



# VIXIA HF100

## High Definition Camcorder

Item Code: 2708B001



## Overview

From Canon's long history of optical excellence, advanced image processing, superb performance and technological innovation in photographic and broadcast television cameras comes the latest in high definition camcorders.

Now, with the light, compact Canon VIXIA HF100, you can have stunning AVCHD (Advanced Video Codec High Definition) format recording with the ease and numerous benefits of Flash Memory. It's used in some of the world's most innovative electronic products such as laptop computers, MP3 players, PDAs and cell phones.

Add to that the VIXIA HF100's Canon Exclusive features such as our own 3.3 Megapixel Full HD CMOS sensor and advanced DIGIC DV II Image Processor, SuperRange Optical Image Stabilization, Instant Auto Focus, our 2.7" Widescreen Multi-Angle Vivid LCD and the Genuine Canon 12x HD video zoom lens and you have a Flash Memory camcorder that's hard to beat and unmistakably Canon.



# Features

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## AVCHD Flash Memory in a Compact Size

The VIXIA HF100 is one of Canon's first AVCHD (Advanced Video Codec High Definition) format Flash Memory camcorders. AVCHD uses an MPEG-4 AVC (H.264) video codec, recording true 1080 High Definition resolution video. An advantage of the AVCHD format is that it captures twice as much video using less storage, which enhances the extended recording time possible with Flash Memory.

AVCHD™



The advantages of Flash Memory go beyond the added recording time. You'll also appreciate the quick response time, because it doesn't have to wait for moving parts. Press the record button and your VIXIA HF100 starts recording video faster than you've ever seen before. In addition, when you review your footage, it will come up more quickly as well.

Another plus is the VIXIA HF100's lower power consumption rate, allowing your battery to last longer. It's just what you need so you don't miss that pivotal play on the field or the moment when they say "I do".

While we certainly hope you keep your VIXIA HF100 securely in your hand while shooting, if it happens to slip, or you accidentally knock it against something, you'll be happy to know that Flash Memory makes your camcorder more shock resistant than other recording storage systems. It also minimizes the chance of data loss due to damage to your recording media or the moving parts in other camcorders.

Making this new technology even more convenient to use is the VIXIA HF100's compact size and light weight. Measuring only 2.9" wide, 2.5" high and 5.1" deep, it combines big video storage capacity in a small, easy to carry body.

1920 x 1080 movie recording requires a Class 4 or higher memory card. For other recording formats, a Class 2 or higher card is recommended. Also, movie recording requires cards with 128 MB of memory or more. Cards made by Toshiba, SanDisk or Matsushita are recommended. No particular restrictions apply for still images.

## Canon Exclusive: 3.3 Megapixel Full HD CMOS Sensor



The VIXIA HF100 captures 1920x1080 High Definition video through its Canon designed and manufactured 1/3.2" 3.3 Megapixel Full HD CMOS image sensor, similar to the CMOS image sensors in Canon's EOS Series Digital SLR cameras.

Compared to a CCD, the VIXIA HF100's CMOS's high color resolution and advanced color reproduction gives brilliant results. It is also unique in featuring Canon's proprietary noise reduction technologies for crisp, sharp images. Low noise technology also means that even in dimly lit scenes, the signal from each pixel is as pure as possible, with minimal noise or other aberrations. It's the ideal sensor for HD.

The VIXIA HF100 uses an RGB Primary Color Filter with Bayer Placement Pattern that separates light into red, green and blue color components. This results in vibrant images with deep, rich, accurate color and natural-looking tones similar to what you'd obtain from 3CCD camcorders. In addition, the Bayer Placement Pattern delivers sharp high definition images with true-to-life color reproduction. As an added benefit, the CMOS sensor provides outstanding image capture in low light conditions.



## Full HD Lens-to-Screen (1920 x 1080 Capture and Recording)

The Canon VIXIA HF100 not only captures images in Full HD, but records and outputs at 1920 x 1080\* as well, so you get Full HD from lens to screen. Your memories are preserved in stunning clarity, and ready for playback on your HDTV.

\*A Class 4 or higher SDHC memory card is required.

**FULL HD**



1920 x 1080 movie recording requires a Class 4 or higher memory card. For other recording formats, a Class 2 or higher card is recommended. Also, movie recording requires cards with 128 MB of memory or more. Cards made by Toshiba, SanDisk or Matsushita are recommended. No particular restrictions apply for still images.

