Simple controls and powerful features make it easy to shoot high quality video with the Sony® DCR-DVD650 Handycam® camcorder, including a 60x optical zoom lens and Steadyshot™ image stabilization.

- **1/8" Advanced HAD™ CCD Imager:**
  A 1/8" Advanced HAD™ (Hole Accumulation Diode) CCD imager with 410K (effective) pixel resolution delivers stunning detail and clarity for exceptional video and still image performance.

- **60X Optical / 2000X Digital Zoom:**
  Ideal for sporting events, wildlife, or distance shooting, 60X optical zoom brings you closer to the action, so you can capture extremely tight shots, even from far away. In addition, Digital Zoom Interpolation means that extreme digital zooming (up to 2000X) is clearer, with less distortion than previous types of digital zooms.

- **Carl Zeiss® Vario-Tessar® lens with SteadyShot™ image stabilization:**
  The DCR-DVD650 features a professional-quality Carl Zeiss® Vario-Tessar® lens designed specifically for compact camcorders. Precision ground optics help maintain the sharpness and contrast of larger lenses, and SteadyShot™ image stabilization helps reduce blur caused by camera shake.

- **DVD-R/-RW/+RW and +R DL (Dual Layer) Compatible:**
  The DCR-DVD650 is compatible with a variety of DVD formats (DVD-R/-RW/+RW and +R DL (Dual Layer)[6], allowing you to take advantage of the ease-of-use and simplicity found in DVD media. With DVD+RW media, there is no need to finalize the disc (minimum recording required); simply remove and insert the media into a compatible DVD or Blu-ray Disc™ player.

- **Hybrid Recording to DVD or Memory Stick PRO Duo™ media:**
  Hybrid recording technology delivers a new level of flexibility of capturing and transferring your video footage and digital photos from the camcorder to compatible viewing devices. Record to DVD media[6] or choose instead to record to removable Memory Stick PRO Duo™ media (all sold separately). You can even select from various dubbing functions to easily copy video from the Memory Stick PRO Duo™ media to -- without using a PC.

- **2.7" wide touch panel[3] LCD display (123k pixels):**
  The 2.7" wide touch panel[3] LCD display provides exceptional viewing clarity with 123K pixels resolution. The display rotates up to 270 degrees for multiple viewing angles, as well as provides sharp, detailed images for monitoring or playback. The convenient touch panel allows easy access to menus and additional functionality such as spotfocus and spot metering.

- **Power On by opening LCD display:**
  Quickly power on your camcorder by simply opening the LCD display.

- **Built-in zoom microphone:**
  The built-in zoom microphone focuses audio recording on your subjects with the camera's zoom lens, helping memories ring true with clear dialogue and crisp, discrete sounds.

- **Color Viewfinder (123k pixels):**
  The DCR-DVD650 features a 123k pixel resolution color viewfinder that lets you record and then review video and still images.

- **Includes Sony® PMB (Picture Motion Browser) software:**
  Sony Picture Motion Browser software offers a simple, intuitive way to transfer, sort, and view your video and still images on your compatible PC. In addition, multiple output options let you burn your memories to DVD (sold separately), as well as take advantage of one click upload to a number of popular video and photo sharing sites[9].

- **One Touch Disc Burn:**
  Easily burn a DVD copy of your footage using the supplied PMB (Picture Motion Browser) software[9]. Simply connect the camcorder to your compatible PC via a USB cable and press the One Touch Disc Burn Button in the menu.[12]

- **Easy Handycam® Button:**
  Using a camcorder can be intimidating for some people. With a press of the Easy Handycam Button, most of the advanced features of the camcorder are "locked out," letting you focus only the buttons essential for recording.

- **Film Roll Index:**
  Like chapters in a book, Film Roll Index helps you easily find desired scenes in video footage. When using this feature, the camcorder previews the beginning of scenes and can create scene indexes set at specified display intervals (3, 6, or 12 seconds and 1 or 5 minutes).

