

# SONY

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## HDR-PJ810/B

### Full HD 60p/24p Camcorder w/ advanced Manual Controls

Capture special occasions in the stunningly-sharp, 24p/60p HD they deserve with silky-smooth Balanced Optical SteadyShot™ image stabilization that keeps your memories looking their best. You can also share your family's special moments up to 200" with the built-in projector for an instant at-the-movies feel. Feeling artistic? Manual control of iris, shutter and more let you express your personal style.



### Key Features

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#### 1920x1080 Full HD 24p/60p w/24.5MP Exmor R® CMOS Sensor

Create cinematic video in high definition 1920 x 1080 24p/60p and high quality 24.5MP still images. 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® CMOS 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.

#### Balanced Optical SteadyShot™ image stabilization

On standard Optical SteadyShot™ camcorders a single "shift lens" is moved in the optical block to offset camera shake. Balanced Optical SteadyShot™ w/ Active Mode moves the entire optical block at once, maintaining the integrity of the optical path and reducing shake. It also reduces vignetting (light falloff towards the edge of a scene) and lowers distortion in videos and still photos.

#### Project ~200" videos w/ 50lm built-in projector via HDMI®

Enjoy your favorite memories virtually anywhere with the high-contrast 50 lumen projector built-in to the LCD panel. The HDMI® multi-terminal allows you to connect external devices that have an HDMI output (smartphones, laptops, tablets, etc.) and use the camcorder's projector to enjoy other forms of entertainment such as video games and streaming videos from the Internet. The camcorder even has built-in Auto Keystone Adjustment, which corrects the dimensions of the projected image when you cannot situate the device straight on to the wall.

#### Manual Control (Iris/Shutter/Exposure/White Balance)

Get the most out of your camcorder with enhanced manual controls. The assignable dial allows for control of focus, exposure, white balance, iris, and shutter speed.

#### Wireless control, transfer, data backup via Wi-Fi®/NFC¹

Built-in Wi-Fi®/NFC makes for easy one touch connection to compatible mobile devices¹. Turn your mobile phone and/or tablet into a remote control/viewing device, transfer your files to your mobile device wirelessly for instant sharing. Back up your data on your PC and even enjoy your videos and photos on a TV without wires.

#### Wide Angle G lens to capture more of what 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 26.8mm focal length in Photo and Video Modes offers a broader perspective for enhanced wide angle shooting.

#### Color EVF (0.27" 201K) crisp clear video monitoring

A color EVF (electronic view finder) provides clear crisp representation of your video allowing for proper framing, battery conservation, and increased stability.

#### 3.0" Xtra Fine LCD™ display (921K) touch screen w/ WhiteMagic™

The 3.0" (16:9) Xtra Fine LCD™ screen (921K) 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. Easily scroll through menus and view footage thanks to WhiteMagic™ technology that dramatically increases visibility in bright daylight. The large display delivers brilliant-quality still images and movies while enabling easy focusing operation.

#### 5.1ch surround sound mic w/ new audio record controls

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. Premium sound features such as Auto Wind Noise Reduction and Premium Closer Voice make it even easier to attain ideal sound quality in various situations.

## Get creative w/ 7 picture effects for video and still photos

Picture Effects add a new level of expression and creativity to video and photos. Seven picture effects (Toy Camera, Pop Color, Soft High Key, Partial Color, Retro Photo, High Contrast Monochrome, and Posterization) are available in both photo and video modes. Shooting with these special modes will provide you an easy way to instantly transform your memories without any post editing software needed.

## Up to FPO hours of recording with 32GB embedded Flash Memory

The built-in 32GB embedded Flash memory can record and store up XX hours XX minutes of high definition video footage (HD LP mode).

