



Specifications

Camera	
Camera Type	Digital HD Video Camera Recorder w/ Projector
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.2150K 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.2150K pixels(16:9),Approx.1610K pixels(4:3)
Video Signal	HDTV, NTSC color, EIA standards
Recording and Playback Times (in Internal Media)(2ch)	HD PS: 35m; HD FX: 45m; HD FH: 1h00m; HD HQ: 1h45m; HD LP: 3h10m; STD HQ: 1h50m (Times are approximate; max time); MP4: 2hr40min
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 8GB
Mic Level Control	Yes (2steps)
Movie Recording Rate(Average Bit Rate/VBR)	HD PS: 28Mbps / FX: 24Mbps / FH:17Mbps / HQ:9Mbps / LP: 5Mbps (Approx) STD HQ:9Mbps MP4: Approx.6Mbps
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Wind Position	Yes(Off/On)
Optics/Lens	
Lens Type	Carl Zeiss® Vario-Tessar® Lens
Lens Stabilization	SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Aperture	F1.9-F4.0
Optical Zoom	27x

Digital Zoom	320x
Focal Length (35mm equivalent)	Movie Mode: 29.8-953.6mm(16:9),36.4-1164.8mm(4:3); Photo Mode: 29.8-804.0mm(16:9), 36.4-984.0mm(4:3)
Minimum Focus Distance	Approx.1cm(Wide) ,Approx.80cm(Tele) ,Approx.37cm(Tele Macro)
Extended Zoom	32x
Focal Distance	f=2.1-57.0mm; f=3/32-2 1/4inch
LCD Display	
LCD Type	2.7" (6.7cm) Clear Photo 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
Focus Control	
Focus System	Contrast AF
AF Modes	Auto/Manual(Menu)
Focus Area	Full range Focus
Exposure System	
Metering Modes	Multi-segment
Exposure Settings	Auto; Manual(Menu)
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	F1.9 - F10
Backlight Compensation	Yes(Auto)
LOW LUX Mode	Yes
Drive System	
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)
Convenience Features	
Manual / Auto Lens Cover	Manual
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
Advanced Features	

Face Detection	Yes
Image Stabilization	SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Intelligent Auto	Portrait/Baby/Tripod/Backlight/Landscape/Spotlight/Twilight/Macro/Low light
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
Direct Copy	Yes
DC IN	Yes
HDMI Terminal	Yes (HDMI micro)
Multi/Micro USB Terminal	Yes

Weights and Measurements

Dimensions (Approx.)	Approx.2 3/8inch x 2 1/4inch x 4 5/8inch (58mm x 57mm x 117mm)
Weight (Approx.)	Approx.7.4oz ((210g) 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 Life (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
-----------------------	--

Weights and Measurements

Dimensions (Approx.)	Approx.2 3/8inch x 2 1/4inch x 4 5/8inch (58mm x 57mm x 117mm)
Weight (Approx.)	Approx.7.4oz ((210g) Main Unit Only)Approx.9.0oz(NP-FV30(supplied battery)); Approx.9.3oz(NP-FV50); Approx.10.9oz(NP-FV70); Approx.14.4oz(NP-FV100)

Accessories

Supplied Accessories	Rechargeable Battery Pack (NP-FV30) (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 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)

© 2013 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony is not responsible for typographic and photographic errors. Features and specifications are subject to change without notice. Sony, Steady Shot and Clear Photo LCD are trademarks of Sony. Microsoft, Windows, and Windows Vista are trademarks of Microsoft Corporation. HDMI is a trademark of HDMI Licensing LLC. Dolby is a registered trademark of Dolby Laboratories. All other trademarks are trademarks of their respective