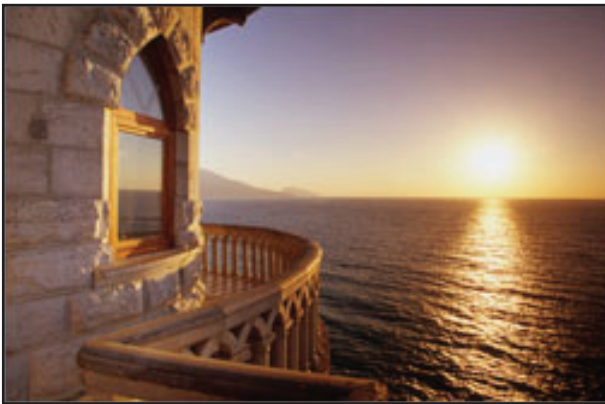
## Genuine Canon 12x HD Video Zoom Lens

For over 70 years Canon has been producing exceptional photographic lenses that are synonymous with unsurpassed optical performance. Because of Genuine Canon Optics, every Canon broadcast lens, 35mm film camera, digital camera and camcorder assures brilliant optical quality -- and the VIXIA HF100 is no exception.



## Genuine Canon Video Lens

The VIXIA HF100 comes with an outstanding High Definition video lens -- a 12x HD Genuine Canon zoom. It's the lens you need to record long shots of your child on the soccer field, wide shots of beautiful landscapes, and everything in-between. And because it comes with four zoom speeds, three pre-set and one variable, you always get smooth, steady, professional looking zoom shots.



Super Spectra Coating technology results in images with minimal flare and ghosting. Plus, the new lens' aspheric design reduces aberration and increases resolution, ensuring crisp, sharp video and enhancing the HD image quality. Not only that, but a new gradation neutral density (ND) system gives you better exposures in bright shooting situations.

In addition, for those times when you need to get a particular shot from a very long distance, this flexible lens also has a 200x digital zoom.

## Canon Exclusive: DIGIC DV II Image Processor



**DIGIC  
DVII**

The Canon DIGIC DV II Image Processor is the next generation of Canon's exclusive DIGIC DV signal processing technology. Designed specifically for HD, DIGIC DV II ensures optimal image quality. It also ensures optimal image quality for still images, even though video and still images have different color requirements. DIGIC DV II is just another one of Canon's advanced technologies that make the VIXIA HF100 an exceptional performer.

Thanks to Canon DIGIC DV II image processing, the VIXIA HF100 produces video with improved color reproduction -- especially in skin tones, and dark and light scenes. It also uses a hybrid noise reduction system that employs two types of noise reduction -- for high definition images that are crystal clear.



Plus, the Canon DIGIC DV II Image Processor features improved continuous shooting of digital photographs with the VIXIA HF100. You can shoot five (3.1 Megapixel) still images per second, and enjoy faster processing of your images to your memory card (1.4x normal card; 2.5x Hi Speed card). It also helps lower power consumption for longer battery life.



## Canon Exclusive: SuperRange Optical Image Stabilization

The high-resolution images of High Definition video demand a steady hand. It's easier to get those clear, steady images with the VIXIA HF100, thanks to Canon's innovative SuperRange Optical Image Stabilization. It combines gyro- and image-sensors to give image stabilization through a wider range of camera motions. Some image stabilization systems correct one type of camera motion or vibration better than another. But Canon's SuperRange OIS corrects for a wide range of camcorder motion: the fast vibration you'd experience while recording from a moving car; the medium-speed motion of hand-held recording; and the slower motion of body sway. No matter what you're recording and how you're recording it, the VIXIA HF100's stabilization design corrects camcorder shake instantly. SuperRange OIS also delivers steady images when shooting at long focal lengths.



In addition, optical stabilization keeps your shot steady without a loss in image quality -- something that can't be said for electronic image stabilization. And image stabilization isn't just for video; you can even use it for taking sharper, clearer digital photographs with your VIXIA HF100. Thanks to Canon's expertise, it's easy to eliminate one of the telltale signs of amateur video and photography.



