NEX-FS100U NEX-FS100UK NXCAM[®] Super 35mm Sensor Camcorder

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INTRODUCTION

NXCAM Super 35mm Motion Picture Camcorder Providing Creative Expression in High Quality Video Production

Sony's range of NXCAM[®] models now includes the NEX-F\$100U interchangeable lens camcorder featuring a Super 35mm sensor. Developed specifically for shooting motion pictures, this high sensitivity, large format sensor is capable of producing footage with shallow depth of field similar to that of a film camera for a new level of expression.

For even more creative flexibility, the NEX-FS100U also enables extended continuous recording and simultaneous recording of HD video footage for instant backup with an HXR-FMU128 Flash Memory Unit. These and other valuable features make this compact, high performance camera ideal for producing everything from low budget commercials, music videos and documentaries to wedding videos.



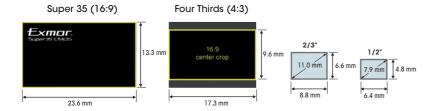
SENSOR

"Exmor" Super35 CMOS Sensor for Shooting Motion Pictures

Equipped with a large CMOS sensor equivalent in size to Super 35mm film, like that used in the PMW-F3, the NEX-FS100U enables shooting with similar creative depth of field as film cameras.

The sensor also features an optimum number of effective pixels for shooting HD moving images. At a high 60fps in all-pixel scan mode, this allows images to be captured with less color aliasing, jaggedness and rolling shutter than DSLR cameras, while providing the sensitivity to shoot at a minimum illumination of 0.28lux*¹. Another advantage of Exmor[®] technology is minimal noise when shooting low-light scenes.

* 1 When using a fixed shutter speed of 1/30, auto gain and an iris setting of F1.4 The SEL18200 lens supplied with the NEX-FS100UK enables shooting in illumination as low as 1.5lux when using a fixed shutter speed of 1/30, auto gain and auto iris



"Exmor" Super35 CMOS Sensor

Gross pixels	Approx. 3,530,000 pixels
Effective pixels of moving pictures in 16:9	Approx. 3,370,000 pixels
Effective pixels of moving pictures in 4:3	Approx. 2,530,000 pixels



Sensitivity



NEX-FS100U

Full Frame DSLR Camera

Depth of Field



NEX-FS100U

Four Thirds Camcorder

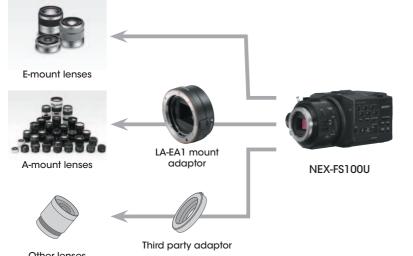
Simulated images

INTERCHANGEABLE LENSES

E-Mount Interchangeable Lens System

The NEX-FS100U features the E-mount Interchangeable lens system. Sony's E-mount interchangeable lenses let you enjoy a level of creative freedom unimaginable with camcorders of the past. All feature precision-crafted optics with aspherical glass elements for compact high performance, and circular iris mechanisms for smooth background defocusing. The NEX-FS100UK comes with the SEL18200(E 18-200mm F3.5-6.3 OSS) lens which boasts 11x zoom power, a quiet AF motor for cleaner sound recording, and Optical Steady Shot® image stabilization with an advanced Active mode that lets you take steady handheld shots while walking around — even without a bulky stabilization rig. An ultracompact SEL16F28 wide-angle lens and SEL1855 3x zoom lens are also available.

Thanks to the E-mount's short 18mm flange-back distance, using a mount adaptor allows shooting with a wide range of existing lenses. For example, with the optional LA-EA1 mount adaptor you can take advantage of the abundant A-mount lenses. In addition to Sony, there are four major lens manufacturers that will be producing compatible native E-mount lenses (available Summer 2011).





MODULAR DESIGN

New Design Concept Providing the Flexibility for a Variety of Shooting Styles

Featuring a compact, lightweight body with detachable grip, top handle, and viewfinder, the NEX-FS100U is ideal for a wide range of shooting situations.



