The Digital Camcorder for all Seasons

ZR80

ZR85

ZR90

www.canondv.com
Whether spending a summer day at the beach, viewing the beauty of the crisp fall foliage, or celebrating the joy and warmth of the holiday season, Canon's new ZR series camcorders allow you to make time stand still. Smooth and compact, they immediately conform to the contour of your hand, allowing memories to be effortlessly captured anytime, anyplace. Offering exceptional value, easy operation, and outstanding performance, Canon's ZR series camcorders can turn even every day occasions into milestones you can cherish forever.

DIGIC DV
DIGIC DV is a system for achieving superior video and photographic images. Canon's expertise in imaging and electronics is flawlessly blended together, resulting in outstanding performance. It offers substantial benefits in color reproduction. DIGIC DV makes it possible to achieve accurate color for both video and digital photos. Since video and photos have different color requirements, DIGIC DV utilizes two different color techniques to maximize video quality on a TV and still image quality for print or computer display.

VIC
Embracing the industry's latest and most sophisticated technology, Canon camcorders feature an exclusive connection circuit, called VIC. VIC is a virtual powerhouse. Traditionally, multiple chips were needed to perform the camcorder's input and output functions. However VIC manages it all with one single chip. The result is seamless connectivity whether you are connecting to a computer, TV, or VCR.

Genuine Canon Optics:
- 22x Optical Zoom Lens (ZR90)
- 20x Optical Zoom Lens (ZR85)
- 18x Optical Zoom Lens (ZR80)

What sets a Canon camcorder apart from all the others? It's the only camcorder made by a company renowned for high-quality professional optics. Our vast expertise in designing and crafting precision lenses for 35mm and broadcast TV cameras also goes into every camcorder lens we make. The ZR90, ZR85 and ZR80's optical zoom lens delivers superb definition and contrast, taking full advantage of the DV format. The digital zoom extends the camcorder’s magnification revealing details too small to see with the naked eye. With the ZR90, you can attach the supplied WA-30.5 Wide Attachment (0.6x), giving you a wide perspective for indoor shots or panoramic views.

Image Stabilizer
A high quality image stabilization system corrects camcorder shake instantly, so your videos always look smooth, steady and natural even when shooting hand-held at full telephoto.

Celebrate Life...
Night Mode
In the Night mode, the camcorder selects the ideal shutter speed and sensitivity combination to brighten up the scene, without sacrificing color. The Night mode can be easily activated by one press of the NIGHT MODE button. With the ZR90, you can also assign the Super Night or Night Plus mode to the NIGHT MODE button. In the Super Night mode, the assist lamp lights up automatically responding to the brightness of the subject. In the Night Plus mode, the assist lamp stays on at all times.

Skin Detail Function
When shooting close-ups of people, the camcorder automatically softens details to reduce the appearance of skin imperfections for a more complimentary appearance.

Manual Controls
The fully-automatic ZR90, ZR85, and ZR80 give great results in the hands of beginner, while more experienced users will appreciate the manual focus, exposure level, white balance, and shutter speed controls.

Program Auto Exposure
While the Easy Recording mode is fine for most shooting situations, the camcorder also includes additional pre-programmed auto exposure modes (Auto, Sports, Portrait, Spotlight, Sand & Snow and Low Light mode), each carefully designed to give you the best possible image results under special shooting conditions.

IEEE1394 DV Terminal
An IEEE1394-compliant DV terminal lets you connect the ZR90, ZR85 or ZR80 to a DV-compatible computer or another Canon DV camcorder. Transfer your digital movies to your computer’s hard disk, edit your scenes, then use them to create high-impact Web sites, video e-mail, interactive CDs and DVDs, or a personal video album.

DV Messenger2
The ZR90 and ZR85 are supplied with DV Messenger2 software (available as an optional download for the ZR80), allowing you to use your Canon camcorder for Internet Video Chat with Microsoft Windows Messenger through IEEE1394. Control the zoom and focus of your camcorder or the person you are chatting with. Preview thumbnails and transfer photos. Watch and control the video playback of either camcorder - all from your computer.

USB Terminal (ZR90 and ZR85 only)
Allows high-speed transfer of images from your SD Memory Card or MultiMediaCard to your computer. By using the USB cable and software provided, you can process and organize your images on your PC.

Included Software
The ZR90 and ZR85 Kit includes software for image management and editing: ZoomBrowser EX (Windows) and ImageBrowser (Macintosh) which let you easily download, browse, archive, and retouch your photos. Automatically resize images and attach them to e-mail, arrange them for printing, and add text.

Analog Line-In/Converter
You can send an analog video signal from a TV, VCR or a camcorder into the ZR90, ZR85 or ZR80 and record it onto a DV tape, or convert the analog signal into digital signal, for direct transfer to digital video devices or computers equipped with a IEEE1394 terminal.

*The Analog to Digital Converter may not function depending on the software used.

