

HDR-UX20

High Definition DVD Handycam® Camcorder

The HDR-UX20 delivers the ultimate in home video flexibility. At your choice, record stunning Full HD 1920 x 1080 video to DVD media, internal flash memory, or removable Memory Stick PRO Duo™ media. You can also shoot high resolution 4 megapixel still images and capture realistic Dolby® Digital 5.1 channel surround sound with zoom microphone feature for videos that come to life.

AVCHD

**Full HD
1080**

**1920x1080
recording**

**Face
Detection**
for video & photo

**HYBRID
Plus**
8GB⁹
internal memory

MEMORY STICK PRO DUO

**ClearVid
CMOS sensor**

Exmor™

x.v.Color

**2.7" WIDE
LCD Monitor**

**BRAVIA
Sync**

ZEISS

**HI-SPEED USB
USB 2.0**

InfoLITHIUM™

- **1920x1080 Recording**
Record stunning, incredibly detailed video footage in the clarity of 1920 x 1080 Full HD resolution.
- **Face Detection for Video Footage and Digital Still Photos**
Made possible by the BIONZ™ image processing engine, Face Detection technology recognizes up to 8 faces anywhere in the frame and automatically controls focus, exposure, and color to help capture smiling faces brightly and clearly. Face Detection also helps make skin tones look natural without affecting other colors in the image.
- **2.3 Megapixel ClearVid™ CMOS Sensor (with Exmor™ Technology) and BIONZ™ Image Processor**
Sony's newly designed CMOS image sensor with delivers bright, vivid, and spectacularly detailed 2.3 megapixel (effective) video footage, as well as 4 megapixel still images -- all with prolonged battery life. Exmor™ technology captures images with high resolution and high sensitivity. In addition, the advanced Sony BIONZ™ image processor improves camera response time and screens out noise so the signal from each pixel is as pure as possible.
- **BIONZ™ Image Processor**
The advanced Sony BIONZ™ Image Processor uses hardware-based Large Scale Integrated (LSI) circuitry that improves camera response time, screens out noise before RAW data conversion, handles Dynamic Range Optimization processing, and prolongs battery life.
- **Exmor™ Imaging Sensor**
Exmor™ technology captures video and still photo images with high resolution, high sensitivity, and exceptional detail. Advanced on-sensor A/D conversion yields rich tonal reproduction with high signal-to-noise ratio.
- **Hybrid Plus Recording to DVD, Internal Flash Memory, or Memory Stick® Media**
Hybrid Plus recording technology delivers a new level of flexibility for transferring your video footage and digital photos from the camcorder to compatible viewing devices. Record to your choice of DVD media, an internal 8GB⁹ flash memory drive, or removable Memory Stick Duo™ media or Memory Stick PRO Duo™ media (sold separately). You can even select from various dubbing functions to easily copy video or still images from Memory Stick media or built in flash memory media to DVD -- without using a PC. Images recorded or transferred to DVD media can then be played directly in most DVD Players (SD), computers, Blu-ray Disc™ players, and even PlayStation® 3 video game consoles to share your memories with friends and family.
- **Dual Record**
While recording video in High Definition you have the ability to capture still images directly to Memory Stick Duo™ media (sold separately).
- **15X Optical / 180X Digital Zoom**
The optical zoom helps to bring the action close up from far away. In addition, Digital Zoom Interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zoom.
- **2.7" Wide¹ (16:9) Hybrid Touch Panel Clear Photo LCD Plus™ Display (211K Pixels)**
The 2.7" Wide¹ (16:9) LCD screen provides exceptional viewing clarity with improved resolution (211K pixels). The display rotates up to 270 degrees for multiple viewing angles, as well as provides sharp, detailed images for monitoring or playback. The widescreen format makes shooting in 16:9 mode and composing shots even easier.
- **DVD Format Video Recording**
The DVD recording format, in both MPEG2 (SD) and AVCHD™ format², delivers digital picture and sound quality comparable to that of MiniDV and High Definition, but on DVD. Playback of these DVDs couldn't be simpler (depending upon the playback device used). After finalizing the disc in the camcorder, the disc can play back in most DVD Players (SD), computers, Blu-ray Disc™ players, and even PlayStation® 3 video game consoles.
- **DVD-R/-RW/+RW and +R DL (Dual Layer) Compatible³**
Compatibility with a variety of DVD formats³ allows 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 the finalized disc and insert the media into a compatible DVD or Blu-ray Disc™ Player.
- **Built-in zoom microphone with 5.1ch recording**
Featuring Dolby® Digital 5.1 Creator, the built-in zoom microphone focuses audio recording on your subjects in sync with the camera's zoom lens, helping memories ring true with clear dialogue and crisp, discrete sounds.