During hand-held shooting, the angle of the grip can be changed as desired, and start and stop recording with a button on the grip. Secondary record buttons are also available at two locations, at the top and in front of the camera body. There are 1/4-inch and 3/8-inch screw holes on both the handle and the bottom of the camera body for mounting various peripheral devices, plus three 1/4-inch holes on the top of the camera body. In addition, there is a tape measure hook and a focal plane marker for indicating the image sensor position.



Located on the optical axis, the 3.5-inch-type XtraFine™ LCD panel enables easier and more intuitive framing, especially during hand-held shooting. And the LCD panel can be rotated for stress-free operation when shooting low-angle scenes and digital signage footage. For easier and more precise focusing in daylight, the viewfinder comes with a detachable 1.2x magnifier.

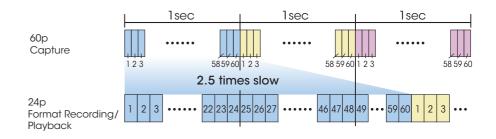
CREATION

1920x1080P Slow and Quick Motion

Recording images at a different frame rate from that used for playback provides the extra versatility of slow and quick motion shooting. Furthermore, the NEX-FS100U enables Full HD (1920x1080) progressive slow and quick motion. Frame rates are selectable from 60fps, 30fps, 15fps, 8fps, 4fps, 2fps and 1fps. So, for example, when recording at 1080/24p, if the frame rate is set to 60fps, images are recorded in 2.5 times slow motion. This means you can create impressive slow motion scenes without the need for troublesome editing.

Note: Slow and quick motion shooting is only available in HD progressive mode. Simultaneous slow and quick motion recording to a memory card and flash memory unit (optional HXR-FMU128) is not available.

Slow Motion Mechanism





SAFETY & LONG RECORDING

Hybrid Recording



Recording to the directly mountable optional HXR-FMU128 Flash Memory unit allows continuous recording for over 10 hours without changing the recording medium. Simultaneous recording using memory card and HXR-FMU128 is also possible for secure backup when shooting footage that can't be reshot.

Note: HD and SD footage cannot be recorded separately on different recording media.



Compatible Memory Cards Type

*For more information please refer to the specification sheet on the back of this brochure.



Approximate Recording Times*

HD MOVIE

		AVC HD 28M (PS)	AVC HD 24M (FX)	AVC HD 17M (FH)	AVC HD 9M (HQ)	AVC HD 5M (LP)
Linear PCM 2ch	1GB Memory Card	4 min	4 min	6 min	10 min	15 min
	2GB Memory Card	8 min	10 min	10 min	20 min	35 min
	4GB Memory Card	15 min	20 min	25 min	45 min	70 min
	8GB Memory Card	35 min	40 min	55 min	90 min	145 min
	16GB Memory Card	70 min	80 min	110 min	185 min	295 min
	32GB Memory Card	145 min	170 min	225 min	375 min	590 min
	HXR-FMU128 (128GB) [Optional]	600 min	700 min	940 min	1560 min	2460 min
Dolby Digital 2ch	1GB Memory Card	4 min	5 min	7 min	10 min	20 min
	2GB Memory Card	9 min	10 min	10 min	25 min	45 min
	4GB Memory Card	15 min	20 min	30 min	50 min	90 min
	8GB Memory Card	35 min	40 min	60 min	105 min	190 min
	16GB Memory Card	75 min	90 min	120 min	215 min	380 min
	32GB Memory Card	150 min	180 min	245 min	440 min	770 min
	HXR-FMU128 (128GB) [Optional]	640 min	750 min	1030 min	1830 min	3200 min

SD MOVIE

		SD 9M (HQ)
Dolby Digital 2ch	1GB Memory Card	10 min
	2GB Memory Card	25 min
	4GB Memory Card	55 min
	8GB Memory Card	110 min
	16GB Memory Card	225 min
	32GB Memory Card	460 min
	HXR-FMU128 (128GB) [Optional]	1910 min

* Recording time varies based on recording conditions.

WORKFLOW

NXCAM[®] Recording Format

Like other NXCAM[®] series cameras, the new NEX-FS100U uses the highly efficient AVCHD recording format to capture with excellent image fidelity. Better still, it's ready to shoot with an incredible maximum frame rate of 1920x1080/60p (28Mbps). Standard Definition with DVD format (MPEG-2 PS) recording is also possible.

