AVCCAM 3-Year Warranty Repair Program*  
* AG-HMC80 users qualify for a 3-year warranty on repairs.  
Visit the website for details: www.panasonic.com/avccam

**Bundle with**  
EDIUS Neo 2 Booster  
nonlinear editing software

* Limited time offer. The package model number is the AG-HMC80U.

Panasonic solutions company  
DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA  
www.panasonic.com/business-solutions  
Executive Office: One Panasonic Way, 4E-7, Secaucus, NJ 07094  
EASTERN ZONE: One Panasonic Way, 4E-7, Secaucus, NJ 07094  
PUBLIC INTERNATIONAL: 3330 Cahuenga Blvd W., Los Angeles, CA 90068  
WESTERN ZONE:  
Panasonic Latin America S.A.  
Distribución y Comercio Exterior, S.A.  
Bolivia, Ecuador, Paraguay, Uruguay, Chile  
Tel. 591-2-2106-6641  Fax. 82-2-533-8766

Panasonic AVCCAM 3-Year Warranty Repair Program*  
For Outside US: http://pro-av.panasonic.net/

P2 Asset Support System The member’s service program  
Providing valuable information when you need it

- Free registration, no membership fees
- 3-year extended warranty repair program  
Exclusive offer for AVCCAM!  
Maximum 5-year extended warranty repair is applied for AVCCAM models after registration.  
Several other services are also provided to members.

<table>
<thead>
<tr>
<th>1st year</th>
<th>2nd year</th>
<th>3rd year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic warranty**</td>
<td>AVCCAM</td>
<td>Extended warranty repair**</td>
</tr>
</tbody>
</table>

- Latest news only for you  
In the member’s website, information is selected and presented for your models.  
To be alerted to new firmware information and other releases, an email newsletter can be subscribed to.

- Document library  
You can browse through and find various technical information (operation guides, technical descriptions, etc.) quickly from the library.

- Manage your equipment  
You can easily know the update status and past service history of each unit, and can leave comments in free text as memos about your equipment.

The maximum warranty period may be adjusted depending on the number of hours the device has been used.

Details and user registration: http://panasonic.biz/sav/pass_e

* Not all models are eligible for extended warranty coverage.
* Please note that this extended warranty is not available in some countries/regions. See the website below for details.
* The basic warranty period may vary depending on the country/region. See the enclosed warranty card for warranty coverage.
*2: Not all repair work is covered by this extended warranty. See the enclosed warranty card for warranty coverage.

Please refer to the latest Nonlinear Compatibility Information, AVCCAM Support and Download and Service Information, etc. at panasonic website.

Please refer to the latest Nonlinear Compatibility Information, AVCCAM Support and Download and Service Information, etc. at panasonic website.
The AG-HMC80 allows you to record in DV or in AVCHD for Full-HD image quality. The versatility of the manual functions meet the needs of many professionals.

This shoulder-type AVCCAM opens up a new world of video production.

- 1/4.1 type 3.05-megapixel, progressive 3MOS sensors
- AVCHD (Full High-Definition) and DV (Standard Definition) recording
- 12x optical zoom lens with Optical Image Stabilizer (OIS), and manual focus ring
- Tapeless recording with the reliable, efficient SD Memory Card
- Shoulder-mount style for stable recording
- Versatile Interfaces include XLR audio input, HDMI output, USB 2.0 and DV terminal (IEEE 1394 standard)

The AG-HMC80 is designed for:

- Newsgathering for TV and Newspaper Websites
- Weddings and Events
- Student Video Production
- Student Video Production
- Snow Covered Mountain
- Weddings and Events

SD Memory Card Recorder: Lower Operating Costs, Better for the Environment

- Faster, easier editing because digitization is not necessary
- Lower media costs because memory cards are reusable
- Lower maintenance costs because there is no moving mechanism

By reducing editing, media and maintenance costs, AVCCAM can help improve your bottom line. Users can also take advantage of a special 3-year free-repair service program that Panasonic offers for AVCCAM equipment.

