

Panasonic
ideas for life

AG-DVC30
Mini-DV Camera-Recorder (NTSC)



ATHENS 2004



Official Worldwide
Olympic Partner

**LEICA
DICOMAR**

Mini **DV** Digital
Video
Cassette

Multi-style

Multi-Style Design and Performance
A Mobile, Versatile DV Camera for Professionals



Versatile Design



**Total mobility? Easy carrying? Or advanced audio specs?
With the multi-style handle, the choice is yours.**

Designed with the professional in mind, the AG-DVC30 introduces a new detachable handle that adds versatility by letting you use this compact DV camera three different ways.

Style 1: With handle detached, this super-compact 3CCD camera fits easily into a bag or pack for highest mobility.

Style 2: With handle in place, the AG-DVC30 is easy to carry and easy to use, even when shooting at difficult angles.

Style 3: With the optional XLR adapter mounted on the handle, the AG-DVC30 has outstanding audio specs, plus the ability to add two external phantom mics or line inputs with "glow in the dark" level controls.



Versatile Performance



Multiple modes to meet multiple needs — such as the Zero Lux IR mode for night time shooting

With features like time/date superimposition and the Zero Lux IR mode — the world's first* infrared nighttime shooting mode (B&W) in a 3CCD camera-recorder — the AG-DVC30 is ideal for professional monitoring and surveillance use. Add a slow shutter mode for high-sensitivity color recording, Cine-Like gamma curve, and 30-fps frame recording that gives images a film-like appearance, and you've got ultra-flexible performance to meet a host of professional needs. The AG-DVC30 also features the newly developed Leica Dicomar 16x optical zoom lens, which provides superb image rendering in shots ranging from wide angle all the way to telephoto. The motorized zoom is silky smooth and can go from wide to tele in as fast as 1 second (for Sports applications) or as slow as 100 seconds (for dramatic work).

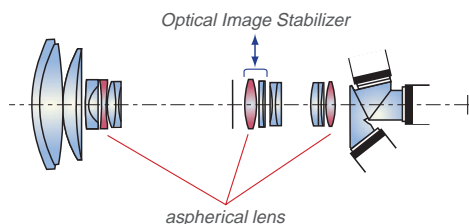
*According to a Panasonic survey

High Quality

Outstanding Image Quality, Sensitivity and Wide-Angle Framing — Plus Extra Versatility

Wide-Angle, High-Magnification Leica 16x Zoom Lens

The AG-DVC30's Leica Dicomar 16x optical zoom lens answers a broad range of shooting needs, delivering superb results from 39.5mm wide angle all the way to 632mm telephoto (both 35mm lens equivalents). In wide-angle performance — critical in broadcast and other professional applications — this lens is tops in its class. Behind this outstanding performance are the advanced optical technologies and expertise that have made Leica Camera AG one of the most respected names in the camera world. This new 16x optical zoom 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 flare and ghosts. The result: sharp, crisp, beautifully rendered pictures with vivid colors, delicate nuances, and exceptional shading.



*Leica and Dicomar are registered trademarks of Leica Microsystems IR GmbH.

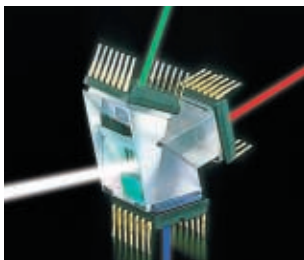
Optical Image Stabilizer Compensates for Hand Shaking

The AG-DVC30's advanced Optical Image Stabilizer (OIS) compensates for hand shaking that occurs as you shoot. A gyrosensor detects hand-shake and sends signals to a linear motor, which adjusts the lens to compensate. Because this process takes place prior to the CCD image capture (rather than in the downstream electronic processing), it virtually eliminates any effect of hand-shake on resolution and screen angle. The OIS can also be helpful when zooming or shooting in dim lighting.

1/4-Inch, 410,000-Pixel 3CCD Image System:

High Sensitivity, Low Noise

To assure a level of picture quality suitable for professionals, the AG-DVC30 uses a 3CCD image system that delivers the highest sensitivity in its class. Its high S/N ratio and extremely low noise (in darker areas of a picture) combines with high sensitivity to deliver excellent image quality even when shooting indoors under dim lighting. When shooting in sunlight or under bright spotlights, this 3CCD system offers low smear.



12-bit A/D and RGB Gamma Processor

The AG-DVC30 features an A/D converter that uses the same 12-bit processing as broadcast-quality camera-recorders. This, combined with an RGB gamma processor that uses Panasonic's unique gamma curve function, helps assure high-image-quality processing. In fact, the AG-DVC30's A/D converter and RGB gamma processor are the same ones used in our popular AG-DVX100A, which has won acclaim as the industry's highest image quality DV camera.



