DVD: A BRIEF HISTORY

The DVD format was introduced in 1996. Today, DVD is accepted worldwide, in use for a broad range of applications — and its next major impact will be felt in the home video recording market.

The development of DVD started 12 years ago. Inspired by the success of the CD (Digital Audio Compact Disc) format for music and data recording, manufacturers began working toward the goal of a new disc format that would hold two or more hours of high-quality video recording.

In 1994, two standards were proposed: "MMCD," from Sony and Philips, and "SD," from Toshiba and Pioneer. At the end of 1995, an agreement was reached on a common standard. At this point the DVD Consortium was formed and DVD was ready for marketing. Its first applications were for prerecorded movies and computer software (DVD-ROM). Recording standards soon followed; the DVD-R Book and DVD-RAM Book standards were defined in 1997.

In 1999, the DVD-RW Book defined a 4.7 GB rewritable disc format using a short-wavelength red semiconductor laser. Currently, standardization efforts are underway to define a next-generation optical disc system using blue laser technology.

1996	DVD-Video
1997	DVD-R/DVD-RAM/DVD+RW
1998	
1999	DVD-RW
2000	
2001	
2002	DVD+R
	Next-generation optical disc

DVD-R

DVD-RW

DCR-DVD100

DCR-DVD200

DCR-DVD300

DCR-DVD100	DCR-DVD200	DCR-DVD300
30mm Carl Zeiss® Lens	30mm Carl Zeiss® Lens	30mm Carl Zeiss® Lens
Analog Inputs	Analog Inputs	Analog Inputs
USB 2.0	USB 2.0	USB 2.0
Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe
Super SteadyShot	Super SteadyShot	Super SteadyShot
Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter	Super NightShot & Color Slow Shutter
2.5" LCD/CVF	2.5" LCD/CFV	3.5" LCD/CVF
Up to 500 Lines of Horizontal Resolution	Up to 520 Lines of Horizontal Resolution	Up to 520 Lines of Horizontal Resolution
640 x 480	1152 x 864	1152 x 864
680K Pixels	1070K Pixels	1070K Pixels

DCR-DVD100

DCR-DVD200

DCR-DVD300

DCR-DVD100	DCR-DVD200	DCR-DVD300
30mm Carl Zeiss® Lens	30mm Carl Zeiss® Lens	30mm Carl Zeiss® Lens
Analog Inputs	Analog Inputs	Analog Inputs
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Intelligent Accessory Shoe	Intelligent Accessory Shoe	Intelligent Accessory Shoe
Super SteadyShot	Super SteadyShot	Super SteadyShot
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Top 5 Things to Know About DVD Handycam® Camcorders

- ◆ Up to 520 Lines of Resolution (Depending upon recording mode)
- ◆ Records directly to 3" DVD-R/RW Media
- ◆ Plays back in most DVD Players and Computers
- ◆ Captures Video and Stills on one disc
- ◆ USB 2.0 Interface

Three Record Modes

Record Mode	Length of recording time (Duration)	Feature
HQ	Approximately 20 minutes for single-side/ 20 minutes x 2 for double side	High image quality
SP	Approximately 30 minutes for single-side/ 30 minutes x 2 for double side	Standard image quality
LP	Approximately 60 minutes for single-side/ 60 minutes x 2 for double side	Longer recording time

The above mentioned record time is a reference value. Recording time may change depending on the recording situation.

Top 5 Things to Know About DVD Handycam® Camcorders

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TABLE OF CONTENTS

HANDYCAM™

Do Video on Disc

SHOOT

PLAY

SHARE

CAMCORDERS: AN INTRODUCTION

Sony led the way in video camcorders. The first consumer cassette camcorder was developed by Sony. In 1985, Sony's compact, lightweight 8mm Handycam® Camcorders expanded the world of home video by making memories easy to shoot, play, and share anytime, anywhere.

Sony also led the way in digital audio and video recording technologies. Sony® CD and MD recording raised the standard of excellence in music reproduction. And Sony MiniDV Handycam camcorder models adopted digital video for high-quality recording and multi-generation editing.

Now, Sony takes the next step in digital video: DVD Handycam® Camcorders. They use DVD discs as their digital recording medium — so movies can be shot on disc, stored on disc, edited in the camcorder, even uploaded to a PC for creative editing and easy sharing.

DVD offers significant advantages over cassette tape. Discs allow instant access and rapid scene search without fast-forward or rewind. They record video, audio, and even still images. They're more compact and durable as a storage and playback medium.

Best of all, DVD recordings can be played back on most PCs, DVD players, even PlayStation® 2 video game consoles — allowing for compatibility with over 100 million playback devices around the globe.

Sony DVD Handycam camcorders are new and exciting. This handbook explains basic DVD technology, highlights DVD Handycam camcorder features, answers common questions, and helps you understand and appreciate the exciting possibilities of this next step in camcorder evolution.

NOTE ON DVD PLAYER AND PC PLAYBACK

DVD-R/RW discs recorded by Sony DVD Handycam camcorders are designed to be compatible with and may be played back on most home DVD players, computer DVD drives, and PlayStation® 2 video game consoles sold in the U.S.*

* Playback on all home DVD players, computer DVD drives, and PlayStation 2 consoles cannot be guaranteed. Some players, drives, and video game consoles lack the ability to read due to the optical reflection standards of DVD-R/RW discs and/or due to encoding incompatibilities. Refer to the specifications of your playback equipment for additional compatibility information.

THE CONCEPT

Compatibility with DVD Players

DVD-R and DVD-RW discs recorded by DVD Handycam® camcorders in the DVD-Video application can be easily played back on most existing DVD players – making DVD-Video discs compatible with most decks, computers and PlayStation® 2 consoles worldwide.

Editing with a PC

Data recorded on DVD Handycam® Camcorders can be easily played back and edited on a PC. Video can be transferred from camcorder to PC by inserting the DVD-R or DVD-RW disc into the disc drive of a PC, or by connecting the camcorder to the PC via USB. USB 2.0 provides high-speed data transfer. Both DVD-Video and DVD-VR discs can be edited.

High-Density, High-Quality Data

By adopting MPEG2 and VBR (Variable Bit Rate) data compression, DVD recording maintains superb picture quality while permitting high-capacity recording on the disc.

Fast Search & Access

DVD offers many advantages over videocassette tape systems, including fast search and access to scenes by selecting thumbnail images. DVD Handycam camcorders automatically create thumbnail images during the finalization process; these images can be used for instant access to the scene you want. Thumbnail images are viewable whether you use your Handycam camcorder to playback or play back scenes on your DVD player or PC computer.

Movies and Still Images

With DVD, a single media can record both movies and still images. Still images are recorded on the disc as JPEG files. DVD Handycam camcorders allow you to play an automatic, continuous “slide show” of your still images on your TV screen. Both movies and still images can be recorded on the same DVD-R or DVD-RW disc.

High Fidelity Audio

By using Dolby® AC-3® (2-channel) audio recording, DVD Handycam camcorders provide high-quality stereo sound for lifelike realism.