A shoulder pad for extra shooting stability

- Images are recorded with little blurring
- Excellent mobility allows nimble shooting
- Fatigue is minimal even after shooting for hours
Superb Full-HD Image Quality

A Wealth of High image quality Functions for the Age of Full-HD
Precise Tuning Lets You Express Images Exactly as You Intend

sharp, Crisp Rendering of Every Subject

New HD Lens

Featuring 13 elements in 10 groups, the newly developed lens is ideal for Full-HD recording. The lens system uses low-dispersion glass and aspherical lenses to reduce color aberration and boost resolution. Use of a special multi-coating process dramatically reduces flares and ghosts. The result: sharp, crisp, beautifully rendered pictures with vivid colors, delicate nuances, and exceptional shading. This advanced lens also lets you capture 4.0mm wide-angle shots (55mm lens equivalent).

Highly Nuanced Image Expression

3.05-megapixel Progressive 3MOS Sensors

The progressive 3MOS image sensors record Full-HD images with a total, 3.05-megapixel [approx.] resolution. Affective motion-image resolution of 2.51 megapixels [approx.]. This produces full-raster HD images with high resolution and superb image quality. Because each of the three separate image sensors receives one of the three primary colors of light (red, green and blue), they render more precise images and more faithful colors than the single light-receiving 1MOS sensor.

What’s the 3MOS System?

MOS

Light

3MOS

Light of very same color from the color’s is absorbed.

3MOS system receives three times the light utilization of a MOS system.

High-quality, Full-HD Image Production

Full High-Definition is approx. 6 times the screen resolution of Standard Definition images. It displays stunning, high-resolution images.

Full HD: 1920 x 1080

up to 120x Zoom Power

12x Optical Zoom and 10x Digital Zoom

Even at the 490mm zoom setting (55mm lens equivalent), this advanced 12x optical zoom lens is image degradation. And the AG-HMC80 is also equipped with a digital zoom that instantly magnifies the image by any of three fixed values: 2x, 5x or 10x. Use it together with the 12x optical zoom lens, and you get super magnification equivalent to a 120x zoom, without the drop in light intensity that happens when using a lens extender.

Take Clear Shots While Walking or Zooming

Optical Image Stabilizer (OIS)

Because the hand-shake correction is done by actually driving the lens, there’s none of the image degradation that occurs with electronic stabilization. You can capture beautiful, high-quality shots even in situations where hand-shake is typically a big problem – such as when walking, zooming in dim lighting, or shooting outdoors at night.

Suppressed Blocked Shadows and Blown Highlights

Dynamic Range Stretch (DRS)

A gamma curve and knee slope are estimated to match the contrast of each pixel, and applied in real time. When dark, bright, and intermediate shades are all contained in the same scene, this produces excellent gradation for each shade and minimizes blocked shadows and blown highlights. The images that result are enhanced by a visually wider dynamic range.

Images with the Dynamic Range Stretch (DRS) Effect

Image with DRS OFF

Image with DRS ON

High-quality Digital Stills

Still Shots with 10.6-megapixel Resolution (approx.)

The new 3MOS sensors also combine with Panasonic’s proprietary Quad Density Pixel Distribution technology to achieve a resolution that is equivalent to 4 times the normal level. The AG-HMC80 captures still images with approx. 10.6-megapixel resolution (in still image mode, 3:2 aspect ratio), which approaches the level of a high-performance digital still camera. For example, you can use it to shoot both motion and still images for websites.

* Technically, the AG-HMC80 is not equipped with a flash function. The digital zoom cannot be used.
* Still shot is not available in DV mode.

Highly Detailed Image Composition

Advanced Pro Tuning Functions

Matrix settings

Lets you choose basic color hues that convey the desired overall image mood.