A Digital Zoom for Professionals

Engineered for professionals, the AG-DVC30 is equipped with a digital zoom that instantly magnifies the image by any of five fixed values — 1.25x, 1.5x, 2x, 5x or 10x. Use it together with the 16x optical zoom lens, and you get super-telephoto magnification equivalent to a 160x zoom. Image degradation during the digital processing is particularly low in the 1.25x magnification mode, so you get superb zoom quality all the way to 20x.



Wide (x 1)
Image

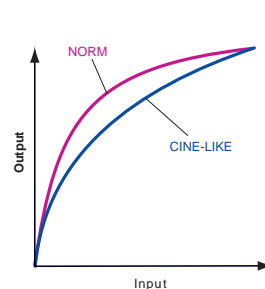
x 20 Zoom Image

Movie Simulation Mode

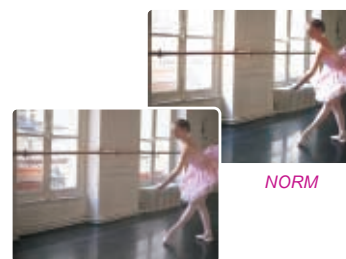
The AG-DVC30 can capture and reproduce images that are strikingly similar in tone to film images, thanks to Panasonic's unique Cine-Like gamma curve and a 30-fps frame recording function that electronically interpolates interlaced images to create frames with no time differences between fields.*

Settings for this mode are preset in the Movie-Like scene file.

*The resulting images are not the same as native progressive images recorded with a progressive CCD.



Gamma Curve and Images (conceptual)



NORM

CINE-LIKE

High-Sensitivity Slow Shutter

The slow shutter function uses image accumulation to allow shutter speeds with frame rates reduced by half or more. The accumulation method provides bright-color images with less noise than those captured using conventional gain-up, so you get the higher sensitivity needed for nighttime shooting without illumination. The slow shutter function can also be used to obtain movie-like effects.



Gain Up Image



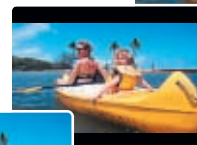
Slow Shutter Image

16:9 Wide Recording

The aspect ratio can be set to either 4:3 or 16:9 to accommodate wide-image recording. In 16:9 recording, you can select either letterbox or squeeze mode, giving you more possibilities in downstream editing and playback.



4:3



16:9 Letter Box



16:9 Squeeze



Zero Lux IR Mode (Super Nighttime Shooting System)

The AG-DVC30 is the world's first* 3CCD camera-recorder to offer B&W recording in the dark using infrared light. This opens the door to a host of new possibilities in nighttime monitoring, surveillance and news gathering. The built-in infrared light makes it possible to record at a distance of about 16 feet** (5 m**). For greater distances, you can add an optional light that allows recording to approximately 98 feet** (30m**).

*According to Panasonic survey **According to Panasonic testing

Date/Time Superimpose Function

The AG-DVC30 can superimpose the date and time onto the video signal as you shoot. This is especially useful and in many cases a requirement for depositions, court reporting and surveillance recordings. The date and time cannot be replaced during dubbing or editing operations, as can happen with most other cameras.



*Image of Zero Lux IR Mode and date/time superimpose.

Night Shooting

Zero Lux IR Mode for Nighttime Monitoring and Surveillance

Operability and

Designed for Easy Use and Highest Mobility



Professional Audio Quality with XLR Mic (Optional)

The AG-DVC30 comes equipped with a built-in stereo microphone. Adding the optional AG-MYA30G XLR adapter provides you with +48 V phantom mic and line input needed for news gathering. Featuring two XLR audio input terminals and level controls, the adapter lets you independently switch channel 1 or channel 2 to mic or line input, with each having its own "glow in the dark" level adjustment.

Audio Level Meters

Two color audio level meters can be displayed in the viewfinder and LCD monitor, making it easy to check the signal as you record.

Full Auto or Manual Shooting

Use the AG-DVC30 for either full auto or manual shooting. The Auto/Manual switch turns the four auto functions — focus, shutter speed, iris & gain, and white balance — on and off as desired. Manual focusing is controlled by the large focus ring. You can also switch between manual and auto focus by pushing the Focus button. For added convenience, one of the user buttons can be assigned to turn auto focus on and off.

Multi-Function Focus Ring

In Auto Focus, control over either the zoom or the iris & gain can be allocated to the focus ring, letting you make quick, detailed adjustments manually.

Three User-Assignable Buttons

The AG-DVC30 provides three user buttons that can be assigned to any of 16 camera functions and three VCR functions. User button 1 is positioned atop the hand grip for easy access when shooting with one hand.