## Specifications

Camera	
Camera Type	Digital HD Video Camera Recorder w/ Projector
Imaging Sensor	
Imaging Sensor	1/3.95" (4.6mm) back-illuminated Exmor R® CMOS Sensor
Processor	BIONZ® X image processor
Pixel Gross	Approx.6590K pixels
Effective Picture Resolution	Approx.6140K pixels(16:9)/Approx.4600K pixels(4:3)
Color Filter System	ClearVid™ array
Recording	
Media Type	Internal Memory, Memory Stick Micro and Micro SD/SDHC/SDXC compatible
Still Image Mode	JPEG
Still Image Max Effective Resolution	24.5 megapixels
Still Image Size 16:9	Movie Mode: 20.0 megapixels 16:9 (5024 x 2824); Photo Mode: 20.0 megapixels 16:9 (5024 x 2824)
Still Image Size 4:3	Photo Mode: 18.4 megapixels 4:3 (4960x3712)
Video Mode	HD: MPEG4-AVC/H.264 AVCHD 2.0 format.compatible; STD: MPEG2-PS; MP4: MPEG-4 AVC/H.264
Video Resolution	HD:1920x1080/60p(PS),24p(FX,FH),60i(FX,FH), 1440x1080/60i(HQ,LP)
Video Actual (Pixel)	Approx.6,140K pixels(16:9)
Video Signal	HDTV, NTSC color, EIA standards
Recording and Playback Times (in Internal Media)(2ch)	HD PS: 2h30m; HD FX: 2h35m; HD FH: 3h25m; HD HQ: 5h25m; HD LP: 7h55m; (Times are approximate; max time)
Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080)
Dual Record	Yes
Audio Format	Dolby® Digital 5.1ch, Dolby® Digital 5.1Creator; Dolby® Digital 2ch Stereo, Dolby® Digital Stereo Creator;MPEG-4 AAC-LC 2ch
Microphone/Speaker	Built-in Zoom Microphone; Monoroal Speaker
Dual Video Recording	Yes
Internal Media	Flash Memory 32GB
Mic Level Control	Yes (31steps)
Movie Recording Rate(Average Bit Rate/VBR)	HD PS:Approx.28Mbps/FX:Approx.24Mbps/FH:Approx.17Mbps/HQ:Approx.9Mbps/LP:Approx.5Mbps;MP4: Approx.3Mbps
Recording and Playback Times (in Internal Media)(5.1ch)	HD PS: 2h35m; HD FX: 2h40m; HD FH: 3h30m; HD HQ: 5h30m; HD LP: 8h0m; (Times are approximate; max time)
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Wind Noise Reduction	Yes (On/off)
Optics/Lens	

Lens Type	G™ Lens
Lens Stabilization	Balanced Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Aperture	F1.8-F3.4
Optical Zoom	12x
Digital Zoom	160x
Focal Length (35mm equivalent)	Movie Mode: 26.8-321.6mm (16:9); Photo Mode: 26.8-321.6mm (16:9), 32.8-393.6mm (4:3)
Minimum Focus Distance	Approx.1cm(Wide),Approx.80cm(Tele) (13/32inch-31 1/2Inch)
Clear Image Zoom	24x
<b>Viewfinder</b>	
Type	0.2" (0.5cm) / Color 201,600dots equivalent
Field of View	1
Touch Panel	Yes
<b>LCD Display</b>	
LCD Type	3.0" Xtra Fine LCD™ display (460K) touch screen
Angle Adjustment	Opening Angle: max.90 deg., Turning Angle: max.270 deg.
Brightness Control	Yes (Menu)
Coverage	100%
Grid Display	Grid Line
<b>Focus Control</b>	
Focus System	Contrast AF
AF Modes	Auto / Manual (Touch Panel / Dial)
Focus Area	Full range Focus / Spot Focus
Manual Focus Assist	Magnified display for precise manual focus; Peaking Display
Focus Features	Tracking Focus
<b>Exposure System</b>	
Metering Modes	Multi-segment / Spot
Exposure Compensation	AE Shift (Dial / Touch Panel)
Exposure Settings	Auto; Flexible Spot (Touch Panel); Manual (Dial / Menu)
Scene Mode(s)	Auto / Twilight / Twilight Portrait (Photo Mode only) / Sunrise / Sunset / Fireworks / Landscape / Portrait / Spotlight / Beach / Snow
D-Range Optimizer	Yes
Noise Reduction	Yes
White Balance Mode	Auto / Onepush / Outdoor / Indoor
Minimum Illumination	Standard: 6 lux (1/60 Shutter Speed); Low Lux: 3 lux (1/30 Shutter Speed)
Auto Iris Control	F1.8 - F10
Backlight Compensation	Yes (Auto)
Gain Control	Auto
LOW LUX Mode	Yes
Manual Exposure Assist	Zebra Pattern Display
Manual Iris Control	F1.8 - F10
WB Shift	Yes
<b>Drive System</b>	
Drive Mode	Photo Mode: Single-shot / Self-timer
Self-timer	Approx. 10sec. (Still Image / Golf Shot)
Shutter Speeds	Shutter Speed(Standard): 1/60 - 1/10000; Shutter Speed (Auto Control Range) 1/8 - 1/10000; Shutter Speed(Manual Iris Control) 1/60 - 1/10000; Shutter Speed(Manual Shutter) 1/8 - 1/10000; Shutter Speed(Smooth Slow Rec): 1/250 - 1/10000
<b>Flash</b>	

