

HDR-PJ50V

Share your memories virtually anywhere using the HDR-PJ50V Handycam® camcorder's built-in, high-contrast projector. This mobile theatre can project up to a 60" (diag.) image on any flat surface, and with powerful stereo speakers, you'll hear all the action. Record your 1920x1080/60p/24p Full HD video for film-like videos.

- **1920x1080 Full HD 60p/24p Recording w/7MP still image**
The Sony® HDR-PJ50V offers 1920 x 1080 high definition resolution letting you record your memories in exceptional Full High Definition quality. Capable of 60p recording and playback via HDMI™ (cable sold separately) and compatible HDTV providing stunning clarity and incredibly detailed and smoother playback of your memories. If you're looking for a film-like quality look to your video, 24p recording is available for you.
- **220GB Hard Disk Drive for up to 91 hours of recording¹**
The built-in 220GB¹ Hard Disk Drive can record and store up to 91 hours of high definition video footage (LP mode).
- **Built-in High-Contrast Projector**
The high-contrast projector built-in to the LCD panel gives you the freedom to share your favorite memories virtually anywhere. Powerful enough to project up to a 60" diagonal screen, this small mobile theater packs a powerful punch. Combined with advanced Clear Phase stereo speakers, your memories will come alive for you and those you're sharing with.
- **Wide Angle G lens to capture everything you want**
Experience the pinnacle of Sony® lens technology with the professional-quality G Lens. Engineered for superior optical performance, Sony G lenses deliver brilliant, accurate color reproduction and sharp, amazingly detailed images. In addition, the 27.4mm focal length in Photo Mode and 29.8mm in Video Mode offers a broader perspective for enhanced wide angle shooting.
- **Back-illuminated "Exmor R" CMOS sensor for superb low-light video**
Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated "Exmor R" CMOS sensor. Designed for compact cameras and camcorders, the "Exmor R" sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions.
- **Optical SteadyShot™ image stabilization w/ Active Mode**
Optical SteadyShot™ image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth video from wide angle to full telephoto shooting. In addition, innovative 3-Way Shake-Canceling adds electronic roll stability for even smoother video capture.
- **3.0" touch-screen Clear Photo LCD Plus™ display (230K)**
The 3.0" Clear Photo LCD Plus™ screen displays sharp, bright, vivid images, letting you compose a shot more easily -- even outdoors, while enabling you to change settings to best represent the scene.
- **17x Extended Zoom to get even closer to the action**
Extended Zoom works in conjunction with 12x optical zoom to get even closer to the action while maintaining HD image quality.
- **Tracking Focus follows selected subjects**
Tracking Focus works as an extension of Face Detection to allow you to select an object with a touch of the LCD and have the focus follow the selected object.
- **5.1ch Surround mic for vivid and dynamic surround sound.**
Dolby® Digital 5.1 channel recording captures active sounds coming from all directions, so you can experience your home movies the way you experienced them while recording.
- **Wind noise reduction for clear voice recording**
Wind Reduction reduces noise and interference that is produced when wind passes over the microphone, giving you a clearer and more enjoyable sound experience.
- **Expanded recording/monitoring with mic/headphone jack**
Features dedicated mic and headphone inputs for expanded audio recording options and convenient monitoring of audio with headphones (external microphones and headphones sold separately).
- **Active Interface Shoe to attach intelligent accessories**
The Active Interface Shoe lets you mount Intelligent Accessories, such as external lights and microphones, which can help extend the capabilities of your camcorder.

ADDITIONAL FEATURES

- **Event Browse** groups photos/videos for you for easy reference
- **Highlight Playback** creates movies with transitions for you
- **Clear Phase stereo speakers** for true and dynamic sound
- **Geotagging** with built-in GPS receiver & NAVTEQ® maps⁷
- **Direct Copy** to external HDD without PC¹³
- **Built-in USB cable** for easy file transfer/charge
- **Intelligent Auto** (90 different scene combinations possible)
- **Golf Shot**
- **Built-in Flash**



HDR-PJ50V

Specifications

Convenience Features

Multiple Language Display: English; Simplified English; Brazilian Portuguese; Canadian French; Latin American Spanish
Manual / Auto Lens Cover: Auto
Quick On: Yes (Power On by LCD)
S/S & Zoom button on LCD: Yes (Touch Panel)
Fader Effect(s): White / Black
Red-Eye Reduction: Yes (On / Off)
Media / Battery Indicator: Yes (recordable time, free and used media space) / Yes (recordable time, remaining capacity)
Power Save Mode: Auto Shut-off (5 minutes)
Still Image Playback Options: Slide Show; Playback Zoom (1.1x-5x) (Touch Panel + Zoom Lever)
Date / Time Stamp: Yes (Rec Date and Time, Camera info, Coordinates)
Erase / Protect: Yes / Yes
Video Playback Options: Highlight Playback (HD Movie Only); Highlight Playback Save and Share (Translate into STD quality); Highlight Scenario (Save/Playback/Erase); Highlight BGM (Preinstalled 4 music files, Music transfer)
Built-in USB Cable: Yes (USB Charge Available)
Easy Handycam/Help Function: -/-
One Touch Disc Burn: Yes (Menu)
View & Index: Event / MAP