Camera functions: PUSH AF+ZOOM, PUSH AF, WHITE BAL, AWB LOCK, BACKLIGHT, SPOTLIGHT, REC CHECK, D.ZOOM, WHITE FADE, BLACK FADE, PHOTO SHOT, INDEX, SNS (Super Nighttime Shooting), EVF DTL, LUMI-FLICK, AE LOCK

VCR functions: BLANK SEARCH, AUDIO DUB, INDEX

WHITE BAL and SNS can be allocated to user button 1 only.

and Reliability



Focus Assist with One-Push Zoom

When a user button is assigned the PUSH AF+ZOOM function and the AG-DVC30 is in Auto Focus, the camera will continue to zoom as long as you hold the button down, then return to the original zoom position when you release it. This helps you zoom and focus more quickly in manual shooting mode.

Four Scene Files

The AG-DVC30 can save four sets of camera settings as "scene files" for instant recall later in similar shooting conditions. Scene files 1 and 2 are freely settable. Files 3 and 4 are preset (see list below), but you can change the values as desired.

- 1 SCENE 1: User setting (standard values)
- 2 SCENE 2: User setting (standard values)
- 3 B.PRESS: For sharper contrast in dark portions
- 4 MOVIE-LIKE: Movie Simulation Mode

Shooting Support Functions

- **Backlight correction:** Backlighting compensation can be assigned to a user button for instant results.
- **AE Lock:** Locks the subject brightness; can be assigned to a user button.
- **Zebra:** Displays an overexposure warning on the viewfinder and monitor
- **Marker:** Detects and displays the Video Brightness level in a very useful, repeatable numerical value.
- **Mode check:** Displays the camera settings on the viewfinder and monitor, for easy checking before you shoot.
- **Zoom position:** Displays the zoom position as a repeatable, numerical representation in the viewfinder.



3.5" Color LCD Monitor and Tilt-Up Viewfinder

The large 3.5" color LCD monitor rotates 270 degrees, making it easy to shoot at difficult angles and the Mirror mode makes it easy to record yourself. The display is bright too, so even outdoors you get good visibility when using the LCD to monitor footage or select settings from the menu. For added ease of use when taking low-angle shots, you also can tilt the viewfinder 70 degrees upward.

Precise Balance

The grip conforms neatly to the hand and is positioned at the camera's center of gravity for perfect balance. This, plus the AG-DVC30's light weight — approximately 2.2 lb (1 kg) — makes it easy to frame shots and shoot without fatigue.



Magnesium Alloy Chassis

Designed for professionals, the AG-DVC30 boasts the same tough magnesium alloy diecast chassis as our DVCPRO broadcast models. This rigid casing protects the high-precision components from bumps and jolts, helps shield out interference and provides the AG-DVC30 with the reliability and durability needed for active field use.

Automatic Head Cleaning

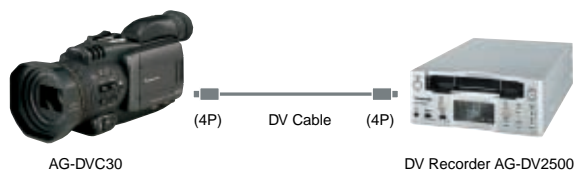
The AG-DVC30 provides the same head cleaning function as our DVCPRO models.

The white roller pad positioned to the right of the head cylinder cleans the head each time you load a tape, helping to minimize dropouts and head clogging.



IEEE 1394 Terminal with Synchro Lock

An IEEE 1394-compliant 4-pin DV terminal makes it easy to upload data from the AG-DVC30, or to dub footage onto a DV recorder. This terminal also features a new synchro lock function that lets you use the AG-DVC30 to remotely start and stop an external DV device. Three recording modes help protect against mistakes: record onto external recorder only, record onto both AG-DVC30 and external recorder, begin external recording when the AG-DVC30 tape ends.



More Features for Professionals

- Built-in SMPTE time code generator/reader
- Built-in SMPTE color bars - useful for setup
- Shutter: Maximum speed of 1/8,000 sec. When the AG-DVC30 is recording a computer display, a synchro scan function matches the shutter speed to the monitor to minimize flicker.
- A second Start/Stop button positioned toward the top front for easy access
- Index: Insert index points as you shoot - convenient when searching later (can be assigned to a user button)
- User File: Save sets of camera settings for instant recall
- Line recording: S-Video In/Out, AV In/Out and mic input terminals provided

