The HDR-UX20 delivers the ultimate in flexibility with the ability to record high definition video to DVD media, internal flash memory, or removable Memory Stick Duo™ media. The ClearVid™ CMOS sensor (with Exmor™ technology) and BIONZ™ image processor also lets you shoot 4 megapixel still images.

- **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 Duo™ 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 8GB 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" Wide (16:9) Hybrid Touch Panel Clear Photo LCD Plus™ Display (211K Pixels)**
  The 2.7" Wide (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 providing 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™ formats¹, 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 playback in most DVD Players (SD), computers, Blu-ray Disc™ players, and even PlayStation® 3 video game consoles. DVD-R/RW/R+RW and +R DL (Dual Layer) Compatible² Compatibility with a variety of DVD formats allows the ease-of-use and simplicity found in DVD media. With DVD 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...
**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 = up to 15 min., HO = up to 30 min., LP = up to 55 min. Standard Definition: (Single Layer/Dual Layer) HQ = up to 20 min., SP = up to 55 min., LP = up to 110 min. When using 8GB Memory Stick PRO Duo™ Media (sold separately): High Definition: HQ = up to 55 min., SP = 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: HQ = 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.
- Accessory Shoe: Yes (Active Interface Shoe)
- White Balance: Auto, Outdoor, Indoor, One-touch (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), 15 lux (Auto Slow Speed)
- Face Detection: Yes
- Hybrid Plus: Yes
- Quick On: Yes
- Dual Record: Yes

**Convenience Features**

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

**Video**

- Format(s) Supported: HD: MPE4, AVCHD/H.264; SD: MPEG2
- Video Signal: NTSC color, BA standards

**Video Features**

- PhotoTV HD: Yes
- Analog Audio/Video Output(s): Included (via A/V Remote Terminal)
- Digital Audio/Video Output(s): Yes (via USB)
- Component Video Output(s): Included (via A/V Remote Terminal)
- S/Video Output(s): Available via A/V Remote (cable not included)
- HDMI™ Cord: Yes
- Audio/Video Remote Terminal: Yes

**Display**

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

**Hardware**

- Viewfinder: Color Wide 16:9 (123K Pixels)
- 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: 1/50 - 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 (VFL LCD/FH-LCD)
- Battery Type: InfoLITHIUM® with AccuPower™
- Power Consumption: 7.2V (battery pack); 8.4V (AC Adapter)

**Service and Warranty Information**

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

**Software**

- Supplied Software: Picture Motion Browser Ver.3.000

**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 (RM-TBS9)
- Component Video Cable
- Multi A/V Cable (Stereo)
- Application CD-ROM w/ Driver USB Cable
- Enjoy Handycam DVD
- UPC Code: 027422772731

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

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1. Viewable area measured diagonally.
2. Camera captures a high-definition frame in the AVCHD™ format. Using the encodable 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 with cable and HDTV. All sold separately.
5. LUMIX is a trademark of Panasonic. LUMIX TV instruction manual. The LUMIX connection may vary depending on the software applications, operating system and compatible LUMIX devices. All products with an LUMIX 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 depending on product setting, usage patterns, battery and environmental conditions.
8. BRAVIA Sync™ and HD TV settings are required. Further details are available in the BRAVIA TV Instruction manual.
9. BD streams 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 for compatibility.