ADDITIONAL FEATURES

- Dolby® Digital 5.1ch Recording
- Quick On
- Dynamic Range Optimizer
- Easy Handycam Button
- Switchable HD/SD Format Recording
- Professional Quality Carl Zeiss® Vario-Sonnar® T Lens
- Active Interface Shoe
- HDMI™ Connection with BRAVIA® Sync™ (CEC) Technology
- USB 2.0 Interface⁶



HDR-UX20

High Definition DVD Handycam® Camcorder

Specifications

General

Imaging Device: 1/5" ClearVid™ CMOS sensor (with Exmor™ technology)
 Pixel Gross: 2300K
 Recording Media: 3" (8cm) DVD (DVD-R/DVD-RW/DVD+RW/DVD+R DL), internal Flash memory (8GB), Memory Stick Duo™ Media, Memory Stick PRO Duo™ Media
 Recording and Playback Times: High Definition: (Single Layer/Dual Layer) HQ+ = 15/25 min., HQ = 20/35 min., SP = 25/45 min., LP = 30/60 min. Standard Definition: (Single Layer/Dual Layer) HQ = 20/35 min., SP = 30/5 min., LP = 60/110 min. When using 8GB Memory Stick PRO Duo™ Media (sold separately): High Definition: FH = up to 55 min., HQ = up to 115 min. SP = up to 140 min., LP = up to 180 min. Standard Definition: HQ = up to 115 min., SP = up to 170 min., LP = up to 5 hours 25 min. When using 8GB Built-in Flash Media: High Definition: FH = up to 55 min., HQ = up to 115 min., SP = up to 140 min., LP = up to 180 min. Standard Definition: HQ = up to 115 min., SP = up to 170 min., LP = up to 325 min.
 Video Actual: 1120K Pixels (4:3), 1490K Pixels (16:9)
 Still Actual: 1990K Pixels (4:3), 1490K Pixels (16:9)
 Processor: BIONZ™ image processor
 Video Resolution: 1920 x 1080
 Still Picture Resolution: 4 megapixel

Audio

Audio Format: Dolby® Digital 5.1

Convenience

USB Streaming: N/A
 SteadyShot® Image Stabilization: O.I.S.
 White Balance: Auto, Outdoor, Indoor, One-push (touch panel)
 Memory Stick PRO™ Media Compatibility: Tested to support up to 8GB media capacity; does not support high speed transfer function; does not support Access Control security function.
 Still Image Mode(s): JPEG
 Minimum Illumination: 5 lux
 (Auto Slow Shutter ON, 1/30 Shutter Speed)
 Face Detection: Yes
 Hybrid Plus: Yes
 Quick On: Yes
 BRAVIA® Sync™ : Yes
 Dual Record: Yes

Convenience Features

Easy Operation: Yes
 Multiple Language Display: Yes
 Slide Show Mode: Yes
 Scene Mode(s): Auto, Twilight, Twilight Portrait (Still only), Candle, Sunrise & Sunset, Fireworks, Landscape, Portrait, Spotlight, Sports, Beach, Snow
 Picture Effect(s): Monotone, Sepia, Pastel
 Digital Picture Effect(s): Old Movie
 PictBridge Compatible: Yes
 Dynamic Range Optimizer: Yes
 Low Light Capability: S-NS
 Fader Effect(s): Black, White
 Face Index: Yes
 Film Roll Index: Yes
 Photo Capture from Movie: Yes
 Dubbing Button: N/A
 PhotoTVHD: Yes
 x.v.Color™ : Yes

Video

Video Signal System: NTSC color, EIA standards
 Format(s) Supported: HD: MPEG4 AVC/H.264 SD: MPEG2

Inputs and Outputs

LANC Terminal: Accessible via A/V Remote Terminal
 Analog Audio/Video Output(s): Included (via A/V Remote Terminal)
 Digital Audio/Video Output(s): Yes (via USB & i.LINK®)
 USB Port(s): Hi-speed (2.0 compliant)
 i.LINK® Interface: N/A
 Component Video (Y/Pb/Pr) Output(s): Included (via A/V Remote Terminal)
 Headphone Jack: N/A
 Microphone Input: N/A
 S-Video Output(s): Included in A/V Remote
 HDMI™ Connection Output(s): Yes (mini)
 Audio/Video Remote Terminal: Video/S Video/Audio/Component Out/Remote
 Active Interface Shoe: Yes