NORM1

For colors suited to shooting outdoors or under halogen lights.

NORM2

For colors more vivid than NORM1.

PLUG

For colors suited to shooting indoors under fluorescent lights.

CINE-LIKE

To reproduce colors similar to those in movies.

Knee point settings

Controls the highlights within the frame. [AUTO/LOW/MID/HIGH]

Adjustable H detail level, V detail level, detail coring and skin detail

Corrects edges and removes image noise.

Adjustable chroma level, chroma phase, color temp and master pedestal

Sets the basic levels for brightness and other signals.

Two scene files

The AG-HMC80 can save two sets of camera settings as scene files for instant recall later in similar shooting conditions.

Cine-like Gamma Curves

7-mode Gamma for Richer Gradation

Drawing on technologies developed for the VariCam HD camera recorder for digital cinema, Panasonic has equipped the AG-HMC80 with advanced gamma functions that address seven different shooting scenarios and enhance your creative abilities. This includes the cine-like gamma, which produces the characteristic warm tone of 35mm recordings.

AG-HMC80 Gamma Modes

HD NORM

Suitable for 16 bit recording.

SD NORM

Suitable for 12 bit recording.

HD NORM

Suitable for 12 bit recording.

HIGH

Suitable for 12 bit recording.

CINE-LIKE D

The Cine-like mode shifted to prioritize dynamic range.

CINE-LIKE V

The Cine-like mode shifted to prioritize contrast.

Image with VIDEO GAMMA

Image with CINE-LIKE GAMMA

HD Lens Unit (13 Elements in 10 Groups)

Low-dispersion Glass

Reduces color aberration to produce clear images.

Highly Refractive Lens

Highly Detailed Image Composition

Setsthe basic levels for brightness and other signals.

Astigmatism Lens

Ensures resolution and contrast.

Highly Detailed Image Composition

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Extended Video Recording on an SD Memory Card
Supporting Both DV Mode and AVCHD Mode

### AG-HMC80 recording format

<table>
<thead>
<tr>
<th>Recording Format</th>
<th>File Name</th>
<th>Max. Recording Time</th>
<th>Max. Recording Time with PH mode</th>
<th>Bit Rate</th>
<th>Pixel (H x V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDV</td>
<td>AVCHD</td>
<td>80</td>
<td>48</td>
<td>59</td>
<td>1440 x 1080</td>
</tr>
</tbody>
</table>

### HDV Recording Format

- **1920 x 1080**: High-definition VTR recording format
- **1280 x 720**: Standard-definition VTR recording format

### AVCHD Recording Format

- **1920 x 1080**: High-definition recording format
- **1280 x 720**: Standard-definition recording format

### High-quality Recording Technology

- **Extended Video Recording on an SD Memory Card**: The AG-HMC80 supports extended recording on an SD memory card, allowing for longer recording times.

### Professional Function

- **Quick Response to Change in Shooting Conditions**: The AG-HMC80 can quickly adjust settings for optimal performance in changing conditions.

### AVCHD Mode

- **Large-capacity SDHC Memory Card**: Supports extended recording on an SD memory card.

### High-end AVCHD Image Quality

- **High Bit Rate of the pro-use PH mode**: Offers high-quality AVCHD recording.

### AVCHD Format for high-quality, efficient HD recording

- **Pixel (H x V)**: 1440 x 1080
- **MPEG-4 AVC/H.264**: Enables high-quality video recording.

### Standard Definition Image Quality Recording

**DV Compression Recording Supported**

In addition to AVCHD recording, the AG-HMC80 provides DV recording thanks to the application of a number of F5 HD based technologies to this shoulder type AVCCAM. This means that you can continue using your present editing system just as it is. Images are recorded onto an SD Memory Card, for greater efficiency than conventional tape-based recording.

