

## HDR-PJ380/R

HD Camcorder w/ Projector

Shoot anywhere in Full HD 60p and enjoy it instantly with the built-in projector. Get up close with 30x zoom while keeping things shake-free with Optical SteadyShot™ image stabilization. For even more entertainment options, it also easily connects to your tablet, phone or laptop via HDMI and lets you project video up to 100" diagonally on any wall.



### Key Features

#### **1920x1080 Full HD 24p/60p w/8.9MP Exmor R® CMOS Sensor**

Create cinematic video in high definition 1920 x 1080 24p/60p and high quality 8.9MP 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.

#### **Project everything from home movies to streaming video.**

Enjoy your favorite memories virtually anywhere with the high-contrast 13 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 more of your memories than what you capture on the camcorder itself. This puts a new and fun spin on family movie night, game day and adds convenience to the traveling professional who can project presentations on the fly.

#### **Up to 6hr 25min recording with 16GB<sup>1</sup> embedded Flash Memory**

The built-in 16GB<sup>1</sup> embedded Flash memory can record and store up to 6 hours 25 minutes of high definition video footage (HD LP mode).

#### **55x Extended Zoom to get even closer to the action**

Extended Zoom works in conjunction with 30x optical zoom to get even closer to the action while maintaining HD image quality.

#### **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" wide Clear Photo Plus™ LCD (230k) touch screen**

The 3.0" (16:9) Clear Photo Plus™ LCD touch screen (230K) 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. Use the touchscreen to select faces and objects to keep in focus and monitor levels of exposure while you record.

#### **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.

#### **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).

#### **AVCHD for highest quality or MP4 for optimized video**

Select between HD video in the AVCHD or MP4 format for highest quality or easy transfer and sharing.

AVCHD provides premium video that can be enjoyed on large screen HDTVs, and is ideal for capturing precious memories at special occasions, family vacations and other moments you want to treasure for a lifetime. MP4 is great for those moments that you want to quickly share on your social networks or store on the cloud.

### **Tracking Focus follows selected subjects in/out of the frame**

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, even if it leaves the frame and returns.

### **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.

### **Closer Voice (with Face Detection)**

When the camcorder's Face Detection technology identifies people in a scene, an Advanced Acoustic Processor automatically reduces background noise, resulting in recorded voices with outstanding clarity and intelligibility.

### **Highlight Playback creates movies with transitions for you**

Why spend hours editing your movies when you can let your camcorder do it for you? Highlight Playback identifies and compiles key scenes into a short, entertaining movie complete with music and transitions. You can even pinpoint the exact scene you want to include in the highlight reel.

### **Direct Copy to external HDD without PC<sup>13</sup>**

Store your memories in a whole new way with the ability to copy videos from your camcorder directly to an external hard disk drive<sup>13</sup> (sold separately), all without a computer. Your camcorder can also access videos stored on the external hard drive for playback on your HDTV<sup>4</sup>, allowing you to utilize the camcorder's handy playback features.

### **Built-in USB cable for easy file transfer/charge**

The high-speed, built-in USB 2.0 cable allows for easy connection to your computer for charging or file transfer without having to remember separate cables. It also fits conveniently into the hand strap so it's out of the way until you need it. Charging your camcorder is faster than ever now through the USB; for every two minutes of charge time you get one minute of recording time.

### **Intelligent Auto (180 different scene combinations possible)**

Intelligent Auto mode goes a step beyond traditional auto modes by analyzing your shot and then automatically selecting the appropriate settings from ten distinct scene modes and wind noise reduction. There are 180 different combinations possible: Portrait, Baby, Walk, Tripod, Backlight, Landscape, Spotlight, Twilight, Macro, Low light, Auto Wind Noise Reduction. The camcorder utilizes an advanced sound processor and sophisticated noise reduction algorithms to reduce wind noise by up to 10db compared to other models. In addition to reducing low frequency noise, iAuto also suppresses mid- and upper-frequency noise, resulting in clearer, more enjoyable sound.

## **Specifications**

<b>Camera</b>	
<b>Camera Type</b>	Digital HD Video Camera Recorder w/ Projector
<b>Imaging Sensor</b>	
<b>Imaging Sensor</b>	1/5.8" (3.1mm) back-illuminated Exmor® R CMOS Sensor
<b>Processor</b>	BIONZ® image processor
<b>Pixel Gross</b>	Approx.2390K pixels
<b>Effective Picture Resolution</b>	Movie: Approx.2290K pixels(16:9) Still: Approx.2290K pixels(16:9)
<b>Color Filter System</b>	RGB primary color filters
<b>Recording</b>	

