Professional HD picture quality in the palm of your hand! The SD Memory Card has changed everything.
The world's smallest,*1 lightest 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 and metallic gray color to reduce reflection, this superb camcorder presents a new world of possibilities for people who are serious about image production.

1 As of December 1, 2006. Applies to 3CCD HD camcorder.

Professional Tuning for Superb Color Reproduction

Color reproduction with features such as color matrix, chroma gain and gamma curve, for the same professional look as Panasonic's professional models. The result is image quality that professionals demand.
Ideal Camcorder Shape with Mechanism-less Drive

Using an SD/SDHC Memory Card as the recording medium enables a mechanism-less construction² 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 for a drive mechanism to move a tape or disc.

The World’s Smallest and Lightest¹ 3CCD HD Camcorder

By using a compact, lightweight medium, Panasonic succeeded in dramatically reducing body size and weight. This extra mobility enables even more shooting versatility.

"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*. And because recording is automatically performed to empty areas of the card, there’s no need to search for a blank area as when using a videotape camcorder.

* When the Quick Start mode is selected, the time required to enable shooting after opening the LCD.

Tough Shock- and Dust-Proof Body

Thanks to the mechanism-less construction², 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.

About 90 minutes of HD recording with the supplied 4GB SDHC Memory Card!

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

High Definition Video Camera
AG-HSC1U

Supplied SD Media Storage
40GB Hard Disk Drive & SD/SDHC Memory Card compatible
High Image Quality Technology Developed for HD Shooting

New Design for HD Image Quality. Leica Dicomar Lens

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 wide-angle shots with a wide end of 38.5mm (35mm conversion) with a compact unit.

12x Optical Zoom Lens
With the optical system, the lens itself zooms in on the subject, so even with 12x zoom you can enjoy shooting with superb HD image quality.

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.

Leica Dicomar Lens for Beautiful Wide-Angle and Zoom Images

Optical Image Stabilizer Suppresses Hand-Shake

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 noise.

High-Precision Progressive Scan
In the AG-HSC1U’s camera section, the progressive CCD creates native progressive images with outstanding vertical resolution. Progressive interface conversion is then used to provide image quality higher than possible with images produced using conventional electronic interpolation of interlaced signals. There’s also progressive 3D noise reduction. Dramatically reduced noise and after images.

Interlaced scan

Progressive scan
Low Bit Rate & High Resolution Recording AVCHD Specifications

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.

* As of December 1, 2006. Applies to the consumer High Definition Video Camera (AVCHD format).

A Comprehensive 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.

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 2 feet 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.

<table>
<thead>
<tr>
<th>Card capacity</th>
<th>High speed SDHC</th>
<th>High speed SD</th>
<th>Pro high speed SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD Memory Card</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4GB</td>
<td>RP-SDM04G</td>
<td>RP-SDR04G</td>
<td>RP-SDK02G</td>
</tr>
<tr>
<td>2GB</td>
<td>RP-SDR02G</td>
<td>RP-SDK02G</td>
<td></td>
</tr>
<tr>
<td>1GB</td>
<td>RP-SDR01G</td>
<td>RP-SDK01G</td>
<td></td>
</tr>
<tr>
<td>512MB</td>
<td>RP-SDR512</td>
<td>RP-SDK512</td>
<td></td>
</tr>
<tr>
<td>256MB</td>
<td>RP-SDH256</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The newly developed LSI uses High Profile to achieve outstanding 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.)**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Full HD (13Mbps)</th>
<th>HD (9Mbps)</th>
<th>Standard Definition (6Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD Memory Card</td>
<td>40min. 20min. 10min. 5min. 2min.</td>
<td>60min. 30min. 15min. 7min. 3min.</td>
<td>1h 30min. 45min. 22min. 10min. 5min.</td>
</tr>
</tbody>
</table>
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 GB 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.

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 SD/SDHC Memory Card or DVD, creating a top menu, and erasing and joining scenes.


(CPU) Intel® Pentium® 1.0GHz or higher (when using the Preview function (30fps), an Intel® Pentium® 4 HyperThread 3.0GHz or higher) CPUs (including compatible CPUs)

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

1. HD playback on an HD TV/monitor
   - Playback with the camcorder itself
     - AG-HSC1U
     - HDMI (sold separately)
     - D terminal cable
     - D terminal cable is required.
     - D3-YPrPbPr Conversion cable

2. Playback on compatible components
   - Playback on BD player
     - SD/SDHC Memory Card
     - PC
     - BD/DVD

Editing Environment

1. Editing with an AVCHD compatible non-linear editing system
   - SDHC Memory Card reader
   - SD Media Storage
   - USB 2.0
   - AVCHD compatible non-linear editing system
     - Apple FinalCutPro Ver. 6.0.1
     - Canopus EDIUS Pro Ver. 4.5
   - HD-SDI (Uncompressed)

2. Editing with an existing HD compatible non-linear editing system
   - HD-SDI (Uncompressed)
   - Existing HD compatibility (HD-SDI or DVCPRO HD compression compatible)

* An SDHC Memory Card reader is required, if an SDHC Memory card is not recognized on your PC.
**Profiles**

**Front view**

**Side view**

**Improved Color Reproduction!**

3-inch, 250,000 pixel display

Features a high-definition LCD monitor

**Indication of Remaining Battery Power**

The number of minutes of remaining battery power is indicated in the LCD monitor so you can shoot without worrying about the power suddenly running out. However, with battery packs other than a genuine Panasonic battery pack, remaining battery time is not indicated in 1 minute units.