ABOUT EACH APPLICATION STANDARD

DVD-Video

DVD-Video was first developed for commercial DVD movies. DVD-Video creates recordings that cannot be edited in the camcorder. It allows up to 2 hours of moving images and sound on a dual-sided 3" disc. MPEG2 coding is used for video; Dolby® AC-3® coding is used for sound. DVD-Video recordings can be played back on most DVD players.

DVD-VR

DVD-VR modified the concept of DVD-Video, allowing user-friendly editing functions for consumer recording. DVD-VR recordings can be played back on a limited number of DVD players that support the DVD-VR application standard.

How physical standards compare to application standards

<table>
<tr><td>Physical standard</td><td colspan="2">DVD-R</td><td colspan="2">DVD-RW</td></tr>
<tr><td>Application standard</td><td colspan="3">DVD-Video</td><td>DVD-VR</td></tr>
<tr><td rowspan="2">Feature</td><td colspan="2">Although DVD-R can only be written once, it can be played back on many models of DVD players.</td><td colspan="2">DVD-RW is rewritable for further recording and can be initialized for re-use, even after finalizing. However, not all models of DVD players can play DVD-RW.</td></tr>
<tr><td colspan="3">DVDs recorded in the DVD-Video standard can be played back on many models of DVD players.</td><td>DVD recorded in the DVD-VR standard can be edited within the camcorder.</td></tr>
</table>

: Can be played back on a DVD player.

DVD ADVANTAGES

DVD is more compact

Because DVD discs are more compact than videocassettes, they take up less space inside the camcorder and are easier to carry, shelve and archive.

DVD provides random access

Videotapes must be wound and rewound on their reels, which takes time and creates wear. DVD discs never require rewinding – and the search process is virtually instantaneous.

DVD is more durable

Videocassette recording requires contact between the videotape and recording head. In the DVD system, the optical laser pickup does not touch the disc itself, so there is far less wear during recording and playback.

DVD recordings can't be erased

Videotapes can be erased within a VCR or by exposure to strong magnets. With DVD, there is no danger that contents may be accidentally erased.

ABOUT THUMBNAIL DISPLAY

DVD Handycam® Camcorder recorded screens are capable of displaying recorded contents in the form of thumbnail images – six images per screen. Thumbnails can show both movies scenes and still images. These thumbnail images are automatically created when you finalize your disc. Unlike systems that only identify movies or images by time and date, thumbnail images are more useful because they give you a visual record of what each scene or still image shows.

Before finalizing, you can always use your DVD Handycam camcorder as your playback device using the LCD screen or by connecting the supplied AV cable to your TV. After finalizing a recorded disc, you can view dated thumbnails on your TV screen using a standard DVD player, or on your PC computer screen. You can also display the title of your finalized DVD recording.

Thumbnails on DVD Handycam® Camcorder

Thumbnails on DVD Players

RECOMMENDED DVD MEDIA

For use in DVD Handycam camcorders, Sony recommends "DMR30" 8cm (3-1/8") DVD-R discs or "DMW30" DVD-RW discs.

Sony "DMR60DS" and "DMW60DS" 8cm (3-1/8") double-sided discs may also be used.

Sony 8cm (3-1/8") DVD-R

Sony 8cm (3-1/8") DVD-RW

WORKING WITH DVD MEDIA

ABOUT INITIALIZING AND FINALIZING

"Initializing" means preparing a disc for recording. DVD-R discs do not require initializing. DVD-RW discs must be initialized, and this is done inside the DVD Handycam® Camcorder. Each time you insert a new or uninitialized DVD-RW disc, you will see a prompt that asks if you wish to initialize your disc. Initializing erases all previously recorded information. If your disc has already been initialized and partially recorded, it does not require initializing for subsequent recording sessions. "Finalizing" DVD-R and DVD-RW discs means preparing them for playback. In order to play back your recordings on DVD players or computers with DVD-ROM drives, you need to finalize your disc. But even without finalizing, you can always view the contents of your recording using the DVD Handycam camcorder as your playback device – viewing scenes on your camcorder's screen, or on your TV screen by connecting direct A/V output on your camcorder to video audio inputs on your TV.

Once a DVD-R disc has been finalized, no further recording is possible. DVD-RW discs, however, can be "unfinalized" and initialized again for further recording.

Transferring Recordings to a PC

There are two ways to use your PC to view and edit DVD Handycam camcorder movies and still images. After you finalize your DVD-R or DVD-RW disc, you can insert the disc directly into the DVD drive of a PC for editing and playback.

If your disc is not finalized, you must use the supplied Pixela ImageMixer™ software whether you insert the disc into your PC's DVD drive or transmit data between a DVD Handycam camcorder and a PC via USB2 connector.

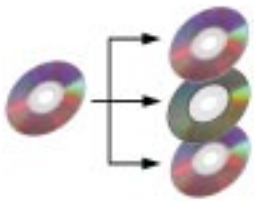
Once recordings have been transferred to your PC, you can perform creative movie editing and also duplicate your discs.

Creating an Original DVD

After recorded images have been transferred to a PC, they can be edited using supplied Pixela ImageMixer software (vers. 1.5 for Sony). You can then create a new original DVD containing your edited recording.

Duplicating a DVD

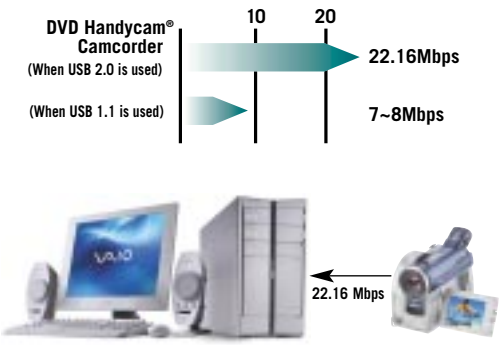
Connecting a DVD Handycam camcorder to a PC allows you to create a new DVD disc even if your PC has no DVD burner.



High-Speed USB Transmission

DVD Handycam camcorders adopt USB 2.0 as a connection interface. At the maximum transmission rate of 22.16 Mbps*, you can transfer a large amount of data quickly and smoothly.

*Your PC must also support USB 2.0 (high-speed USB) in order to transfer at a rate of 22.16 Mbps. Maximum transmission speed will vary depending on the PC model you are using.