A C C E S S O R I E S

•Included



AG-YRL30G IR light



AG-MYA30G
XLR microphone adapter



AG-MC100G XLR microphone



AG-MC15P microphone jack



AG-LW4307P
Wide conversion lens



Battery Pack

Model No.	Capacity	Operating time with EVF
CGR-D16A/1B	1600m Ah	120 min.*
CGP-D28A/1B	2700m Ah	180 min.*
CGA-D54SE/1B	5400m Ah	420 min.*

*approximate



AG-SC100G Soft carry case



AG-B15 AC adapter kit



AG-HT30G Hard carry case



AY-DVM63PQ
Professional Series Tape

AY-DVM63MQ
Master Series Tape

AY-DVMCLC
Cleaning tape



IEEE 1394 Interface cable



BT-LS1400 14" SD LCD Monitor

A Logical, Intuitive Layout





AG-DVC30 Specifications

[GENERAL]

Supply Voltage:	DC 7.2/7.9 V
Power Consumption:	5.0 W (when viewfinder is used) 6.1 W (when LCD monitor is used) 8.5 W (max.)
Operating Temperature:	32°F to +104°F (0°C to +40°C)
Operating Humidity:	10% to 85% (no condensation)
Weight:	2.315 lb (Approx. 1.05 kg) 2.646 lb (Approx. 1.20 kg) with battery and cassette
Dimensions (WxHxD):	4-3/8" x 4-5/8" (6-5/16" with handle) x 10" 110 x 116 (160 with handle) x 253 mm

[CAMERA]

Pick-up Device:	1/4-inch interline transfer type CCD x 3
Picture Elements:	Total: 410,000 pixels Effective: 380,000 pixels (horizontal pixel shift system)
Lens:	Leica DICOMAR lens with optical image stabilizer, motorized/manual mode switching, 16x zoom F 1.6 (f = 4.1 to 65.6 mm) (35 mm equivalent: 39.5 to 632 mm)
Filter Diameter:	43 mm
Optical Color Separation:	Prism system
ND Filter:	Auto On/Off by IRIS
Gain Selection:	0, +3, +6, +9, +12, +15, +18 dB
Shutter Speeds:	1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro Scan Shutter Speeds:	1/60.3 to 1/250.0 sec.
Slow Shutter Speeds:	1/4, 1/8, 1/15, 1/30 sec.
Minimum Luminance:	4 lux (F 1.6, 18 dB gain, 50 IRE video output)

[VTR]

Recording Format:	DV (Digital Video SD)
Tape Used:	6.35 mm wide metal tape (mini DV cassette)
Recorded Video Signals:	525/60i (NTSC)
Recorded Audio Signals:	PCM digital recording 16 bits: 48 kHz/2 channels, 12 bits: 32 kHz/4 channels
Recording Tracks:	Digital video, audio signals: helical track Time code: helical track (sub-code area)
Tape Speed:	SP mode: 18.812 mm/sec., LP mode: 12.555 mm/sec.
Recording Time:	SP mode: 60 minutes, LP mode: 90 minutes (when AY-DVM60 is used)
FF/Rew Time:	Approx. 140 sec. (when AY-DVM60 is used)

[AUDIO]

Sampling Frequency:	48 kHz/32 kHz
Quantizing:	16 bits/12 bits
Frequency Characteristics:	20 Hz to 20 kHz
Wow & Flutter:	Below measurable limits

[VIDEO]

Sampling Frequencies:	Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing:	8 bits
Video Compression System:	DCT + variable length code
Error Correction:	Reed-Solomon product code

[CONNECTORS]

VIDEO IN/OUT:	AV Multi x 1, (input/output automatically switched) analog composite input/output, 1.0 Vp-p, 75Ω
S-VIDEO IN/OUT:	4pin x 1, (input/output automatically switched) Y: 1.0 Vp-p, C: 0.286 Vp-p, 75Ω
AUDIO IN/OUT:	AV Multi x 1 (CH1, CH2) (input/output automatically switched) Input: -10 dBv, high impedance Output: -10 dBv, low impedance
DV:	4-pin, IEEE 1394 standard, digital input/output
Internal Microphone:	Stereo microphone
Outside Microphone:	Stereo Mini jack (3.5 mm diameter), -70 dBv
PHONES:	Stereo Mini jack (3.5 mm diameter)
XLR Adapter:	exclusive 8-pin terminal for AG-MYA30G
CAM REMOTE:	Mini jack (2.5 mm diameter)
DC INPUT:	2P x 1, 7.9 V

[EQUIPMENTS]

LCD Monitor:	3.5-inch LCD color monitor, 200,000 pixels
Viewfinder:	0.44-inch LCD colour viewfinder, 180,000 pixels
Internal Speaker:	20mm round shape, volume - or +

*The specifications given above were measured by playing back tapes recorded by the AG-DVC30 on standard VTRs.
Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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