## Canon Exclusive: Instant AF (Auto Focus)

Another critical objective when shooting in High Definition is achieving a very sharp focus. The VIXIA HF100 camcorder features Canon's revolutionary Instant AF focusing system which offers a dramatic improvement in auto focus speed and accuracy (compared to traditional auto focus systems). The Instant AF feature uses an external sensor, in combination with Canon's auto focus system, to help significantly decrease the time it takes to find focus, even in low light conditions. This system achieves focus instantaneously, reducing focus "hunting." The benefits of Instant AF are especially seen in high brightness and night shooting situations. With Instant AF, it's possible to capture fast, accurate focusing, even when following a moving subject.



## Canon Exclusive: 2.7" Multi-Angle Vivid Widescreen LCD

The 2.7" Multi-Angle Vivid Widescreen LCD on the VIXIA HF100 lets you see more of what your camcorder is recording. Using a hard coat Anti-Reflection surface and improved color reproduction, the scene in the viewfinder is a more accurate indication of what you're capturing in the camcorder. An added benefit of this **Canon Exclusive** is the wider range of viewing angle possible with this new LCD screen. With less glare and deeper contrasts, groups of people can gather around it and see the image displayed more clearly than ever before.





# Superb Shooting Control

## Variable Zoom Speed Control

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Another sure sign of amateur video is the unsteady zoom shot. But with the VIXIA HF100's zoom control, you simply select one of the four zoom speeds (three pre-set, one variable) for smooth, steady, professional looking zooms.

## Level and Grid Markers

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With the Level Marker feature, it's easy to keep your camera level for more professional looking video. Line up any horizontal lines in your shot -- such as the horizon -- to the marker and you can be sure your camcorder is level.



The VIXIA HF100's Grid Marker feature lets you compose your shot accurately, according to the grid in your viewfinder. You can even choose from two different colors for the grid. This ensures that you see the grid, no matter what the background color of your shot is.

## Program AE Mode

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For the best exposure for various situations, the VIXIA HF100's Program AE mode will automatically adjust the settings to compensate for the conditions and subject. Choose from Portrait, Sports, Night, Snow, Beach, Sunset, Spotlight and Fireworks. You won't have to guess if you're capturing all the action just the way you want it, the VIXIA HF100 will do it for you.



## Quick Start

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Never miss a quickly unfolding shot again. Push the Quick Start button between shots -it places the VIXIA HF100 in standby mode. When the action starts, push the Quick Start button again to begin recording in less than one second. You'll also help extend your battery life over leaving the camcorder in regular recording mode.

## Low Light Performance

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Some of the most magical shots are taken at the end of the day or long after the sun has set. You won't miss any of them, thanks to the VIXIA HF100's mini video light. The light lets you shoot subjects in color in low light up to 4.9 feet away. So, whether it's a shot of a sleeping baby, or a dramatic skyline at night, the VIXIA HF100 captures all the moments you want to record.



## Manual Audio Level Control

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To make your videos sound as good as they look, the VIXIA HF100 offers a built-in audio meter and manual audio level adjustment. You'll be able to tell at a glance if the sound you're hearing is being recorded the way you want it and a simple control allows you to change the audio level if it's not.

## DVD Burner Compatible

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You can also easily burn DVDs of the video shot with your VIXIA HF100 as it is compatible with Canon's new DW-100 DVD Burner. A one cable connection is all it takes to send the files across and with the click of a few buttons, your videos will be burned to an AVCHD disc for play in a compatible DVD player.

## 24p Cinema Mode

24p Cinema Mode enables all aspiring moviemakers to achieve a professional “film-look.” You can change the camcorder’s frame capture rate to 24p (recorded at 60i), which provides the appearance of the same frame rate as movie film. In addition, you can use the VIXIA HF100’s CINEMA setting, which changes the color and tonal characteristics, evoking the look and feel of a movie shown in a theater. For added flexibility, these settings can be used together or independently.



Cinema Mode



Normal

## 30p Progressive Mode

This is a unique feature that only Canon offers in the consumer camcorder market. You would otherwise have to look to professional video cameras in order to have this sophisticated tool at your command. In addition to the standard interlaced video frame rate of 60i, you may choose to set the VIXIA HV30 to capture video in 30p which is (30 progressive frames) particularly useful for footage to be used on the Internet. In addition, this setting gives enhanced quality to still images captured after recording. Excellent for action shots and sports.