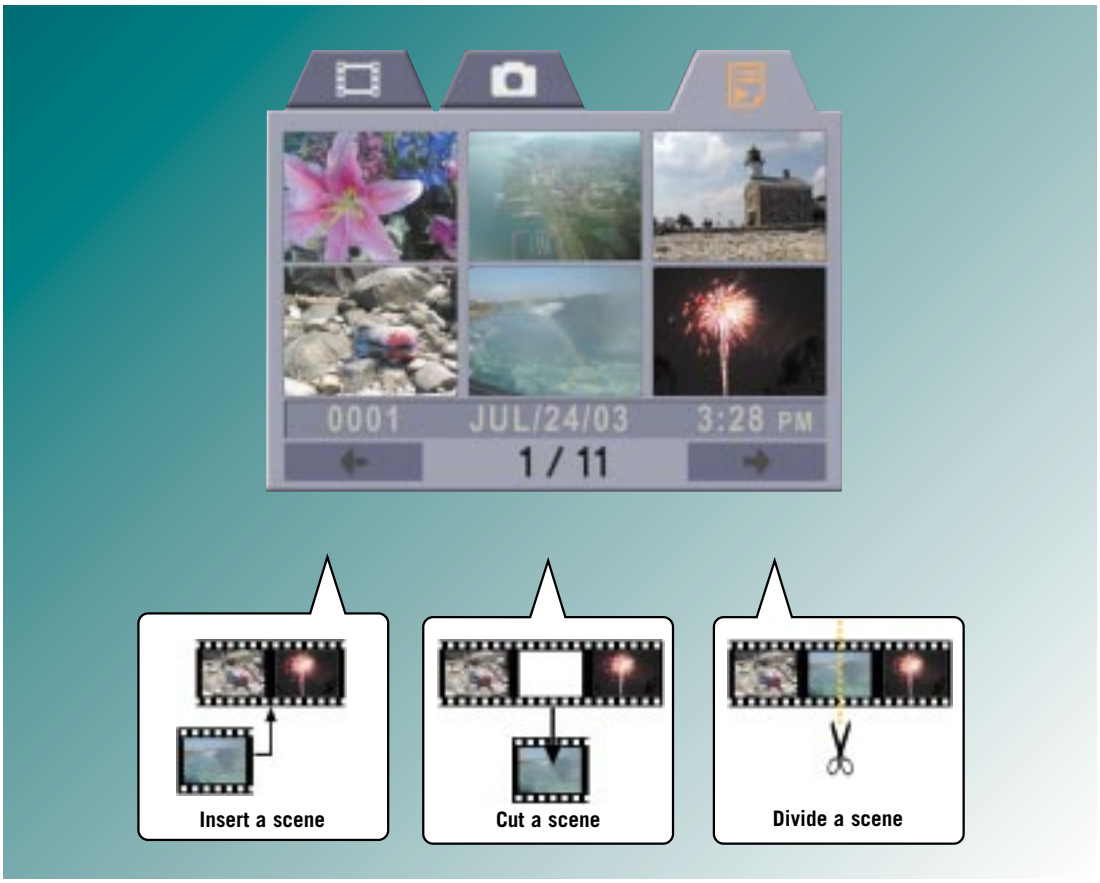


DVD HANDYCAM® CAMCORDER EDITING

DVD Handycam camcorder recordings provide simple in-camera editing functions that help you organize your scenes and still images when you shoot in DVD-VR mode.

Playlist Editing

Playlists can be created on DVD-RW discs recorded by your DVD Handycam camcorder in DVD-VR mode. By creating a Playlist, you can rearrange your recorded scenes, cut and divide scenes, and create the playback order that tells your story in the most effective way.



OTHER DVD FORMATS

In addition to DVD-ROM, DVD-R and DVD-RW, the following DVD standards also are currently being marketed.

DVD-RAM	A rewritable media allowing up to 100,000 reliable rewriting operations. It cannot be played back on standard DVD players; only players supporting DVD-RAM can be used.
DVD+R	A once-only recording media similar in capability to DVD-R.
DVD+RW	A rewritable media similar in capability to DVD-RW.

While DVD-R and DVD+R, and DVD-RW and DVD+RW, have the same basic construction and performance, there are differences in the way the disc rotational control systems and data recoding positions are configured. It is due to these differences that the DVD Handycam® Camcorders use only the DVD-R/DVD-RW media.

DCR-DVD100

DVD Handycam® Camcorder

FEATURES

1/4" Advanced HAD™ CCD Imager, 680K Pixels Gross
1/4" Advanced HAD (Hole Accumulation Diode) CCD with 340K (effective) video pixels provides excellent detail and clarity, with beautiful digital video (up to 500 lines of resolution) and still image performance. Realize great looking digital still images utilizing 340K (effective) pixels.

DVD[1] Format Video Recording
The DVD recording format delivers digital video and sound quality comparable to that of MiniDV. Playback of the DVD media is simple and convenient. After finalizing the disc in the camcorder, the DVD disc will playback in most compatible DVD Players, computers and even PlayStation® 2 video game consoles.

Professional Quality Carl Zeiss® Vario-Sonnar® Lens
Carl Zeiss lenses have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Digital Zoom
The optical zoom helps to bring the action up close from far away. In addition, the digital zoom interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

2.5" SwivelScreen™ LCD Display (123K Pixels)
Provides excellent viewing clarity with improved resolution. The 123K pixels LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images for monitoring or playback.

Color Viewfinder
Provides a clear, color view of subjects and makes spotting and/ or following subjects easier.

Digital Still Memory Mode
Digital Still Memory Mode captures high quality still images at 640 x 480 resolution directly to DVD-R or DVD-RW media. Images are stored in the JPEG format providing easy transfer to PCs for emailing, printing, or sharing with family and friends.

Visual Index Screen
Shows thumbnail images of movies and still images when playing back on your camcorder or DVD player, making scene selection easier.

USB 2.0 Interface
USB 2.0 interface provides an easy way to connect your DVD Handycam® Camcorder to computers for fast transfer of video and still images for editing. The camcorder can also be used as an external DVD burner, convenient for making copies of your DVDs or burning edited movies.

Super NightShot Infrared System and Color Slow Shutter
With Super NightShot infrared system capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Super SteadyShot Picture Stabilization System
An advanced version of Sony's SteadyShot® system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Progressive Shutter System
A mechanical shutter system that provides progressive scan performance, while utilizing an interlaced scanning system. Digital still images will be sharp and clear with excellent definition.

Analog Inputs
Record any analog NTSC source to digital video via the analog inputs. Perfect for archiving analog tape recordings. This recorded video can then be edited on your computer.

InfoLithium® Battery with AccuPower™ Meter System
Charge the battery at any time because unlike NiCad (Nickel Cadmium) batteries Sony's rechargeable Lithium-Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in the viewfinder or the LCD screen.

Battery Information
Battery Information is momentarily displayed without having to power on the camcorder. Quickly access the battery's status by pressing the Battery Info button. The Recording Time Available is displayed in minutes, on either the LCD screen or viewfinder.

Intelligent Accessory Shoe
Conveniently gives you the option of adding accessories such as lights, flashes and microphones to the camera, which can communicate with the camera and also draw power from the camera

Dolby Digital® AC-3 (2 Channel) Stereo Audio Recording
An advanced form of Digital Audio recording, with sophisticated noise reduction technology, that provides outstanding, lifelike sound quality in almost any situation.

Program AE (Auto Exposure) Modes
Program AE modes make recording easy even when filming in challenging situations. Choose from Spotlight, Portrait, Sports, Beach & Ski, Sunset & Moon and Landscape modes.