ADDITIONAL FEATURES

- Face Index function:
- Playback Zoom:
- USB 2.0 interface:

DVD RW

RW DVD+ReWritable

HYBRID Memory Stick movie recording

ZEISS

DOLBY DIGITAL STEREO CREATOR

PMB Picture Motion Browser

2.7" WIDE LCD Monitor

QUICK ON

HI-SPEED USB USB 2.0

InfoLITHIUM™

Specifications

General

Imaging Device: 1/8" Advanced HAD™ CCD sensor

Pixel Gross: 680K

Recording Media: 3" (8cm) DVD (DVD-R/DVD-RW/DVD+RW/DVD+R DL) Memory Stick PRO Duo™ Media (Sold Separately)

Recording and Playback Times: 3" DVD media: Single Layer - HQ: 20 min., SP: 30 min., LP 60 min. Dual Layer - HQ: 35 min., SP: 55 min., LP: 109 min.
When using 16GB Memory Stick PRO Duo™ Media (sold separately): HQ = up to 230 min., SP = up to 340 min., LP = up to 655 min.

Video Actual: 410K pixels (16:9), 340K pixels (4:3)

Still Actual: 250K pixels (16:9), 340K pixels (4:3)

Video Resolution: 720 x 480

Still Picture Resolution: 680K

Audio

Recording Format: Dolby® Digital 2ch stereo

Microphone: Built-in Zoom Microphone

Convenience

Memory Stick PRO™ Media Compatibility: Memory Stick PRO Duo™ Media (Sold Separately)

Still Image Mode(s): JPEG

Hybrid: Yes

Quick On: Yes

Convenience Features

Easy Operation: Yes

Multiple Language Display: Yes

Slide Show Mode: Yes

Scene Mode(s): Auto, Twilight, Candle, Sunrise & Sunset, Fireworks, Landscape, Portrait, Spotlight, Sports, Beach, Snow

Fader Effect(s): Black, White

Face Index: Yes

Film Roll Index: Yes

SteadyShot® Image Stabilization: SteadyShot™ image stabilization

Video

Format: SD (MPEG2)

Video Signal: NTSC color, EIA standards

Inputs and Outputs

Analog Audio/Video Output(s): Included (via A/V Remote Terminal)

USB Port(s): Hi-speed (2.0 compliant)

S-Video Output(s): Sold separately (via A/V Remote jack)

Audio/Video Remote Terminal: Video / S Video / Audio

Display

LCD Screen: 2.7″ wide touch panel[3] LCD display (123k pixels)

Hardware

Viewfinder: Yes (color 123k)

Memory Stick slot: Memory Stick PRO Duo™ Media[1]

Manual / Auto Lens Cover: Manual

S/S & Zoom button on LCD: Yes

Optics/Lens

35mm Equivalent: 39-2340mm (16:9), 44-2640mm (4:3)

Aperture: F1.8-6.0

Exposure: Yes (Touch Panel)

Filter Diameter: 30mm

Focal Distance: 1.8 - 108mm

Focus: Full range Auto / Manual (Touch Panel)

Shutter Speed: Auto, 1/4 - 1/4000

Optical Zoom: 60x

Digital Zoom: 2000x

Resolution: 680K

Lens Type: Carl Zeiss® Vario-Tessar®

Minimum Illumination: 6 lux (Auto Slow Shutter On, 1/30 Shutter Speed)

Power

Power Consumption: 2.2W / 2.4W (VF/LCD)

Battery Type: InfoLITHIUM® with AccuPower™ Meter System (NP-FH30)

Power Requirements: 7.2V (battery pack); 8.4V (AC Adaptor)

Service and Warranty Information

Limited Warranty Term: Limited Warranty --- 1 Year Parts; 90 Days Labor

Software

Supplied Software: PMB Ver.4.2.00 9. Supports Windows 2000 Professional Service Pack4 (SP4), Windows XP Service Pack3 (SP3) (32bit)
Windows Vista Service Pack1 (SP1) (32bit/64bit). Not supported by Mac OS

Dimensions

Weight: w/o battery: 13oz (390g) w battery: 15oz (440g)

Measurements: 2 1/4 x 3 5/8 x 5 1/8 inch (55 x 89 x 130mm)

Supplied Accessories

AC Adaptor (AC-L200)

Rechargeable Battery Pack (NP-FH30)

A/V Connecting Cable

Application Software / USB Driver / (CD-ROM)

USB Cable

Optional Accessories

Rechargeable InfoLITHIUM Batteries (NP-FH50/FH70/FH100)

Case (LCS-BBDB/R/L)

Starter Kit (ACC-ASH6)

AC Adaptor/Charger for H series batteries (AC-VQH10)

Travel Charger (BC-TRP)

Wide Angle Conversion Lens (VCL-HGE07A)

Tripod (VCT-80AV)

Video Light (HVL-10NH)

Underwater Sports Pack (SPK-HCE)

GPS Unit (GPS-CS3KA)

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