Display

LCD Screen: 2.7" wide¹ touch panel Clear Photo™ plus (211k pixels)

Hardware

Viewfinder: Color Wide 16:9 (123K Pixels)
 Microphone: Built-in Zoom Microphone
 Flash: Yes
 Memory Stick slot: Memory Stick PRO Duo™ Media
 Manual / Auto Lens Cover: Auto
 Assignable Dial: N/A
 S/S & Zoom button on LCD: Yes

Optics/Lens

35mm Equivalent: 49 - 735mm (4:3 Camera Mode), 40 - 600mm (16:9 Camera Mode)
 Aperture: F1.8-2.6
 Exposure: Touch Panel
 Filter Diameter: 30mm
 Focal Distance: 3.1 - 46.5mm
 Focus: Full range auto / Manual (Touch Panel)
 Progressive Shutter Mode: Yes
 Shutter Speed: Auto, 1/30 - 1/250 (Scene Selection Mode)
 Optical Zoom: 15x
 Digital Zoom: 180x
 Lens Type: Carl Zeiss® Vario-Sonnar® T

Power

Power Consumption: 4.2W/4.4W/4.5W (VF/LCD/VF+LCD)
 Battery Type: InfoLITHIUM® with AccuPower™ Meter System (NP-FH60)
 Power Requirements: 7.2V (battery pack); 8.4V (AC Adaptor)

Service and Warranty Information

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

Software

Operating System Compatibility: Microsoft® Windows® 2000 Professional, XP Home, XP Professional, Windows Vista
 Supplied Software: Picture Motion Browser Ver.3.0.00

Dimensions

Weight: 1 lb 3 oz (560g) with Battery
 Measurements: 2 3/8 x 3 3/4 x 5 3/8 inch (58 x 93 x 134mm)

Supplied Accessories

Power Adapter/In-Camera Charger (AC-L200)
 InfoLITHIUM® Rechargeable Battery (NP-FH60)
 Remote Commander® Remote Control (RMT-835)
 Component Video Cable
 Multi A/V Cable (Stereo)
 Application CD-ROM w/ Driver
 USB Cable
 Enjoy Handycam DVD

UPC Code: 02724272731



1. Viewable area measured diagonally.
2. Camcorder captures high definition footage in the AVCHD™ format. Using the enclosed PC software, high definition footage can be copied onto DVD media. However, DVD media containing AVCHD footage should not be used with DVD based players or recorders, as the DVD player/recorder may fail to eject the media and may erase its contents without warning. DVD media containing AVCHD footage may be played on a compatible Blu-ray Disc™ player/recorder or other compatible device.
3. DVD media/formats are not universally compatible.
4. HD viewing requires a Sony HD connector cable or HD Cyber-shot Station® cradle and HDTV. All sold separately.
5. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE1394 connection. The i.LINK connection may vary depending on the software applications, operating system and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other.
6. Not all products with USB connectors may communicate with each other due to chipset variations.
7. Actual battery life will vary based on product settings, usage patterns, battery and environmental conditions.
8. Compatible BRAVIA® HDTV and special TV settings are required. Further details are available in the BRAVIA® TV instruction manual.
9. 8GB means 8 billion bytes. Available storage capacity may vary and a portion of the memory is used for data management functions.
10. Requires BRAVIA Sync feature in each product. Please refer to owner's manual to determine compatibility.

©2007 Sony Electronics Inc. All rights reserved.
 Reproduction in whole or in part without written permission is prohibited. Sony, Clear Photo, ClearVid, Handycam, i.LINK, InfoLITHIUM, like.no.other, Memory Stick Duo, Memory Stick PRO Duo, NightShot, Remote Commander and SteadyShot are trademarks of Sony. Carl Zeiss and Vario-Sonnar are trademarks of Carl Zeiss. HDMI is a trademark of HDMI Licensing LLC. All other trademarks are property of their respective owners.
 Features and specifications subject to change without notice. Non-metric weights and measures are approximate and may vary.
 Screen Images Simulated

Please visit the Dealer Network for more information at
www.sony.com/dn