[1] DVD-R/RW discs recorded by Sony DVD Handycam Camcorders are designed to be compatible with and may be played back on most home DVD players, computer DVD drives and PlayStation® 2 video game consoles sold in the U.S.*

ADDITIONAL FEATURES

Date/Time Display
Digital Picture Effects
Disc Titling
EXIF 2.2
Exposure Control
Fader Modes
Manual Focus
Microphone Jack
Picture Effect Modes
Playback Zoom
White Balance Adjustment
World Clock

SPECIFICATIONS

Imaging Device: 1/4", 680K Gross Pixels Advanced HAD™ CCD
Video Actual: 340K Pixels
Still Actual: 340K Pixels
F: 1.7-2.2
Focal Distance: 3.3-33mm
35mm Conversion: 42-420mm (Camera Mode)
42-420mm (Memory Mode)
Filter Diameter: 30mm
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Dial)
Minimum Illumination: 5 Lux (0 Lux with NightShot® Infrared System)
NightShot® Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: Auto, 1/4-1/4000 (Program AE)
Memory Mode: Yes, 640 x 480
Viewfinder: Color (113K)
LCD: 2.5" Color (123K)
Intelligent Accessory Shoe: Yes
Video Input/Output: Yes/Yes (Mini & S-Video)
Audio Input/Output: Yes/Yes (Stereo, Special)
i.LINK® Interface (IEEE1394): N/A
USB Terminal[3]: Yes (High-Speed 2.0 Capable)
USB Streaming: N/A
Headphone Jack: N/A
Mic-Input: Yes (Stereo)
White Balance: Auto/Outdoor/Indoor/Hold (Menu)
Exposure: Yes, Dial (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 5.5W/6.5W/6.7W
Software OS Compatibility: Microsoft® Windows® 2000 Professional, Me, XP Home/Professional Operating Systems
Dimensions (WHD): 2 5/8" x 3 3/4" x 5 5/8" (66mm x 99mm x 142mm)
Weight: 1 lb 6 oz (640g) without disc and battery
Supplied Accessories: AC-L15A Power Adaptor/In Camera Charger, NP-FM50 InfoLithium® Rechargeable Battery, RMT-820 Wireless Remote Commander® Remote Control, 2 AA Batteries, Stereo A/V Cable, Lens Cap, Cleaning Cloth, Blank DVD-R Media, USB Cable, CD-ROM with USB Driver SPVD-0011 (Pixela ImageMixer™ Software Ver. 1.5 for Sony).

worry FREE™ BATTERY LIFE

Battery[2] (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM50	85/70/70 min	80/100 min
NP-FM70	185/155/150 min	175/210 min
NP-FM90	280/235/230 min	265/325 min
NP-FM91	325/275/265 min	305/375 min
NP-QM71/71D	215/180/175 min	205/245 min
NP-QM91/91D	325/275/265 min	305/375 min

RECORD TIMES
(Single Sided Discs)

HQ (High Quality)	Approximately 20 minutes
SP (Standard Play)	Approximately 30 minutes
LP (Long Play)	Approximately 60 minutes

STILL IMAGE MODE (Approx)

Resolution	DVD-R (Fine/Standard)	DVD-RW (Fine/Standard)	VR Mode (Fine/Standard)
640 x 480	5100/8200	5400/8700	5500/8800

OPTIONAL ACCESSORIES

ACC-DVDM Starter Kit
LCS-VA5 High Grade Carrying Case
AC-SQ950D AC/DC Quick Charger for Super Quick Batteries
NP-QM71D/91D Super Quick High Capacity InfoLithium® Batteries
NP-FM50/FM70/FM90 High Capacity InfoLithium® Batteries
DMR30/60DS DVD-R Media
DMW30/60DS DVD-RW Media
VCL-HG0730 High Grade Wide Angle Lens
HVL-F1000 Flash
VCT-870RM Remote Control Tripod
ECM-HS1 Zoom Microphone
VF-30NK Neutral Density Filter Kit

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[2] Battery life may vary depending on usage patterns.
[3] Not all products with a USB 2.0 connector may communicate with each other due to chipset variations.

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di

DCR-DVD200

DVD Handycam® Camcorder

Do Video on Disc (SHOOT / PLAY / SHARE)

DVD R/RW

FEATURES

1/4.7" 1.0 Megapixel Advanced HAD™ CCD Imager

1.07 (Gross) 1.00 (Effective Still) MEGA PIXEL MEGA PIXEL CCD

1/4.7" Advanced HAD™ (Hole Accumulation Diode) CCD imager with 690K (effective) video pixels provides excellent detail and clarity, for exceptional digital video (up to 520 lines of resolution in HQ Mode) and still image performance. Realize great looking digital still images with 1,000K (effective) pixels.

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Carl Zeiss

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The optical zoom helps to bring the action up close from far away. In addition, the digital zoom interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

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Provides excellent viewing clarity with improved resolution. The 123K pixels LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images for monitoring or playback.

Color Viewfinder

COLOR VIEW FINDER

Provides a clear, color view of subjects and makes spotting and/or following subjects easier.

Digital Still Memory Mode

DIGITAL STILL MEMORY MODE

Digital Still Memory Mode captures high quality still images at 1152 x 864, or 640 x 480 resolution directly to DVD-R or DVD-RW media. Images are stored in the JPEG format providing easy transfer to PCs for emailing, printing, or sharing with family and friends.

Visual Index Screen

Shows thumbnail images of movies and still images when playing back on your camcorder or DVD player, making scene selection easier.

USB 2.0 Interface

HI-SPEED USB CERTIFIED

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Super NightShot 0 LUX

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An advanced version of Sony's SteadyShot® system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Progressive Shutter System

A mechanical shutter system that provides progressive scan performance, while utilizing an interlaced scanning system. Digital images will be sharp and clear with excellent definition.

AE (Auto Exposure) Bracketing

Auto Exposure Bracketing (3 shots)

The camcorder shoots 3 images at different exposure levels with a press of the photo button.

Burst Mode

Multi Burst

Capture up to 4 images at 1152 x 864 resolution, or 12 images at 640 x 480 resolution consecutively, perfect for capturing fast action.

Analog Inputs

Record any analog NTSC source to digital video via the analog inputs. Perfect for archiving analog tape recordings. This recorded video can then be edited on your computer.

InfoLithium® Battery with AccuPower™ Meter System

InfoLITHIUM M

Charge the battery at any time because unlike NiCad (Nickel Cadmium) batteries Sony's rechargeable Lithium-Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in the viewfinder or the LCD screen.

Battery Information

Battery Info

Battery Information is momentarily displayed without having to power on the camcorder. Quickly access the battery's status by pressing the Battery Info button. The Recording Time Available is displayed in minutes, on either the LCD screen or viewfinder.

Intelligent Accessory Shoe

Conveniently gives you the option of adding accessories such as lights, flashes and microphones to the camera, which can communicate with the camera and also draw power from the camera.