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Picture Transfer Protocol (PTP) (ZR90 and ZR85 Only)
The ZR90 and ZR85 support Picture Transfer Protocol (PTP) that enables data communication with a computer without the need to install dedicated driver software. This direct link enables the computer to access the camcorder as though it was an external card reader. This feature is available only with computers running Windows XP or Mac OS X (version 10.1 or later) operating system.
Digital Effects

Show your creativity by using the special effects and digital faders available with the ZR90, ZR85 and ZR80. A wide selection of faders and special effects will add visual appeal and greater imaging variety.

Faders

Add a variety of transitions to your movies with a fade to or from black. Choose from Fade Trigger, Wipe, Corner, Jump, Flip, Puzzle, Zigzag, Beam and Tide.

Special Effects

For a more creative look, you can switch on the following digital effects during recording or playback: Art, Black & White, Sepia, Mosaic, Ball, Cube, Wave, Color Mask or Mirror.

In Card mode: Only black and white is available.

SD Memory Card and MultiMediaCard

The ZR90 and ZR85 expand video possibilities with a built-in slot for an SD (Secure Digital) Memory Card or a MultiMediaCard, in addition to a MiniDV cassette. Easily transfer images to your PC directly from the camcorder using USB and IEEE1394. Produce effects not possible with just a cassette using the Card Mix Effects. Choose one of the sample images provided on the supplied SD Memory Card (such as picture frames, backgrounds and animations) and combine it with the live video recording.

Motion JPEG

The ZR90 and ZR85 allow you to record movie clips in Motion JPEG format onto the memory card, for clear images and smooth playback. You may choose to record in 320 x 240 pixels or 160 x 120 pixels. Best of all, you can record for the full length of the SD Memory Card*. If you like, you can even copy video from the MiniDV tape to the card, making it easy to attach a mini-movie to an e-mail or post on the web.

StitchAssist

By using the StitchAssist Mode, you can create magnificent panoramas. Shoot your landscape, and transfer them to your computer. Then simply select and arrange your images in the correct order, and the supplied PhotoStitch software does the rest, aligning, overlapping and cropping the separate images to form one ultra-wide panoramic still image.

XGA High Resolution Photos

The ZR90 and ZR85 capture beautiful high definition photos. Just press the photo button to capture stunning XGA (1024 x 768 pixel) images onto the included 8 MB SD Memory Card. For added flexibility, you can select the compression size (Superfine/Fine/Normal). You can select how long you wish to review a still image after recording.

Motion JPEG

Video Mode

The ZR90, ZR85 and ZR80 utilize high-precision optics, a premium image stabilization system, and the latest processing technology to deliver outstanding video in all situations.

Digital Photo Mode

For added flexibility, you may take up to 700 still images on a MiniDV single tape (in SP Mode). The camcorder records the photos for approximately 6 seconds, as well as recording the sound for your verbal notes or narration.

PCM Digital Sound

The ZR90, ZR85 and ZR80 offer two digital audio modes, 12 and 16-bit. You can select 16-bit mode for high-quality, CD-equivalent stereo sound, or 12-bit to record only two of four channels, leaving two channels free for you to record additional sound later.

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Lithium Ion Battery
S-Video Input/Output (ZR90)
Remote Control Included (ZR90/ZR85)
AV Insert and Audio Dubbing (ZR90/ZR85)
Built-in Speaker
Superb Playback Function
16:9 Wide Screen Mode
Self-Timer
Photo Search/Date Search (ZR90/ZR85)
Time Code/Data Code
Record Search & Review
Confirmation Beep
Zero Set Memory (ZR90/ZR85)
World Clock

Pictures simulated

Selectable Focusing Points
Sometimes, the subject we want to photograph is not in the center of the frame. Choose from one of three focusing points to automatically put the subject you want into sharp focus.

Simultaneous Photo Recording
While recording video, the ZR90 and ZR85 are able to simultaneously capture VGA quality (640 x 480 pixels) digital photos onto a memory card. This is perfect for those who want to capture e-mail ready photos, without interruption.

Direct Print Choices
The camcorder offers flexible connectivity with a variety of printers. Connect your camcorder to a PictBridge compliant Canon Card Photo Printer or Canon Bubble Jet Printer. A single cable connects the printer to the ZR90 or ZR85 and all printing options can be controlled from the camcorder’s menu. Choose from a range of different paper sizes with options for borderless or bordered prints. The ZR90 and ZR85 can also connect to any PictBridge compliant printer.

Exif Print
The ZR90 and ZR85 support Exif Print (2.2), a worldwide standard that enhances communication between digital cameras and printers. At the time of shooting, vital camcorder settings and scene data are recorded with the image, resulting in realistic and reliable color reproduction. Poor lighting or mistakes can also be corrected, allowing photos to be even better than the originals.

Flexible LCD View Screen and Color Viewfinder
The bright 2.5” LCD view screen makes it easy to compose sensational shots without having to squint into the viewfinder. You can rotate the screen for high-or low-angle shots, or turn it around 180° to record yourself. When you’re done shooting, the screen is perfect for reviewing your scenes.