### Ease, Efficiency, Reliability

**Large-capacity SDHC Memory Card**

Unlike with video tape, there’s no need for cuing with the SDHC Memory Card because recording automatically begins in a blank section of memory. For do you have to worry about accidentally recording over important footage. You can delete unwanted clips instantly right on the spot to preserve memory capacity. Editing after shooting is smooth and easy, with no need for digitizing. The tiny SDHC Memory Card is durable, too. Its operating range is from -19ºF to 186ºF (-25ºC to 85ºC), so you can stop worrying about harsh temperatures or condensation and just concentrate on your shooting. And of course, you never have to worry about problems with dropouts or clogged heads.

### More Efficient than Tape

**Versatile Solid-state Recording Functions**

- **Shot mark**
  
  To simplify shot selection, you can add a mark to the thumbnail images of each clip. You can then display and play only the clips that have shot marks.

- **Pro-REC**
  
  This helps you ensure you always get the shot you want, by letting you continuously store, and subsequently record, images and sounds for three seconds before the REC button is pressed in standby mode.

- **REC check**
  
  You can check the end of the most recently recorded clip with one-touch ease.

- **Last clip delete**
  
  Only the most recently recorded clip is deleted with this one-touch function, adding practical convenience to everyday operation. It can be assigned as a User button function if desired.

- **Meta-data recording**
  
  The data, camera operator, location, title and other information can be added to the video data.

* In AVCHD-mode only.

### Quick, Easy Focusing

**HD Focus Assist**

- **Center zoom/Focus bar function**: The center zoom function enhances the center of the frame for better visibility, and HD Focus assist displays a bar that grows and shrinks to indicate the degree of focusing.

### Waveform Monitor Display

**TC (time-code)**

Waveform Monitor Remaining Battery

**Zoom Number**

Ready for the elaboration of the angle of view.
The AG-HMC80 lets you assign any three of the following 14 functions to the three User buttons for instant access.

- Time stamp
- Interval REC
- The AG-HMC80 comes equipped with a built-in stereo microphones and with XLR (type audio input terminals (2 channels, mic/line switchable, 48V compatible) on the rear panel. You can switch audio channels 1 and 3 separately to either line or front microphone input, which is especially useful when recording interviews or narration.
- The maximum recording duration is 24 hours.
- *Only for motion images.
- *File transfers are not supported.
- *DV mode only.
- *AVCHD mode only.
- *Do not connect any equipment except the remote controller to the remote control jack. Connecting any equipment other than the remote control may cause the image to appear out of focus.

Other Professional Features

- White balance: 2-value memory (channel A, channel B), 2-value preset (2,500k, 6,500k) and Auto Tracking White (AW)
- Mode check: Displays a list of the camera settings on the videofinder and monitor.
- Zebra: Select any level from among 50% to 105%, in 5% steps.
- Center marker: Provides an accurate numeric display of the brightness at center.
- Color bar: Provides a useful test pattern for setting up your monitor and 1 kHz audio test tone.
- TC/UB recording: Provides a built-in SMPT/E time-code generator.
- Camera controls: Controls zoom, REC, Focus and Iris. Allows use of any camera remote controller that is compatible with the AG-DVX100/ HVX200/AFX100/HMC150/HMC40.
- Smooth zoom stop: Use the menu to select standard or smooth zoom stopping.
- Lens (1.4x)
- Optional Optical Accessories (Filter Diameter: 43mm)
- Lens (0.7x)
- VW-W4307HPPK (Stereo mini jack)
- Video DC Light (+ 48 V Compatible)

Professional Audio

XLR Line/Microphone Input

The AG-HMC80 is equipped with an HDMI (High-Definition Multimedia Interface) output, component video outputs and composite output (BNC), allowing HD images to be down-converted and output as Standard Definition images while they are being recorded or played. At the same time, a 16:9 or 4:3 aspect ratio can be selected for Side crop, Letter box, or Squeeze images. Audio output (FCA terminal) enables a wide variety of applications, such as viewing on an external monitor or Standard Definition dubbing.