**One-Step Navigation**

Icons of often-used menus for each mode are displayed in the LCD monitor. These let you perform operations quickly and easily, without taking your eye off the display.

**Mode Dial**

This handy feature lets you switch 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.

**Digital HD video camera options**

- **Battery pack**
  - VW-VBG130PPK
  - L320mAh
  - (supplied with the AG-HSC1U)
- **AC adaptor**
  - VW-AD21PP-K
  - (supplied with the AG-HSC1U)
- **Video DC light**
  - VW-LDC102PPS
  - Connection via a shoe adaptor
- **Shoe adaptor**
  - VW-SK12PP-K
  - Connection of multiple accessories possible
- **Wide conversion lens**
  - VW-W4307HPPK
- **Tele-conversion lens**
  - VW-T4314HPPK
- **Video DC light**
  - VW-LF43NPP-K

* Cannot be used with the supplied SD Media Storage
### Specifications

#### AG-HSC1U

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Sensor</strong></td>
<td>1/4&quot; CCD x 3</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>12x Variable Speed Zoom  F 1.8 (wide) / 2.8 (tele)</td>
</tr>
<tr>
<td><strong>Filter Diameter</strong></td>
<td>43mm</td>
</tr>
<tr>
<td><strong>Zoom</strong></td>
<td>Optical: 12x / Digital: 30x / Super Digital: 120x</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>3.0&quot; Wide LCD (250 k pixels)</td>
</tr>
<tr>
<td><strong>Microphone</strong></td>
<td>5.1-ch Surround Sound, Zoom Mic</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>ø 20 mm, Dynamic Round Speaker</td>
</tr>
<tr>
<td><strong>White Balance</strong></td>
<td>Auto / White Set / Indoor / Outdoor (with IR Sensor)</td>
</tr>
<tr>
<td><strong>Standard Illumination</strong></td>
<td>1,400 lux</td>
</tr>
<tr>
<td><strong>Minimum Illumination</strong></td>
<td>Under 6 lux (Low Light Mode, 1/60), Color Night View Mode: Under 2 lux</td>
</tr>
</tbody>
</table>

#### Interfaces

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video OUT</strong></td>
<td>1.0Vp-p- 75Ω (AV Multi)</td>
</tr>
<tr>
<td><strong>Component Video Output</strong></td>
<td>Y: 1.0Vp-p- 75Ω  Pb: 0.7Vp-p- 75Ω   Pr: 0.7Vp-p- 75Ω</td>
</tr>
<tr>
<td><strong>HDMI Output</strong></td>
<td>HDMI Ver.1.2a 1125i (1080i) 525p (480p)</td>
</tr>
<tr>
<td><strong>Audio Out</strong></td>
<td>316mV / 600Ω 2ch</td>
</tr>
<tr>
<td><strong>Mic. in</strong></td>
<td>Stereo Mini Jack (Plug in Power), Sensitivity: -70dBv / -50dB (0dB=1V / Pa,1kHz), 5,600Ω</td>
</tr>
<tr>
<td><strong>USB Terminal</strong></td>
<td>2.0 High Speed (mini B) Card Reader Writer (without Copyright Protection Function), PictBridge Compatible</td>
</tr>
</tbody>
</table>

#### Moving Pictures

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recording Media</strong></td>
<td>SD Memory Card (256MB - 2GB), SDHC Memory Card (4GB)</td>
</tr>
<tr>
<td><strong>Recording Format</strong></td>
<td>AVCHD (1440 x 1080 / 60 i)</td>
</tr>
<tr>
<td><strong>Audio Recording Format</strong></td>
<td>Dolby Digital (5.1ch, 2ch)</td>
</tr>
</tbody>
</table>

#### Visual Format

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recording Media</strong></td>
<td>SD Memory Card (256MB - 2GB), SDHC Memory Card (4GB)</td>
</tr>
<tr>
<td><strong>Recording Format</strong></td>
<td>JPEG (DCF / Exif2.2 Standard), DPOF Corresponding</td>
</tr>
<tr>
<td><strong>Recording Image Size</strong></td>
<td>1,920 x 1,080 (Wide)</td>
</tr>
</tbody>
</table>

#### General

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>2.9 x 2.7 x 5.6 inch (Including Protrusions)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 0.95 lbs (430 g) (without Battery)</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>DC 9.3 V / 7.2 V</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>8.0W</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>32°F to +104°F (0°C to +40°C)</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>10% to 80% (No Condensation)</td>
</tr>
</tbody>
</table>

#### Standard Accessories

- SDHC Memory Card (4GB), AC Adaptor, AC Cable, DC Cable, Battery Pack (1,320 mAh), Component Video Cable, AV Cable, IR Remote, PC Cable (USB), CD-ROM (HD Writer Ver. 1.0E for SD1), SD Media Storage
- Panasonic do Brasil Ltda
  - Tel. 55-11-3889-4004
  - Fax. 55-11-3889-4004