STEP-UP FEATURE

[1] DVD-R/RW discs recorded by Sony DVD Handycam Camcorders are designed to be compatible with and may be played back on most home DVD players, computer DVD drives and PlayStation® 2 video game consoles sold in the U.S.*

ADDITIONAL FEATURES

Date/Time Display
Digital Picture Effects
Disc Titling
Dolby Digital® AC-3 (2 Channel) Stereo Audio Recording
Exposure Control
EXIF 2.2
Fader Modes
Manual Focus
Microphone Jack
Picture Effect Modes
Playback Zoom
Program AE (Auto Exposure) Modes
White Balance Adjustment
World Clock

SPECIFICATIONS

Imaging Device: 1/4.7", 1070K Gross Pixels, Advanced HAD™ CCD
Video Actual: 690K Pixels
Still Actual: 1000K Pixels
F: 1.8-2.0
Focal Distance: 3.7-37mm
35mm Conversion: 50-500mm (Camera Mode)
42-420mm (Memory Mode)
Filter Diameter: 30mm
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Dial)
Minimum Illumination: 7 Lux (0 Lux with NightShot® Infrared System)
NightShot® Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: Auto, 1/4-1/4000 (Program AE)
Memory Mode: Yes, 1152 x 864, 640 x 480
Viewfinder: Color (113K)
LCD: 2.5" Color (123K)
Intelligent Accessory Shoe: Yes
Video Input/Output: Yes/Yes (Mini & S-Video)
Audio Input/Output: Yes/Yes (Stereo, Special)
i.LINK® Interface (IEEE1394): N/A
USB Interface[3]: Yes (High-Speed 2.0 Capable)
USB Streaming: N/A
Headphone Jack: N/A
Mic-Input: Yes (Stereo)
White Balance: Auto/Outdoor/Indoor/Hold (Menu)
Exposure: Yes, Dial (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 6.0W/7.0W/7.2W
Software OS Compatibility: Microsoft® Windows® Me, 2000 Professional, XP Home/Professional Operating Systems
Dimensions (WHD): 2 5/8" x 3 3/4 x 5 5/8" (66mm x 99mm x 142mm)
Weight: 1 lb. 6 oz (650g) without disc and battery
Supplied Accessories: AC-L15A Power Adaptor/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-820 Wireless Remote Commander® Remote Control, 2 AA Batteries, Stereo A/V Cable, Lens Cap, Cleaning Cloth, Blank DVD-R Media, USB Cable, CD-ROM with USB Driver SPVD-0011 (Pixela ImageMixer™ Software Ver. 1.5 for Sony)

worry FREE™ BATTERY LIFE

Battery[2] (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM50	75/65/60 min	80/100 min
NP-FM70	170/145/140 min	175/210 min
NP-FM90	255/220/215 min	265/325 min
NP-FM91	295/255/245 min	305/375 min
NP-QM71/71D	195/165/160 min	205/245 min
NP-QM91/91D	295/255/245 min	305/375 min

RECORD TIMES
(Single Sided Discs)

HQ (High Quality)	Approximately 20 minutes
SP (Standard Play)	Approximately 30 minutes
LP (Long Play)	Approximately 60 minutes

STILL IMAGE MODE (Approx)

Resolution	DVD-R (Fine/Standard)	DVD-RW (Fine/Standard)	VR Mode (Fine/Standard)
1152 x 864	2150/4100	2250/4350	2300/4400
640 x 480	5100/8200	5400/8700	5500/8800

OPTIONAL ACCESSORIES

ACC-DVDM Starter Kit
LCS-VA5 High Grade Carrying Case
AC-SQ950D AC/DC Quick Charger for super quick batteries
NP-QM71D/91D Super Quick High Capacity InfoLithium® Batteries
NP-FM50/FM70/FM90 High Capacity InfoLithium Batteries
DMR30/60DS DVD-R Media
DMW30/60DS DVD-RW Media
VCL-HG2030 High Grade Telephoto Lens
HVL-F1000 Flash
VCT-870RM Remote Control Tripod
ECM-MSD1 High Fidelity Stereo Microphone
VF-30NK Neutral Density Filter Kit

*Playback on all home DVD players, computer DVD drives, and PlayStation 2 consoles cannot be guaranteed. Some players, drives, and video game consoles lack the ability to read due to the optical reflection standard of DVD-R/RW discs and/or due to encoding incompatibilities. Refer to the specifications of your playback equipment for additional compatibility information.
[2] Battery life may vary depending on usage patterns.
[3] Not all products with a USB 2.0 connector may communicate with each other due to chipset variations.

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di

DCR-DVD300

DVD Handycam® Camcorder

Do Video on Disc (SHOOT, PLAY, SHARE)

DVD R/RW

FEATURES

1/4.7" 1.0 Megapixel Advanced HAD™ CCD Imager

1.07 (Gross) 1.00 (Effective Still) MEGA PIXEL MEGA PIXEL CCD

1/4.7" Advanced HAD™ (Hole Accumulation Diode) CCD imager with 690K (effective) video pixels provides excellent detail and clarity, for exceptional digital video (up to 520 lines of resolution in HQ Mode) and still image performance. Realize great looking digital still images with 1,000K (effective) pixels.

DVD[1] Format Video Recording

The DVD recording format delivers digital video and sound quality comparable to that of MiniDV. Playback of the DVD media is simple and convenient. After finalizing the disc in the camcorder, the DVD disc will playback in most compatible DVD Players, computers and even PlayStation® 2 video game consoles.

Professional Quality Carl Zeiss® Vario-Sonnar® Lens

Carl Zeiss

Carl Zeiss lenses have an advanced optical multi-layer coating offering less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation, and perfect renditions of subtle tones.

10X Optical/120X Digital Zoom

The optical zoom helps to bring the action up close from far away. In addition, the digital zoom interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

➤3.5" SwivelScreen™ LCD Display (123K Pixels)

Provides excellent viewing clarity with improved resolution. The 123K pixels LCD rotates up to 270-degrees for multiple viewing angles providing sharp detailed images for monitoring or playback.

Color Viewfinder

COLOR VIEW FINDER

Provides a clear, color view of subjects and makes spotting and/or following subjects easier.

Digital Still Memory Mode

DIGITAL STILL MEMORY MODE

Digital Still Memory Mode captures high quality still images at 1152 x 864, and 640 x 480 resolution directly to DVD-R or DVD-RW media. Images are stored in the JPEG format providing easy transfer to PCs for emailing, printing, or sharing with family and friends.

Visual Index Screen

Shows thumbnail images of movies and still images when playing back on your camcorder or DVD player, making scene selection easier.

USB 2.0 Interface

HI-SPEED CERTIFIED USB

USB 2.0 interface provides an easy way to connect your DVD Handycam camcorder to computers for fast transfer of video and still images for editing. The camcorder can also be used as an external DVD burner, convenient for making copies of your DVDs or burning edited movies.

Super NightShot Infrared System and Color Slow Shutter

Super NightShot 0 LUX

With Super NightShot infrared system capture video in total darkness (0 lux) up to 10 feet away. Super NightShot mode automatically adjusts the shutter speed to increase picture brightness and clarity. Color Slow Shutter mode allows you to record in low light situations with full color detail by slowing down the shutter speed.

Super SteadyShot Picture Stabilization System

Super SteadyShot

An advanced version of Sony's SteadyShot® system that controls an even higher range of shake and vibration frequencies, to achieve an even higher level of smoothness without degradation of video like some other image stabilization systems.