30p Mode



60i Mode

Simulated Images

## Stunning Digital Photography

The VIXIA HF100 has many advanced photo features which make it a camera that rivals other state-of-the-art digital cameras. You get the best of both video and photos.

### 3.1 Megapixel Photos

The same Canon exclusive CMOS image sensor that ensures sharp, vivid HD video also gives you brilliant digital photographs. Like the CMOS image sensors in Canon's EOS Series digital SLR cameras, the VIXIA HF100's image sensor results in outstanding digital photographs. It gives an impressive resolution of 3.1 Megapixel for sharp, crisp still images.

**3.1** MEGA  
PIXELS  
STILL IMAGE RECORDING

### Canon DIGIC DV II Image Processor

Canon's exclusive DIGIC DV II Image Processor features improved continuous shooting of digital photographs with the VIXIA HF100. You can shoot 5 (3.1 Megapixel) still images per second, and enjoy faster processing of your images to your memory card (1.4x normal card; 2.5x Hi Speed card).

**DiG!C**  
**DV II**

### Focus Features

Auto Intelligent Auto Focus (AiAF) ensures sharp images and gives creative flexibility. Even when your subject isn't in the center of the frame, the VIXIA HF100's 9 Point AiAF will automatically select from 9 metering frames on the screen to help bring images into sharp focus.

Since it is critical to achieve very sharp focus when shooting in High Definition, the VIXIA HF100 camcorder features Canon's revolutionary and exclusive Instant AF focusing system. It offers a dramatic improvement in auto focus speed and accuracy (compared to traditional auto focus systems). The Instant AF feature uses an external sensor, in combination with Canon's auto focus system, to help significantly decrease the time it takes to find focus, even in low light conditions. This new system achieves focus instantaneously, reducing focus "hunting." The benefits of Instant AF are especially seen in high brightness, and night shooting situations. It's even possible to capture fast, accurate focusing, even when following a moving subject.



And because a properly focused subject is more critical than ever with HD, the VIXIA HF100 also features Focus Assist. This helps in capturing your subject in razor sharp focus. (When you start recording, this assistance is automatically cancelled.)

## Auto Exposure Modes

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Like any good digital still camera, the VIXIA HF100 lets you choose from a range of exposure modes. Auto mode automatically sets the exposure, letting you concentrate on your subject. AV (aperture priority) mode lets you control depth of field by letting you choose the aperture. TV (shutter priority) mode lets you select the shutter speed for sharp, action shots. In P (program) mode, the camcorder adjusts camera settings automatically.

## Program AE Mode

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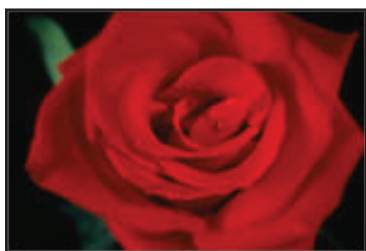
Your life happens everywhere, so the VIXIA HF100 gives you settings that automatically result in the best exposure settings for different conditions and different subjects.



Portrait mode ensures shallow depth of field for a pleasing background to your shots of friends and family. Sports mode stops the action with faster shutter speeds. Night mode is designed to give you great shots after the sun goes down. Snow and Beach modes compensate for bright surroundings and give you the proper exposure on your subject. Sunset mode results in vibrant, well-exposed colors for one of the toughest subjects to capture. Use Spotlight mode when your child is on stage and in the spotlight -- literally -- and you want to make sure the exposure is right for them. And, Fireworks mode records brilliant images of another tough subject: the holiday fireworks display.

## Simultaneous Photo Recording

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With the VIXIA HF100, you can record HD video and capture a 2 Megapixel photo to a memory card -- simultaneously. Simply press the photo button and you've got an e-mail ready digital photo to share with friends and family.

## Histogram Display

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For the advanced digital photographer, the VIXIA HF100 comes with a Histogram Display -- a feature found in Canon's line of digital SLR cameras. The display allows you to see the brightness information of your still images, so you can adjust your exposures as you shoot.



## Level and Grid Markers

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With the Level Marker feature, it's easy to keep your camera level for more professional looking photographs. Line up any horizontal lines in your shot -- such as the horizon -- to the marker and you can be sure your camcorder is level.

The VIXIA HF100's Grid Marker feature lets you compose your shot accurately, according to the grid in your viewfinder. You can even choose from two different colors for the grid. This ensures that you see the grid, no matter what the background color of your shot is.



