



**Specifications**

Imaging Sensor	
Imaging Sensor	1/5.8" (3.1mm) back-illuminated Exmor® R CMOS Sensor
Processor	BIONZ® image processor
Pixel Gross	Approx.2390K pixels
Effective Picture Resolution	Movie: Approx.2290K pixels(16:9) Still: Approx.2290K pixels(16:9)
Color Filter System	RGB primary color filters
Recording	
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)
Optics/Lens	
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); Hightlight 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

#### Interface

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)
Multi/Micro USB Terminal	Yes

#### Weights and Measurements

Dimensions (Approx.)	Approx.2 1/8inch x 2 1/4inch x 4 5/8inch (53mm x 57mm x 117mm)
Weight (Approx.)	Approx.6.5oz ((185g) Main Unit Only)

#### Power

Power Requirements	6.8V/7.2V (battery pack); 8.4V (AC Adaptor)
Battery Type	InfoLITHIUM® with AccuPower™ Meter System (V Series)

#### Software

Supplied Software	PC: PlayMemories Home Lite (built-in; for PC only); PlayMemories Home (by download); Music Transfer(by download); MAC:Music Transfer(by download); PlayMemories Online Uploader(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.

#### Service and Warranty Information

Limited Warranty Term	Limited Warranty --- 1 Year Parts; 90 Days Labor
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#### Weights and Measurements

Dimensions (Approx.)	Approx.2 1/8inch x 2 1/4inch x 4 5/8inch (53mm x 57mm x 117mm)
Weight (Approx.)	Approx.6.5oz ((185g) Main Unit Only) Approx.8.1oz(NP-FV30(supplied battery)); Approx.8.4oz(NP-FV50); Approx. 10.0oz(NP-FV70); Approx. 13.5oz(NP-FV100)

#### Accessories

Supplied Accessories	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)
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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 OS X (v10.5-10.7)

13. Requires via VMC-UAM1 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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