Progressive Shutter System

A mechanical shutter system that provides progressive scan performance, while utilizing an interlaced scanning system. Digital images will be sharp and clear with excellent definition.

AE (Auto Exposure) Bracketing

Auto Exposure Bracketing (3 shots)

The camcorder shoots 3 images at different exposure levels with a press of the photo button.

Burst Mode

Multi Burst

Capture up to 4 images at 1152 x 864 resolution, or 12 images at 640 x 480 resolution consecutively, perfect for capturing fast action.

Analog Inputs

Record any analog NTSC source to digital video via the analog inputs. Perfect for archiving analog tape recordings. This recorded video can then be edited on your computer.

InfoLithium® Battery with AccuPower™ Meter System

InfoLITHIUM M

Charge the battery at any time because unlike NiCad (Nickel Cadmium) batteries Sony's rechargeable Lithium-Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter displays the battery time remaining in minutes, in the viewfinder or the LCD screen.

Battery Information

Battery Info

Battery Information is momentarily displayed without having to power on the camcorder. Quickly access the battery's status by pressing the Battery Info button. The Recording Time Available is displayed in minutes, on either the LCD screen or viewfinder.

Intelligent Accessory Shoe

Conveniently gives you the option of adding accessories such as lights, flashes and microphones to the camera, which can communicate with the camera and also draw power from the camera.

[1] DVD-R/RW discs recorded by Sony DVD Handycam Camcorders are designed to be compatible with and may be played back on most home DVD players, computer DVD drives and PlayStation® 2 video game consoles sold in the U.S.*

DCR-DVD300

ADDITIONAL FEATURES

Date/Time Display
Digital Picture Effects
Disc Titling
Dolby Digital® AC-3 (2 Channel) Stereo Audio Recording
EXIF 2.2
Exposure Control
Fader Modes
Manual Focus
Microphone Jack
Picture Effect Modes
Playback Zoom
Program AE (Auto Exposure) Modes
White Balance Adjustment
World Clock

SPECIFICATIONS

Imaging Device: 1/4.7", 1070K Gross Pixels, Advanced HAD™ CCD
Video Actual: 690K Pixels
Still Actual: 1000K Pixels
F: 1.8-2.0
Focal Distance: 3.7-37mm
35mm Conversion: 50-500mm (Camera Mode)
42-420mm (Memory Mode)
Filter Diameter: 30mm
Optical Zoom: 10X
Digital Zoom: 120X
Focusing: Full Range Auto/Manual (Dial)
Minimum Illumination: 7 Lux (0 Lux with NightShot® Infrared System)
NightShot® Infrared System: Super NightShot, Color Slow Shutter
Shutter Speed: Auto, 1/4-1/4000 (Program AE)
Memory Mode: Yes, 1152 x 864, 640 x 480
Viewfinder: Color (113K)
LCD: 3.5" Color (123K)
Intelligent Accessory Shoe: Yes
Video Input/Output: Yes/Yes (Mini & S-Video)
Audio Input/Output: Yes/Yes (Stereo, Special)
i.LINK® Interface (IEEE1394): N/A
USB Interface[3]: Yes (High-Speed 2.0 Capable)
USB Streaming: N/A
Headphone Jack: N/A
Mic-Input: Yes (Stereo)
White Balance: Auto/Outdoor/Indoor/Hold (Menu)
Exposure: Yes, Dial (24 Steps)
Power Consumption (VF/LCD/VF+LCD): 6.0W/7.2W/7.4W
Software OS Compatibility: Microsoft® Windows® Me, 2000 Professional, XP Home/Professional Operating Systems
Dimensions (WHD): 3 1/8" x 3 3/4 x 5 5/8" (79mm x 94mm x 142mm)
Weight: 1 lb. 9 oz (710g) without disc and battery
Supplied Accessories: AC-L15A Power Adaptor/In Camera Charger, NP-FM50 InfoLithium Rechargeable Battery, RMT-820 Wireless Remote Commander® Remote Control, 2 AA Batteries, Stereo A/V Cable, Lens Cap, Cleaning Cloth, Blank DVD-R Media, USB Cable, CD-ROM with USB Driver SPVD-0011 (Pixela ImageMixer™ Software Ver. 1.5 for Sony)

worry FREE™ BATTERY LIFE

Battery[2] (Fully charged)	Rec Time VF/LCD/VF+LCD	Playback Time LCD On/Off
NP-FM50	75/65/60 min	75/100 min
NP-FM70	170/145/135 min	170/210 min
NP-FM90	255/215/210 min	255/325 min
NP-FM91	295/245/240 min	295/375 min
NP-QM71/71D	195/160/160 min	195/245 min
NP-QM91/91D	295/245/240 min	295/375 min

RECORD TIMES
(Single Sided Discs)

HQ (High Quality)	Approximately 20 minutes
SP (Standard Play)	Approximately 30 minutes
LP (Long Play)	Approximately 60 minutes

STILL IMAGE MODE (Approx)

Resolution	DVD-R (Fine/Standard)	DVD-RW (Fine/Standard)	VR Mode (Fine/Standard)
1152 x 864	2150/4100	2250/4350	2300/4400
640 x 480	5100/8200	5400/8700	5500/8800

OPTIONAL ACCESSORIES

ACC-DVDM DVD Handycam Camcorder Starter Kit
AC-SQ950D AC/DC Quick Charger for super quick batteries
NP-QM71D/91D Super Quick High Capacity InfoLithium® Batteries
NP-FM50/FM70/FM90 High Capacity InfoLithium Batteries
DMR30/60DS DVD-R Media
DMW30/60DS DVD-RW Media
VF-30NK Neutral Density Filter Kit
HVL-F1000 Flash
VCT-870RM Remote Control Tripod
ECM-MSD1 High Fidelity Stereo Microphone
VCL-HG2030 High Grade Telephoto Lens

*Playback on all home DVD players, computer DVD drives, and PlayStation 2 consoles cannot be guaranteed. Some players, drives, and video game consoles lack the ability to read due to the optical reflection standard of DVD-R/RW discs and/or due to encoding incompatibilities. Refer to the specifications of your playback equipment for additional compatibility information.
[2] Battery life may vary depending on usage patterns.
[3] Not all products with a USB 2.0 connector may communicate with each other due to chipset variations.