## Still Capture from Flash Memory

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The versatile VIXIA HF100 even lets you capture a still image from an already recorded movie. While playing the movie in your camcorder, simply press the photo button to capture a 2.07 Megapixel 16:9 still frame onto an SD/SDHC card. It's another way the VIXIA HF100 lets you enjoy and share your precious memories.

## Built-in Flash

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Your VIXIA HF100's built-in flash lets you capture superb photos indoors and in low light conditions. The VIXIA HF100 also features red eye reduction.

**BUILT-IN**  
**FLASH**



## Mini HDMI Terminal and Mini Advanced Accessory Shoe

With the VIXIA HF100, sharing your High Definition video on your HD television is easier than ever. Only a single cable connects your camcorder to your TV for the highest quality playback (video and audio).

Another pro-level feature of the VIXIA HF100 is the Mini Advanced Accessory Shoe on the camcorder. At about half the size of Canon's Advanced Accessory shoe, this feature allows you to attach extras such as a video light or directional stereo microphone without additional wires or batteries. Using the proper accessories can greatly enhance the production values of the video you shoot.



## Share Your Photos

Your VIXIA HF100 comes with features that make it simple to share your still photos.

### Print/Share

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Print/Share turns your VIXIA HF100 into a photo lab in the palm of your hand. Simply connect your camcorder directly to select Canon printers or any PictBridge-compatible printer with the supplied USB cable. Then, with a simple touch of the Print/Share button, print directly from your VIXIA HF100 without going through a computer.



Print/Share also makes it easy to transfer your still images to your computer. Simply connect your VIXIA HF100 and your computer, press the Print/Share button and your photos are downloaded to your computer.

### SD/SDHC Memory Card

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The VIXIA HF100 makes it easy to store digital photos onto the SD/SDHC Memory Card.

### DVD Burner Compatible

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You can also easily burn DVDs of your still photos taken with your VIXIA HF100 as it is compatible with Canon's new DW-100 DVD Burner. A one cable connection is all it takes to send the files across and with the click of a few buttons, your photos are ready to share with all.

## Bundled Pixela ImageMixer Software

The Canon VIXIA HF100 High Definition Camcorder is bundled with a powerful software suite from Pixela ImageMixer™. You can easily perform a variety of functions, including AVCHD Editing in which you can trim, reorder, and combine scenes, as well as add music, titles, and transitions. This software also allows you to play your AVCHD movies on your computer and also will let you share copies of your movie with friends and family through Flash Memory to hard drive copying. Transfer and store your movie onto your computer's hard drive with the software and easily convert your High Definition video to Standard Definition video as well.



This software will also assist you in converting video to the optimum resolution for transmission over the Internet.

\* The bundled application is compatible with Windows XP and Windows Vista

## Additional Features

- The “Intelligent” Lithium-ion battery which powers the VIXIA HF100 is a major, and useful, advance. It not only more accurately tracks remaining battery life, it also gives a display in minutes remaining. It will allow you to better plan your shooting, so you won’t be caught out with a battery that suddenly goes from “half” to “empty”.
- The Built-in Electronic Lens Cover means you never have to go looking for your lens cover again. Turn your camcorder on and the lens cover automatically opens. Turn it off, and the cover closes.
- USB 2.0 Hi-Speed Terminal for digital video streaming and ultra-fast transfer of movies and photos.
- Wireless Remote Control lets you operate your VIXIA HF100 from a distance, so you don’t have to be left out of the picture.
- 1 Year Parts And Labor Limited Warranty provides protection long after other manufacturers’ warranties expire.