Inputs and Outputs

HD Output: HDMI Out (mini) (sold separately); Component Video Out (Component A/V cable (supplied))

Optics/Lens

Aperture: F1.8-F10.0
Filter Diameter: 30mm
Focal Distance: f = 2.9mm - 34.8mm
Optical Zoom: 12x
Digital Zoom: 160x
Lens Type: G Lens™
Focal Length (35mm equivalent): Photo Mode: 29.8mm - 357.6mm (16:9), 27.4mm - 328.8mm (4:3); Movie Mode: 29.8mm - 357.6mm (16:9), 36.5mm - 438mm (4:3)
Minimum Focus Distance: Approx. 1cm (Wide), Approx. 80cm (Tele), Approx. 25cm (Tele Macro)
Lens Stabilization: Optical SteadyShot™ Image stabilization w/ Active mode (Wide to Tele)
Extended Zoom: 17x
SteadyShot Mode: Active: 31.2mm - 531mm (16:9), 38.2mm - 650mm (4:3)

Power

Battery Type: InfoLITHIUM™ with AccuPower™ Meter System (V Series)
Power Requirements: 7.2V (battery pack); 8.4V (AC Adaptor)

Software

Supplied Software: PMB Ver.5.00 Supports Windows XP Service Pack3 (SP3) (32bit), Windows Vista Service Pack2 (SP2) (32bit/64bit), Windows 7. Not supported by Mac OS.

LCD Display

LCD Type: 7.5cm (3.0 type) Clear Photo LCD™ PLUS display (230K) (16:9)
Angle Adjustment: Opening Angle: max.90 deg., Turning Angle: max.270 deg.
Brightness Control: Yes (LCD Backlight Level, LCD Bright)
Coverage: 1
Grid Display: Guide Frame
Live View: Yes
Touch Panel: Yes

Advanced Features

Face Detection: Yes
Image Stabilization: Optical SteadyShot™ Image stabilization w/ Active mode (Wide to Tele)
x.v.Color™ : Yes
Smile Shutter™ technology: Dual Capture / Always On / Off
Intelligent Auto: Portrait / Baby / Walk / Tripod / Backlight / Landscape / Spotlight / Twilight / Macro / Low light
Embedded GPS: Yes (Current Position Display (Your Location))
Golf Shot: Yes
Audio Level Display: Yes
Smooth Slow Rec: Yes
Priority Setting (for Face Detection): Auto / Child Priority / Adult Priority
S-Master: Yes

Recording

Video Actual (Pixel): Approx. 2650K pixels (16:9), Approx. 1990K pixels (4:3)
Dual Record: 5.3 megapixels 16:9 (3072 x 1728); 4.0 megapixels 4:3 (2304 x 1728)
Photo Capture from Movie: 2.1 megapixels 16:9 (1920x1080); 307K pixels 4:3 (640x480); 230K pixels 16:9 (640x360)
Audio Format: Dolby® Digital 5.1ch, Dolby® Digital 5.1 Creator; Dolby Digital 2ch Stereo, Dolby® Digital Stereo Creator
Microphone / Speaker: Built-in Zoom Microphone; Linear Phase Stereo Speaker
Still Image Max Effective Resolution: 7.1 megapixels
Still Image Mode: JPEG
Video Format: HD: MPEG4-AVC/H.264 AVCHD format compatible (1080/60p: original format); STD: MPEG2-PS
Video Signal: HD: HDTV 1080/60p, 24p, 60i; STD: NTSC color, EIA standards
Video Mode: HD PS: Approx. 28Mbps / FX: Approx. 24Mbps / FH: Approx. 17Mbps / HQ: Approx. 9Mbps / LP: Approx. 5Mbps; STD HQ: 9Mbps
Media Type: Internal HDD; Memory Stick PRO Duo™ ; Memory Stick PRO Duo™ (High Speed); Memory Stick PRO Duo™ (Mark 2); Memory Stick PRO-HG™ ; SD/SDHC/SDXC Memory Card (Class 4 or Higher)
Recording and Playback Times: HD PS: Approx. 18h10m (Approx. 18h10m); HD FX: Approx. 21h30m (Approx. 21h30m); HD FH: Approx. 29h20m (Approx. 29h20m); HD HQ: Approx. 52h10m (Approx. 39h30m); HD LP: Approx. 91h50m (Approx. 74h50m); STD HQ: Approx. 54h30m (Approx. 50h 10m)
Video Resolution: HD: 1920x1080/60p, 24p, 60i (FX, FH), 1440x1080/60i (HQ, LP); STD: 720x480/60i
Mic Level Control: Yes (2 steps)
Still Image File Format: DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Still Image Size (Photo Mode): 7.1 megapixels 4:3 (3072x2304); 5.3 megapixels 16:9 (3072x1728); 1.9 megapixels 4:3 (1600x1200); 307K pixels 4:3 (640x480)
Wind Noise Reduction: Yes (Off / On (Advanced reduction))
Wind Position: Yes (Auto)
Internal Media: HDD 220GB¹ (HDD Smart Protection)