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, CA 92127
www.sony.com/di

DVD Handycam® Camcorder	DCR-DVD100	DCR-DVD200	DCR-DVD300
SPPG*	$899	$999	$1,099
A/V Performance			
Video Recording System	MPEG2 Variable Bit Rate System	MPEG2 Variable Bit Rate System	MPEG2 Variable Bit Rate System
Video Playback System	MPEG2 Variable Bit Rate System	MPEG2 Variable Bit Rate System	MPEG2 Variable Bit Rate System
Audio Recording System	Dolby Digital® AC-3 (2 channel)	Dolby Digital® AC-3 (2 channel)	Dolby Digital® AC-3 (2 channel)
Audio Playback System	Dolby Digital® AC-3 (2 channel)	Dolby Digital® AC-3 (2 channel)	Dolby Digital® AC-3 (2 channel)
CCD Imaging Device (gross pixels)	1/4" 680K	1/4.7" 1,070K	1/4.7" 1,070K
Filter Diameter	30mm	30mm	30mm
Carl Zeiss® Lens	Yes	Yes	Yes
Progressive Shutter System	Yes	Yes	Yes
Super NightShot Infrared/ Color Slow Shutter	Yes	Yes	Yes
Optical Zoom Lens (Variable Speed)	10X	10X	10X
Digital Zoom	120X	120X	120X
SteadyShot® Picture Stabilization	Yes (Super)	Yes (Super)	Yes (Super)
Minimum Illumination (w/o NightShot® System)	5 Lux	7 Lux	7 Lux
Minimum Illumination (w/ NightShot® System)	0 Lux	0 Lux	0 Lux
Shutter Speed	Auto 1/4- 1/4000 (In AE Mode)	Auto 1/4-1/4000 (In AE Mode)	Auto 1/4-1/4000 (In AE Mode)
Power Management			
Stamina Battery Life	Up to 5.5 Hours	Up to 5.5 Hours	Up to 5.5 Hours
AccuPower™ Battery Meter	Yes	Yes	Yes
Battery Info	Yes	Yes	Yes
Convenience			
SwivelScreen™ LCD Monitor (diagonal)	2.5" 123K pixels	2.5" 123K pixels	3.5" 123K pixels
Viewfinder	113K Color	113K Color	113K Color
USB Interface	Yes, High-Speed USB 2.0 Capable	Yes, High-Speed USB 2.0 Capable	Yes, High-Speed USB 2.0 Capable
Playback Zoom	5X	5X	5X
Disc Titling	Yes	Yes	Yes
Visual Index Screen	Yes	Yes	Yes
Analog Audio/ Video Inputs	Yes/Yes (Mini)	Yes/Yes (Mini)	Yes/Yes (Mini)
Built-In Speaker	Yes	Yes	Yes
Microphone Jack	Yes (Mini, Stereo)	Yes (Mini, Stereo)	Yes (Mini, Stereo)
Headphone Jack	N/A	N/A	N/A
Edit Search	Yes	Yes	Yes
World Time Clock	Yes	Yes	Yes
Intelligent Accessory Shoe	Yes	Yes	Yes
Remote Control	Yes (RMT-820)	Yes (RMT-820)	Yes (RMT-820)
Dimensions (WHD)	2 5/8" x 3 3/4" x 5 5/8" (66 x 99 x 142mm)	2 5/8" x 3 3/4" x 5 5/8" (66 x 99 x 142mm)	3 1/8" x 3 3/4" x 5 5/8" (79 x 94 x 142mm)
Weight (w/o disc and battery)	1 lb 6 oz (640g)	1 lb 6 oz (650g)	1 lb 9 oz (710g)
Special Features			
Picture Effects	Yes	Yes	Yes
Digital Picture Effects	Yes	Yes	Yes
Audio/ Video Digital Fader	Yes	Yes	Yes
16:9 Recording	Yes	Yes	Yes
Digital Photo Mode	Yes	Yes	Yes
Manual Controls			
Program Auto Exposure	6 Modes	6 Modes	6 Modes
White Balance Adjustment	4 Modes	4 Modes	4 Modes
Manual Focus	Yes (Dial)	Yes (Dial)	Yes (Dial)
Manual Exposure	Yes (Dial)	Yes (Dial)	Yes (Dial)

**Suggested Profit Picture Guideline. Retail prices may vary.*

DVD ACCESSORIES

POWER

NP-QM71D/NPQM91D
InfoLithium® Batteries
- Provides extra battery power for extended recording

BC-TRM
Compact AC Travel Charger
- Built-In Retracting AC Plug for convenient storage

CARRYING CASES AND KITS

ACC-DVDM
DVD Handycam®
Camcorder Starter Kit
- LCS-DVDM Carrying Case
- NP-FM50 InfoLithium® Battery
- DMW30 DVD-RW Media

LCS-VA5
Deluxe Carrying Case
- Rugged Ballistic nylon with brushed nickel hardware
- Outside pockets for convenient organization of accessories

FILTERS AND LENSES

VF-30CPKS
Filter Set
- Circular polarizer helps to eliminate glare and reflection
- Clear Multi-Coat filter offers everyday protection

VCL-HG2030
Telephoto Lens
- Doubles the optical zoom of the camcorder without distortion

VCL-HG0730
Wide Angle Lens
- Provides a wider angle field of view-perfect for group or scenery shots

TRIPODS AND MICROPHONES

VCT-D680RM
Remote Control Tripod
- Pan handle with remote function allows operation of the camera
- Extends to over 57" in height

ECM-MSD1
Stereo Zoom Microphone
- Adjustable pickup patterns

MEDIA

DVD-R Media
- DMR-30 provides up to 60 minutes of recording
- DMR-60 provides up to 120 minutes of recording on double-sided media

DVD-RW Media
- DMW-30 provides up to 60 minutes of recording
- DMW-60 provides up to 120 minutes of recording on double-sided media
- Re-recordable

GLOSSARY

Bit Rate
The amount (measured in "bits") of data that flows in a specified period of time. For video recording and playback, which requires a large amount of data, bit rate is expressed in Mbps ("megabits per second"). In general, a higher bit rate results in higher-quality picture and sound. Bit rate can also be constant or variable.

Coding
In a digital video or audio signal, coding (or encoding) refers to the process of converting data from one form to another — for example, into a compressed form so more data can be recorded and stored on a DVD disc. During playback, the compressed data is decoded to its original form.

Dolby® AC-3® System
The audio system used in DVD Handycam® Camcorder recordings. In the Dolby AC-3 system, audio can be recorded in 2-channel stereo, monophonic, or 5.1 channel surround sound (using six speakers for front left/right, center, rear left/right, and subwoofer). Audio compression only takes place in the frequency range beyond human hearing.

DVD Applications
DVD is a multipurpose medium used for storing moving and still images, audio and data. Its official name is "Digital Versatile Disc." There are various applications for DVD discs, including high-capacity storage of computer software and data. DVD video applications include DVD-Video, used for high-quality commercial recordings, and DVD-VR (Video Recording), used for personal video recordings that can be re-written (recorded more than once) and edited.

DVD Formats
DVD discs for video recording exist in various formats or standards. DVD-ROM is a playback-only format used for commercial movies. DVD-R is a format that can be recorded only once. DVD-RW can be recorded, edited and re-written (re-recorded). DVD-RAM, DVD+R and DVD+RW are alternate recordable formats not compatible with Sony DVD Handycam® Camcorders, which use only discs that conform to DVD-R and DVD-RW standards.

DVD-Video
The application for DVD recordings that do not require editing. DVD-Video allows up to 2 hours of high quality moving images and sound on a single, dual-sided disc, using MPEG2 coding for movies and Dolby® AC-3® (Dolby Digital 2-Channel system) or linear PCM recording for sound. DVD-Video is an optical disc format that also allows for special playback features such as multiple screen ratios, captions, language options, and simultaneous multi-angle viewing of a scene.

