zoom shots you can zoom in on the sound in front of your subject.



The result is sound reproduction with a level of directionality that cannot be expressed by conventional 2-mic systems.

Fast Scene Search with Thumbnail View

Image data is recorded as a file for each scene. Thumbnail images and file information are automatically attached to each file to enable smooth, easy confirmation and deletion of files displayed on the LCD monitor.



Other valuable features

- 2.1 Mega-Pixel Still Image Recording enables still image shots during video shooting.
- Auto Ground-Directional Standby (AGS) automatically pauses recording if the camera is pointed down.
- TV Link capability for easy playback or recorded images on a large-screen TV, like a widescreen Panasonic plasma model.
- Telemacro lets you shoot macro close-ups while maintaining a distance of 2ft. from your subject for authentic extreme close-up shots.
- High speed shutter adjustable to as fast as 1/8,000 sec. when shooting moving and still images.
- Auto Lens Cover automatically opens the lens cover when the power is switched on. Switch off the power and the cover closes to protect the lens.
- In the Beautiful Skin mode, areas of skin color are detected and soft focus is applied to make small blemishes and wrinkles less noticeable.
- The body is satin-finished metallic gray to prevent reflections.

Extra Mobility Enables Video Editing

Shoot, transfer to a PC and output - ready to use and re-use

High-Speed Copying to Hard Disk Drive **Supplied SD Media Storage**

SD Media Storage is provided to eliminate the problem of insufficient data storage capacity when shooting. The touch of a button is all it takes to complete high-speed transfer* of data from an SD/SDHC Memory Card to the Hard Disk Drive. The Hard Disk Drive has a capacity of 40GB, the same capacity as 10 4GB SDHC Memory Cards. Battery operation is also possible so you'll have no problems in locations where there's no power supply.

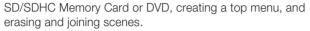
- •With this unit alone you cannot copy data from the Hard Disk Drive to an SD/SDHC Memory Card. A PC and USB connection are required.
- Maximum speed about 8x normal. Speed differs depending on the SD/SDHC Memory Card used.



Accessory SD Media Storage

Data Transfer to a PC and DVD Also Possible **Supplied PC Software**

The simple, intuitive PC software "HD Writer Ver.1.0E for SD1" is included. It lets you perform operations such as importing moving images or transferring them to an



[Compatible OS] Microsoft® Windows® XP Home Edition SP2, Microsoft® Windows® XP Professional SP2, Microsoft® Windows® 2000 Professional SP4 preinstalled Japanese versions (not compatible with Macintosh).

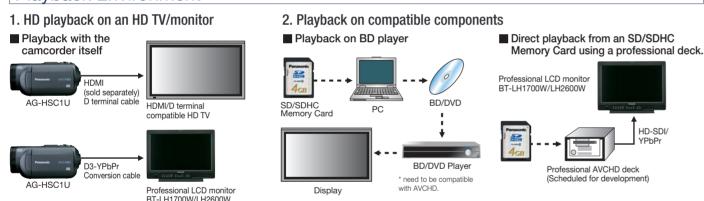
ICPUI Intel® Pentium® 111 1.0GHz or higher (when using the Preview function (30fps), an Intel®

■SD Memory Card-to-DVD Copying Without Cables



Do not load discs created using the supplied HD Writer Ver. 1.0E for SD1 software in components that do not comply with AVCHD specifications as it may not be possible to eject the disc. Playback is also not possible with components that do not comply with AVCHD specifications.

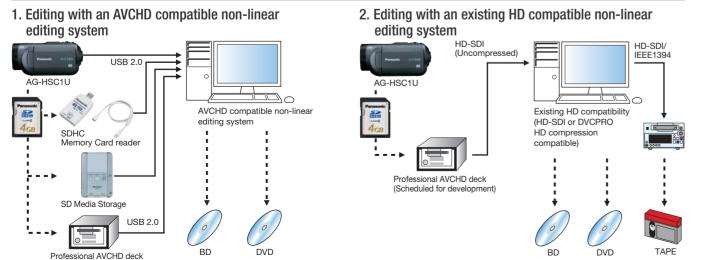
Playback Environment



^{*} Separate D terminal adapter and D terminal component cable required.

Editing Environment

(Scheduled for development)









AV OUT Component erminal Video Output Side view

modes with your fingertip without changing your grip on the camcorder

Cross Key Controls

Easy-to-press cross keys enable sure, comfortable single-handed control even while shooting.

Still Image Shooting **During Video Shooting**

The Photo Shot button lets you simultaneously shoot still images while shooting moving images, so you won't miss the perfect shot when the opportunity arises.

igital HD video camera options





accessories possible



Connection via a

shoe adaptor

VW-LDC102PPS

VW-VBG130PPK ● 1.320mAh (supplied with the AG-HSC1U)





VW-AD21PP-K





VW-T4314H