# Specifications

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## Digital Video

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Power Consumption	4.0 w (SP mode)
Image Sensor	1/3.2" CMOS Sensor, RGB Primary Color Filter
Total Pixels	Approx. 3.3 Megapixels
Effective Pixels	Movies: Approx. 2.07 Megapixels (1920x1080) Still image: Approx. 2.76 Megapixels (1920x1440)
Maximum recording time	8 GB SDHC CardLP (5 Mbps) 3 hours SP (7 Mbps) 2 hours 20 min XP+ (12 Mbps) 1 hour 25 min FXP (17 Mbps) 1 hour - <b>Allows 1920x1080 Full HD Recording. Greater recording time is possible with a higher capacity SDHC memory card.</b>
Lens	<b>Zoom Ratio</b> 12x Optical/200x Digital <b>Focal Length</b> f=4.8-57mm <b>Zoom Speed</b> Variable/3 Fixed Zoom Speeds <b>Max. F/Stop</b> f/1.8-3.0mm <b>Filter Size</b> 37mm
Focusing System	Instant AF, Through the Lens/Manual Focusing Possible
Manual Exposure	Yes
Programmed AE	Auto, Program, Av, Tv, CINEMA, Portrait, Sports, Night, Snow, Beach, Sunset, Spotlight, Fireworks
Max Shutter Speed	1/2000 1/500 (card)
Auto Date/Time	Yes
Record Search/Review	Yes
Minimum Focusing Distance	10 mm (wide)/1m (tele)
White Balance	Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Auto, Manual
Image Stabilization	SuperRange Optical (lens shift)
LCD Screen	2.7" Multi-Angle Vivid Widescreen LCD (Approx. 211,000 pixels)
Recording Media	SD/SDHC Memory Card (not supplied)
Audio	Dolby Digital 2ch (AC-3 2 ch)
HDMI Terminal	Type C 480i/480p/1080i Format Supported
Microphone Terminal	3.5 mm Stereo Mini-jack

<b>AV Mini Terminal/Headphone Terminal</b>	3.5 mm 4 pole Mini-jack
<b>Dimensions</b>	(WxHxD) 2.9 x 2.5 x 5.1 in (73x64x129mm)
<b>Weight (not including lens and battery pack)</b>	13.4 oz (380g)

Note: 1920 x 1080 movie recording requires a Class 4 or higher memory card. For other recording formats, a Class 2 or higher card is recommended. Also, movie recording requires cards with 128 MB of memory or more. Cards made by Toshiba, SanDisk or Matsushita are recommended. No particular restrictions apply for still images.

## ***Supplies & Accessories***

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**STV-250N Mini Plug to RCA**  
Used to connect to a TV or VCR.

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### **Shoulder Strap SS-600**

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### **SC-A30 Genuine Leather Carrying Case**

Once you finish recording, keep your camcorder and all your accessories in this professional-looking, genuine leather soft carrying case.

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### **SC-A40 Genuine Leather Carrying Case**

Once you finish recording, keep your camcorder and all your accessories in this professional-looking, genuine leather soft carrying case.

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### **CSC-A60 Genuine Leather Carrying Case**

Once you finish recording, keep your camcorder and all your accessories in this professional-looking, genuine leather soft carrying case.

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### **Soft Case SC-A70**





### **Tele Converter TL-H37**

For those times when you're far from the action, but want to capture everything like you're right there, the TL-H37 Tele Converter increases the focal length of your lens by 1.5X.

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### **Canon FS-H37U 37MM Filter Set**

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### **DW-100 DVD Burner and Player**

Key to enjoying the superb video produced by the latest Canon High Definition and Standard Definition camcorders is sharing that video with family and friends. Now, it's easier than ever to transfer and backup footage from your camcorder onto DVDs with the Canon DW-100 DVD Burner.

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### **Battery Charger CG-800**

Charges Li-Ion Battery 800 Series

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### **Battery Pack BP-809(S)**

890mAh Lithium Ion

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### **Battery Pack BP-819**

1780mAh Lithium Ion

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### **Component Cable CTC-100 Cable**



### **HTC-100**

Mini-HDMI Cable: connects Canon HD Camcorder to HDMI compatible TV.

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**Wide Converter WD-H37C**

A 0.7x wider perspective is achieved.



**Directional Stereo Microphone DM-100**

Attaches to Advanced Accessory Shoe for Cable-Free Operation.

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**Can't find the part or accessory you're looking for? Customer Support can help.  
Call 1-800-828-4040 for assistance.**

# ***What's in the Box***

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## **VIXIA HF100 Kit Contents:**

1. VIXIA HF100 Camcorder
2. BP-809 Battery Pack (with Terminal Cover)
3. CA-570 Compact Power Adapter
4. STV-250 N Stereo Video Cable
5. WL-D88 Wireless Controller
6. IFC-400PCU USB Cable
7. CTC-100/S Component Cable
8. Digital Video Solution Disc for Windows and Macintosh
9. Pixela ImageMixer™ 3SE Disc