End Search
Use this function to locate the end of the last recorded scene. The camcorder fast-forwards the tape, plays back the last few seconds of the recording and stops the tape.

Selectable Display Languages
You can choose from the following languages: English, French, Spanish, German, Italian, Russian, Chinese and Japanese. The date format can also be selected.

My Camera Function
Personalize your camcorder by customizing the start-up image and camcorder operation sounds. With the ZR90 and ZR85, you can choose a start-up image from the included software CD or use your own digital recordings.

Treasure it Always
Specifications

Video Recording System
2 head rotary, helical scanning DV system

Audio Recording System
Built-in stereo electret condenser microphone

Television System
EIA standard (525 lines, 60 fields) NTSC

Video Recording System
1/6-inch CCD, approx. 680,000 pixels

Audio Recording System
PCM digital sound: 16 bit (48 kHz/2ch); 12bit

Television System
30.5 mm Filter Diameter

Audio Recording System
Audio input: -10 dBV/40 kohms or more

Television System
S-video Terminal
1 Vp-p/75 ohms (Y signal), 0.286 VP-p/75 ohms (C signal)

Audio Recording System
Audio output: -10 dBV (47 kohm load)/3 kohms or less

Television System
Video: 1 Vp-p/75 ohms unbalanced

Audio Recording System
Video: 1 Vp-p/75 ohms

Television System
Video Light Battery
Battery Charger CG-580

Audio Recording System
Headphone Terminal ø3.5 mm stereo mini-jack

Television System
AV Terminal

Audio Recording System
Power supply (rated) 110–240 V (50/60 Hz) AC

Television System
CN Camera File system (DCF), Design rule for Camera File system (DCF)

Audio Recording System
Recommended Illumination More than 100 lux

Television System
Video: 1 Vp-p/75 ohms, 0.7 V unbalanced

Audio Recording System
Power consumption Video: 100–120 V (50/60 Hz) AC 110VA

Television System
Power-on time Approx. 2 min. 20 sec. (60 min. cassette)

Audio Recording System
Power consumption Audio: 100–240 V (50/60 Hz) AC 11VA

Television System
Power-saving mode (indoor, outdoor) or custom white balance

Audio Recording System
Still image: JPEG (compression: Superfine/Normal)

Television System
Approx. 0.33-inch TFT color, approx. 113,000 pixels

Audio Recording System
LCD screen

Television System
Videocassettes bearing the “MiniDV” mark

Audio Recording System
Approx. 2 min. 20 sec. (60 min. cassette)

Television System
DV Network Software

Audio Recording System
Approx. 1024 x 768: Superfine 13 images/Fine 20 images

Television System
Zenith to change without notice.

Audio Recording System
Camera to change without notice.

Television System
It is recommended that you use genuine Apple-brand built-in USB interfaces.

Audio Recording System
With genuine Apple-brand built-in USB interfaces.

Television System
For details, consult your Internet service provider, telephone carrier, or refer to the manual of the router.

Audio Recording System
• DIGITAL VIDEO SOLUTION DISK for Macintosh

Television System
• Other Windows Messenger Version 4.5/4.6/4.7

Audio Recording System
• STV-250N Stereo Video Cable

Television System
• DIGITAL VIDEO SOLUTION DISK for Windows (ZR90/ZR85)

Audio Recording System
• IFC-300PCU USB Cable (ZR90/ZR85)

Television System
• BP-508 Battery Pack

Audio Recording System
Lithium Ion Battery Packs BP-535

Television System
Lithium Ion Battery Packs BP-535

Audio Recording System
Leather Soft Carrying Case SC-2000

Television System
Leather Soft Carrying Case SC-2000

Audio Recording System
Powerful 10 W Video Light Battery VL-10Li

Television System
Increases the focal length by 1.9x (TL-30.5) or 1.7x (TL-H30.5).

Audio Recording System
Increases the wide angle coverage by 0.7x.

Television System
Includes neutral density (ND 8) filter and MC protector

Audio Recording System
Includes neutral density (ND 8) filter and MC protector

Television System
Ranges from area to area.

Audio Recording System
Ranges from area to area.

Television System
* Cannot be used to power the camcorder directly.

Audio Recording System
* A 900 series charger is required.

Television System
* A 900 series charger is required.

Audio Recording System
Subject to change without notice.

Television System
Subject to change without notice.

Audio Recording System
Canon and Bubble are registered trademarks of Canon Inc. The SD logo is a trademark.

Television System
Canon and Bubble are registered trademarks of Canon Inc. The SD logo is a trademark.

Audio Recording System
DIGITAL VIDEO SOLUTION DISK for Windows (ZR90/ZR85)

Television System
DIGITAL VIDEO SOLUTION DISK for Macintosh (ZR90/ZR85)

Audio Recording System
Warning: Unauthorized recording of copyrighted materials may infringe on the rights of copyright owners and be contrary to copyright laws.

Television System
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Audio Recording System
Errors and omissions excepted. Weight and dimensions are approximate.

Television System
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Television System
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