Flash Coverage	Approx.11 7/8 inch-59 1/8 inch (Approx.30cm-150cm)
<b>Convenience Features</b>	
Manual / Auto Lens Cover	Auto
S/S Zoom button on LCD	Yes (Touch Panel)
Self Timer	Yes
Red-Eye Reduction	Yes (On/Off)
Fader Effect(s)	White / Black
Date / Time Stamp	Yes (Rec Date and Time, Camera info)
Erase/Protect	Yes / Yes
Media/Battery Indicator	Yes (recordable time, free and used media space) / Yes (recordable time, remaining capacity)
Power Save Mode	Yes
Still Image Playback Options	Slide Show
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)
Multiple Language Display	English; Brazilian Portugese; Canadian French; Spanish
Picture Effects	Yes
Remote Control	Yes
Self Recording	Yes
<b>Advanced Features</b>	
Assignable Dial	Yes (Focus / Exposure / Iris / Shutter Speed / AE Shift / WB Shift Set)
AGC Limit	Yes
Airplane Mode	Yes
Audio Level Display	Yes
CinemaTone Gamma/Color	Yes
Face Detection	Yes
Golf Shot	Yes
Image Stabilization	Balanced Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Intelligent Auto	Portrait / Baby / Walk / Tripod / Backlight / Landscape / Spotlight / Twilight / Macro / Low light / Auto Wind Noise Reduction
My Voice Canceling	Yes
NightShot® Infrared System	Yes
Premium Closer Voice	Yes
Priority Setting (for Face Detection)	Auto/OFF
S-Master	Yes
Smile Shutter™ technology	Dual Capture / Always On / Off
Smooth Slow Rec	Yes
Wi-Fi	Built-In (Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band))
Wi-Fi Functionality	Remote control with mobile device, send to smartphone, send to PC (with optional wi-fi accessory)
x.v.Color™	Yes
<b>Interface</b>	
Memory Card Slot	Memory Stick Micro and Micro SD/SDHC/SDXC compatible
NFC	Yes
Wi-Fi	Yes
SD Output	Composite Video Out (AV CABLE (sold separately))
HD Output	HDMI Out (micro)(supplied)
USB Port(s)	TypeA (built-in) / USB2.0 Hi-speed (mass-storage/MTP)

BRAVIA® Sync™	Yes
PhotoTV HD	Yes
Headphone Jack	Stereo Minijack
Microphone Input	Stereo Minijack
Direct Copy	Yes
Accessory Shoe	Yes (Multi Interface Shoe)
DC IN	Yes
HDMI Terminal	Yes (HDMI micro)
Projector Input	Yes (HDMI micro)
<b>Weights and Measurements</b>	
Dimensions (Approx.)	Approx.2 3/4inch (W) x 2 7/8inch(H)x 5 3/8inch (D) (Approx.67.5mm x 72.5mm x 134mm)
Weight (Approx.)	Approx.1lb (Approx.460g) Main Unit Only
<b>Power</b>	
Power Consumption (in Operation)	Viewfinder: HD:2.9W; LCD: HD:3.1W
Power Requirements	6.8V/7.2V (battery pack); 5.0V (AC Adapter)
Battery Type	InfoLITHIUM® with AccuPower™ Meter System (V Series)
<b>Software</b>	
Supplied Software	PC: PlayMemories Home and Music Transfer (via download); MAC: Music Transfer, PlayMemories Online Uploader, Wireless Auto Import (by download)
Operating System Compatibility	Windows XP SP3 /Windows Vista SP2 /Windows7 64-bit editions and Starter (Edition) are not supported. The Windows Image Mastering API (IMAPI) Ver. 2.0 or later is required to use the function for creating discs. Starter (Edition) are not supported. Standard installation is required. Operation is not assured if the above OS has been upgraded or in a multi-boot environment.
<b>Service and Warranty Information</b>	
Limited Warranty Term	Limited Warranty --- 1 Year Parts; 90 Days Labor
<b>Accessories</b>	
Supplied Accessories	Rechargeable Battery Pack (NP-FV50) (1) USB AC adapter(1) HDMI(micro) Cable (1) USB Connection Support Cable (1) Operating Guide (1) Step Down Ring (1) Remote Commander(RMT-835 with Battery(CR2025)) (1)