DVD-VR
The application for which Sony DVD Handycam® Camcorders are designed. DVD-VR (or DVD Video Recording) provides added in-camera capabilities such as re-recording, editing, playlist display, etc.

Finalizing
Finalizing a disc enables its recorded contents to be played back on other equipment. Once finalized, DVD-R and DVD-RW discs are read as though they were commercially recorded DVD movies — allowing them to be played back on most DVD players. A finalized disc can no longer be re-recorded, but DVD-RW discs can be "unfinalized" to return them to recordable state.

Initializing
Initializing a disc allows the disc to be recorded or written on. Initializing a previously recorded disc will erase all existing data on the disc. DVD-R discs do not need to be initialized. DVD-RW discs must be initialized. The DVD Handycam camcorder system provides an "initializing" prompt each time a new DVD-RW disc is inserted.

MPEG2
MPEG2 is an industry standard for demanding video applications. It offers high quality images with data compression that reduces the amount of data that must be processed. Rather than processing complete video frames, the MPEG2 system processes only the differences between adjacent frames.

MP@ML
The MPEG2 standard allows various parameter setups for picture formats and coding modes. MP@ML (Main Profile at Main Level) is the parameter setup adopted for DVD-Video and DVD-VR (Video Recording) applications. "Profile" refers to the combination of functions provided; "Level" refers to the level of resolution and frame rate. Numerical Aperture (NA) value determines the performance of an object lens; the larger the value, the more data can be written at any one time.

Pit
Pits describe the microscopic hollows within the surface of a DVD-ROM or CD-ROM disc. Data is read in a spiral motion and is determined by the length and number of pits that occur. The discs used by DVD Handycam® Camcorders do not have pits; instead, their data is carried by changes in reflection on the disc's surface.

Playlist
The function that arranges movie scenes and still images on a DVD disc. Playlists can be set up for editing and playback purposes; recorded scenes and still images are not changed by being put in playlist order.

Track
A data-recording field in the shape of a spiral or concentric circle. CD and DVD tracks have a spiral structure; floppy disc and hard disc tracks are concentric. The distance between adjacent tracks is called "track pitch."

Variable Bit Rate
Variable Bit Rate (VBR) changes its data conversion process depending on the amount of movement (or "dynamics") in a given scene; its purpose is to reduce data requirements to a minimum while maintaining high image quality.

Visual Index
A DVD Handycam Camcorder function that displays movie scenes and still images as "thumbnail" images on a multi-image screen, making it easy to find a specific scene or image for playback.

SONY

GETTING STARTED...

A QUICK GUIDE TO USING YOUR DVD HANDYCAM® CAMCORDER

What can you do with your DVD Handycam® Camcorder?

View your recorded discs on compatible DVD playback devices

View your video on a host of playback devices, including compatible DVD players, computers, and PlayStation®2 consoles.*

Enjoy instant access to your thumbnail scenes and video clips

The thumbnail feature found on your DVD Handycam camcorder allows you to instantly access your recorded video moments on your home DVD player. Using the menu button, your DVD home player can recognize the thumbnail video clips just like chapters on a DVD! See page 66 of the Owner's Manual for full instructions.

Edit or copy your discs using your PC*

Utilizing either your computer's DVD-ROM drive or connecting via the supplied USB cable from your camcorder to your PC, you can easily edit and duplicate your DVD movies and still images on your PC using the included Pixela ImageMixer™ software. See page 89 of the Owner's Manual for complete instructions. NOTE: Pixela ImageMixer™ software cannot be used with Macintosh® computers.

Which types of DVD discs can you use in your DVD Handycam® Camcorder?

Your DVD Handycam camcorder can record on either 8 cm (3 inch) DVD-R or DVD-RW discs.

DVD-R

(recommended: Sony® DMR30, DMR60DS)

- DVD-R media is for one-time-only recording
- Suitable for a permanent video record or copying
- Records in "VIDEO" mode only

DVD-RW

(recommended: Sony® DMW30, DMW60DS)

- DVD-RW media can be recorded and re-recorded (overwritten) up to 1000 times
- Designed for recording footage with the purpose of editing
- Can be recorded in either "VIDEO" or "VR" mode

VIDEO mode: Offers wide compatibility with other DVD playback devices, but the disc cannot be edited using your DVD Handycam camcorder.

VR mode: Disc can be edited on your DVD Handycam camcorder but offers very limited playback compatibility with your home DVD deck and other DVD playback devices.

NOTE: The following disc types are NOT compatible with your DVD Handycam Camcorder: 12 cm (5 inch) DVD-R; 12 cm DVD-RW ; DVD+R; DVD-RAM; DVD+RW

How to prepare and use your DVD Handycam® Camcorder

Inserting your DVD disc

In order to open the DVD disc cover, you must slide the "OPEN" switch forward and wait until the LED light becomes green (this will take 3-5 seconds). Once the light is green, please slide the "OPEN" switch forward again so that the disc cover will open. *Please note that in order to open the disc cover, the unit must be powered either by battery or the AC Adaptor.

Preparing your DVD disc

DVD-R Discs
Just insert a DVD-R disc into your camcorder, close the cover and begin recording immediately.

DVD-RW Discs
You must format a DVD-RW disc before you use it for the first time. To format, insert a DVD-RW disc into your camcorder, close the cover and select either "VIDEO" or "VR" mode. See page 26 of the Owner's Manual for detailed instructions.

NOTE: Disc should be inserted with label side facing up. (Applies to both DVD-R and DVD-RW discs).

Shooting your movies or still images

Both video and still images can be recorded onto the same disc. Because your DVD Handycam camcorder automatically remembers where your recording left off, you can instantly record without having to worry about overwriting previously recorded material or searching for the end-point of your last recording. See page 28 of the Owner's Manual for complete instructions.

Finalizing your DVD disc

IN ORDER TO VIEW YOUR IMAGES ON COMPATIBLE DVD PLAYBACK DEVICES, YOU MUST FIRST "FINALIZE" YOUR DISC. If you want to view your video before finalizing, you can play it back in your DVD Handycam® Camcorder See page 63 of the manual for more information and detailed instructions on the finalizing process.

>>

Which playback devices can be used to view your recorded DVD discs?*

DVD-R Discs

(VIDEO mode only)

DVD player
DVD recorder
PlayStation®2 consoles

DVD-ROM drive installed computer

Please remember that you must FINALIZE your disc before playing it back on a compatible device*

DVD-RW Discs

(recorded in VIDEO mode)

DVD player
DVD recorder
PlayStation®2 consoles

DVD-ROM drive installed computer

(recorded in VR mode)

DVD player
DVD recorder

DVD-ROM drive installed computer

Devices must have VR mode compatibility.

*DVD-R/RW discs recorded by Sony DVD Handycam camcorders are designed to be compatible with and may be played back on most home DVD players, computer DVD drives, and PlayStation 2 video game consoles sold in the U.S. Playback on all devices cannot be guaranteed as some players, drives, and video game consoles lack the ability to read due to the optical reflection standards of DVD-R/RW discs and/or due to encoding incompatibilities. Please refer to the specifications of your playback equipment for additional compatibility information.