- Monitor Connection
  - HDMI Output Terminal
  - PC Connection via USB 2.0 (Type B)
  - Recorder or Playback images
  - Professional-level Audio
  - XLR Line/Microphone Input
  - Wide Range of Settings
  - Slow Shutter and Synchro Scan Functions
  - One-touch Operation of Key Functions
  - Three User Buttons

Wide Range of Settings

Slow Shutter and Synchro Scan Functions

The slow shutter function uses image accumulation to allow shutter speeds with frame rates reduced by half or more. The accumulation function is set in AVCHD mode.

- Wide Range of Settings
  - Slow Shutter and Synchro Scan Functions
  - One-touch Operation of Key Functions
  - Three User Buttons

One-touch Operation of Key Functions

Three User Buttons

The AG-HMC80 lets you assign any three of the following 14 functions to the three User buttons for instant access.

- Built-in microphone
- FOCUS button
- FOCUS ASSIST button
- RING switch
- WHITE BAL button
- USER 1-3 button
- SD Memory Card slot
- USB 2.0 terminal
- HDMI terminal
- Audio input (ch1/CH2)
- Audio input (RCA terminal)
- Audio input (XLR terminal)
- Audio input (CH1/CH2)
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Standard Definition Down-conversion Output

Recording or Playback Images

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  - Wide Range of Settings
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  - One-touch Operation of Key Functions
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On-site Recording and Monitoring

Convenient Recording Functions

- Interval REC
  - You can make automatic, intermittent recordings at set intervals from one frame per second to one frame every two minutes. For example, use Interval REC to record operations at a construction site, to shoot sunsets, or to capture time-lapse recordings of blooming.

Time stamp

You can insert time and date information into the video signal. This could be convenient, for example, when observing animals over an extended period, in certain academic uses, in surveillance, court reporting, legal depositions or law enforcement applications.

- Only for video images.
- *Do not connect any equipment except the remote controller to the remote control jack. Connecting any equipment other than the remote control may cause the image to appear out of focus.

Interfaces

Standard Definition Video Output Capability

Diverse Interfaces Expand Applications
AVCCAM Viewer™ (Downloaded for free)

AVCCAM viewer for Windows PC/Mac® allows for previewing AVCCAM files and other AVCHD motion image files. They are a simple operation. Files can be played from an SDHC/SD Memory Card, BD (Bluray Disc™), or hard disk, and saved to a PC (hard disk) from an SDHC/SD Memory Card or BD.

AVCHD/DV Nonlinear Editing (NLE)

- Compatibility w/existing editing environments: AVCHD/DV files can be transferred at high speed by using the USB 2.0 interface to connect the AG-HMC80 to an SDHC/SD Memory Card Reader or to a PC (hard disk) from an SDHC/SD Memory Card Reader.

- The AVCHD/DV Restorer is software for restoring inconsistencies in video data recorded on an SDHC/SD Memory Card. The software mainly targets inconsistent data created due to the power being cut or the like.

- The AVCHD/DV Restorer lets you transfer deleted data from an SDHC/SD Memory Card Reader to a PC (hard disk) from an SDHC/SD Memory Card Reader.

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- AVCHD Viewer® is software for restoring inconsistencies in video data recorded on an SDHC/SD Memory Card. The software mainly targets inconsistent data created due to the power being cut or the like. When the editing of the recorded data on the SDHC/SD Memory Card has been suspended.

- AVCHD Restorer hn/AVCHD Viewer® is software for repairing files if which was erased or formatted accidentally.

- AVCHD SD Card File Recovery (Coming soon)

- The AVCHD SD Card file recovery software is for repairing the file which was erased or formatted accidentally.

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- Bundled with EDIUS Neo 2 Booster Nonlinear Editing Software (Windows PC only)

- The AVCHD Viewer is software for repairing files if which was erased or formatted accidentally.

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