Media Type	Internal Flash Memory; Memory Stick PRO Duo™ (Mark 2);Memory Stick PRO-HG Duo™;Memory Stick XC-HG Duo™;SD/SDHC/SDXC Memory Card(Class 4 or Higher)
Still Image Mode	JPEG
Still Image Max Effective Resolution	8.9 megapixels
Still Image Size 16:9	Movie Mode: 8.9 megapixels 16:9 (3984x2240); Photo Mode: 8.9 megapixels 16:9 (3984x2240)
Still Image Size 4:3	Movie Mode:6.7 megapixels 4:3 (2992x2240); Photo Mode: 6.7 megapixels 4:3 (2992x2240)
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),60i(FX,FH), 1440x1080/60i(HQ,LP); STD:720x480/60i; MP4: 1280x720 30p
Video Actual (Pixel)	Approx.2290K pixels(16:9),Approx.1710K pixels(4:3)
Video Signal	HDTV, NTSC color, EIA standards
Recording and Playback Times (in Internal Media)(2ch)	HD PS: 1h15m; HD FX: 1h30m; HD FH: 2h0m; HD HQ: 3h40m; HD LP: 6h25m; STD HQ: 3h50m (Times are approximate; max time); MP4: 5hr25min
Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080); 0.3 megapixels 4:3 (640x480); 0.2 megapixels 16:9 (640x360)
Dual Record	8.9 megapixels 16:9 (3984x2240); 2.1 megapixels 16:9 (1920x1080)
Audio Format	Dolby® Digital 2ch Stereo, Dolby® Digital Stereo Creator; MPEG-4 AAC-LC 2ch
Microphone/Speaker	Built-in Zoom Microphone; Monoral Speaker
Internal Media	Flash Memory 16GB
Mic Level Control	Yes(2steps)
Movie Recording Rate(Average Bit Rate/VBR)	HD PS: 28Mbps / FX: 24Mbps / FH: 17Mbps / HQ: 9Mbps / LP: 5Mbps (Approx)
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Wind Noise Reduction	Yes(On/Off)
<b>Optics/Lens</b>	
Lens Type	G™ Lens
Lens Stabilization	Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Aperture	F1.8-F4.0
Optical Zoom	30x
Digital Zoom	350x
Focal Length (35mm equivalent)	Movie Mode: 26.8-804.0mm(16:9), 32.8-984.0mm(4:3); Photo Mode: 26.8-804.0mm(16:9), 32.8-984.0mm(4:3)
Minimum Focus Distance	Approx.1cm(Wide) ,Approx.80cm(Tele) ,Approx.37cm(Tele Macro)
Extended Zoom	55x
Focal Distance	f=1.9-57.0mm; f=3/32-2 1/4inch
Touch Panel	Yes
<b>LCD Display</b>	
LCD Type	3.0" (7.5cm) Clear Photo Plus™ LCD (230K) Wide (16:9)
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)
Focus Area	Full range Focus(All)/Spot Focus
Focus Features	Tracking Focus
<b>Exposure System</b>	
Metering Modes	Multi-segment/Spot

Exposure Settings	Auto; Manual(Menu); Flexible Spot(Touch Panel)
Scene Mode(s)	Auto/Night Scene/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(1/30 Shutter Speed); Low Lux:3 lux(1/30 Shutter Speed)
Auto Iris Control	F1.8 - F10
Backlight Compensation	Yes(Auto)
LOW LUX Mode	Yes
<b>Drive System</b>	
Drive Mode	Photo Mode:Single-shot/Self-timer
Self-timer	Approx.10sec.(Still Image)
Shutter Speeds	Shutter Speed(Standard): 1/30 - 1/10,000; Shutter Speed (Auto Control Range)
<b>Convenience Features</b>	
Manual / Auto Lens Cover	Auto
S/S & Zoom button on LCD	Yes(Touch Panel)
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; Spanish; Brazilian Portugese; Canadian French
Self Recording	Yes
View & Index	Event
<b>Advanced Features</b>	
Closer Voice	Yes
Face Detection	Yes
Image Stabilization	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
Priority Setting (for Face Detection)	Auto/Child Priority/Adult Priority
Smile Shutter™ technology	Dual Capture/Always On/Off
x.v.Color™	Yes
<b>Interface</b>	
Memory Card Slot	Memory Stick PRO Duo™ and SD/SDHC/SDXC compatible
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
Microphone Input	Stereo Minijack
Direct Copy	Yes
DC IN	Yes
HDMI Terminal	Yes (HDMI micro)

<b>Multi/Micro USB Terminal</b>	Yes
<b>Projector Input</b>	Yes (HDMI micro)
<b>Weights and Measurements</b>	
<b>Dimensions (Approx.)</b>	Approx.2 3/8inch x 2 1/4inch x 4 5/8inch (57.5mm x 57mm x 117mm)
<b>Weight (Approx.)</b>	Approx.7.4oz ((210g) Main Unit Only)
<b>Power</b>	
<b>Power Requirements</b>	6.8V/7.2V (battery pack); 8.4V (AC Adaptor)
<b>Battery Type</b>	InfoLITHIUM® with AccuPower™ Meter System (V Series)
<b>Software</b>	
<b>Supplied Software</b>	PC: PlayMemories Home Life (built-in; for PC only); PlayMemories Home (by download); Music Transfer(by download); MAC:Music Transfer(by download); PlayMemories Online Uploader(by download)
<b>Operating System Compatibility</b>	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>	
<b>Limited Warranty Term</b>	Limited Warranty --- 1 Year Parts; 90 Days Labor
<b>Weights and Measurements</b>	
<b>Dimensions (Approx.)</b>	Approx.2 3/8inch x 2 1/4inch x 4 5/8inch (57.5mm x 57mm x 117mm)
<b>Weight (Approx.)</b>	Approx.7.4oz ((210g) Main Unit Only); Approx.9.3oz(NP-FV50(supplied battery)); Approx.10.9oz(NP-FV70); Approx.14.4oz(NP-FV100)
<b>Accessories</b>	
<b>Supplied Accessories</b>	Rechargeable Battery Pack (NP-FV30) (1) AC adaptor (AC-L200) (1) Power Cord (1) HDMI(micro) Cable (1) USB Connection Support Cable (1) Operating Guide (1)

1. 1GB equals 1 billion bytes, a portion of which is used for data management functions

4. Requires HDTV and HDMI cable sold sep.

9. For PC: Requires Microsoft® Windows® XP SP3/ Windows Vista® SP2/Windows 7. For Mac: Requires Mac OSX (v10.5-10.7)

13. Requires via VMC-UJAM1 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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