Exposure System

Minimum Illumination: Standard: 11 lux (1/60 Shutter Speed); Low Lux: 3 lux (1/30 Shutter Speed)
Exposure Settings: Auto; Flexible Spot (Touch Panel)
D-Range Optimizer: Yes
Scene Mode(s): Auto / Twilight / Twilight Portrait / Sunrise & Sunset / Fireworks / Landscape / Portrait / Spotlight / Beach / Snow
White Balance Mode: Auto / Onepush / Outdoor / Indoor
Exposure Compensation: AE Shift (Touch Panel)
Metering Modes: Multi-segment / Spot
Noise Reduction: Yes
Auto Iris Control: F1.8 - F10.0
Backlight Compensation: Yes (Auto)
Gain Control: Auto
LOW LUX Mode: Yes

Interface

Accessory Shoe: Yes (Active Interface Shoe)
Direct Copy: Yes
BRAVIA® Sync™ : Yes
SD Output: Composite Video Out (A/V connecting cable (supplied)); Component Video Out (Component A/V cable (supplied)); S Video Out (A/V connecting cable with S Video (sold separately))
USB Port(s): Type-A, mini-AB/USB2.0 Hi-speed (mass-storage/MTP)
Headphone Jack: Stereo Minijack
Microphone Input: Stereo Minijack
Memory Card Slot: Memory Stick PRO Duo™ and SD/SDHC/SDXC compatible
Remote Commander: Yes
Remote Jack: integrated into A/V Remote terminal
DVD Direct: Yes (DVD Direct Express, DVD Writer supported (sold separately))
A/V Remote Terminal: Video / S Video / Audio / Remote
DC IN: Yes
HDMI Terminal: Yes (mini)

Imaging Sensor

Processor: BIONZ™ Image processor
Effective Picture Resolution: Approx. 2650K pixels (16:9) Approx. 1990K pixels (4:3)
Imaging Sensor: 1/4" (4.5mm) Back-illuminated "Exmor R" CMOS Sensor
Pixel Gross: Approx. 4200K pixels
Color Filter System: ClearVid™ array

Flash

Flash Type: Built-in Flash

Flash Coverage: Approx. 0.3m - 1.5m
Flash Modes: Auto / Forced / Prohibited
Flash Compensation: Yes (3 steps)
Flash Metering System: Pre-flash TTL

Focus Control

Focus System: Contrast AF
AF Modes: Auto / Manual (Touch Panel)
Focus Area: Full range Focus / Spot Focus
Focus Features: Tracking Focus
AF Illuminator: Yes

Dimensions

Measurements: Approx. 2.5/8" x 2.5/8" x 5.1/8" (64mm x 66mm x 128mm)

Supplied Accessories

Rechargeable Battery Pack (NP-FV50) (1)
AC adaptor (AC-L200) (1)
Power Cord (1)
Component A/V Cable (1)
A/V Connecting Cable (1)
USB Connection Support Cable (1)
CD-ROM ("Handycam" Application Software) (1)
Remote Commander (RMT-835 with Battery (CR2025)) (1)
Operating Guide (1)

Optional Accessories

Rechargeable InfoLITHIUM Batteries (NP-FV50 / FV70 / FV100)
AC Adaptor/Charger for H series batteries (AC-VQV10)
Travel Charger (BC-TRV)

Color: (B)Black

1. 220GB equals 220 billion bytes. A portion of the total storage is used for system management and/or application files. Actual Capacity is approximately 219GB after removing 300MB demo video.
2. 4. HD viewing requires compatible HDTV and HDMI™ cable, both sold separately.
3. NAVTEQ® map detail on the camcorder is limited in some areas. By using a compatible PC, a broadband internet connection, and supplied Picture Motion Browser software, your photos and videos can be shown on an online map service. The online map service is currently provided courtesy of Google, and is subject to change or termination without notice.
4. Requires Microsoft® Windows® XP SP3 / Windows Vista® SP2 / Windows 7. Not supported by Mac® OS.
5. Requires VMCUAM1 cable (sold separately), AC power for camcorder, and hard drive formatted in FAT-32. USB-hub not supported. External HDD/USB media should be less than 2TB (Terabytes).

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