HDMI 1.4 Output with Embedded Time code for 4:2:2 or RGB 4:4:4 Uncompressed Signal Output

When shooting, the NEX-FS100U provides HDMI 4:2:2 or RGB 4:4:4 uncompressed output with an embedded SMPTE Time code and embedded 2-3 pull-down markers for recording on external disc recorders.

Note: Embedding 2-3 pull-down markers enables material originally recorded at 24p and converted to 60i to be recognized once more as 24p in the HDMI output signal.

RECORDING FORMAT

Formats: HD: AVCHD/SD: MPEG2 PS (NTSC DVD Format)

Frame rate: 1920x1080/59.94p, 59.94i, 29.97p, 23.98p 1280x720/59.94p, 720x480/59.94i

Audio: LPCM/AC3 (2ch) (AC3 only for MPEG2-SD)

	AVCHD			MPEG2-SD		
	PS (28Mbps)	FX (24Mbps)	FH (17Mbps)	HQ (9Mbps)	LP (5Mbps)	HQ (9Mbp)
1920x1080/59.94p	0					
1920x1080/59.94i		0	0			
1920x1080/29.97p		0	0			
1920x1080/23.98p		0	0			
1440x1080/59.94i				0	0	
1280x720/59.94p	-	0	0		-	
720x480/59.94i						0

RECORDING/PLAYBACK

	[HDMI/ COMPONENT] setting	Output resolution			
HD/SD		HDMI OUT	COMPONENT OUT	VIDEO OUT	
	1080p/480i	1080p	1080p	480i	
	720p/480i	720p	720p	480i	
HD	1080i/480i	1080i	1080i	480i	
	480p	480p	480p	480i	
	480i	480i	480i	480i	
	1080p/480i	480i	480i	480i	
	720p/480i	480i	480i	480i	
SD	1080i/480i	480i	480i	480i	
	480p	480p	480p	480i	
	480i	480i	480i	480i	



FUNCTION

Other Convenient Features

Location Simplification with GPS Technology

A built-in GPS function automatically records location information at the time of a shoot to AVCHD[™] files. The supplied Content Management Utility (CMU) Version 2.0 software can also be used together with map service*. This enables easy confirmation of exactly where footage was shot, which is particularly useful for location shooting and when shooting overseas.

Picture Profile™

Six picture profile settings for different shooting conditions are provided as default settings. Selecting a picture profile for a particular scene offers an easy way to change image quality.

Last Scene Review

Enables fast, one-touch confirmation of the last recorded scene without operating multiple buttons.

*Map service requires PC with internet. Service provided by Google and subject to change without notice.





Expanded Focus

Press a button and this enlarges the center of the displayed image by 2x, a particularly useful feature when making critical focusing adjustments.

Histogram

Onscreen display of a histogram enables easier exposure adjustment. The histogram also shows the point where the zebra pattern appears (the zebra point). This enables confirmation of overall brightness distribution and the brightness level set with the zebra function. As well as preventing overexposure, this is useful as a guide when aiming for optimum exposure of certain parts of an image, such as faces.

Peaking

A peaking function draws a defined line around the subject displayed in the LCD monitor and viewfinder. Peaking sensitivity and color (red, white, yellow) can be selected to enable more precise focusing.

Markers

Center, aspect, safety zone, guide frame and other markers can be displayed on the LCD.

Firmware Update

Sony has implemented a firmware update scheme for future functions.

Sony Opens Up New Era of Super 35mm Digital Production







Optional Accessories



2NP-F970/B Rechargeable Battery Pack



AC-VQL1BP AC Adaptor / Charger



VCT-SP1BP Camcorder Support



VCT-SP2BP Camcorder Support



LC-EX3TH Transit Case



HXR-FMU128 Flash Memory Unit



UWP-V1, UWP-V2, UWP-V6 UWP-V Series Wireless Microphone Systems



RM1000BP LANC Remote Commander



HVL-LBPB Battery Video Light



LPM-770BP Portable Monitor





RM-1BP Remote Commander



 MS-HX32A
 (32 GB, 16 GB, 8 GB)

 Memory Stick PRO-HG Duo™ media

 MS-MT32G
 (32 GB, 16 GB, 8 GB, 4 GB, 2 GB)

 Memory Stick PRO Duo™ media



 SF-32N4
 (32 GB, 16 GB, 8 GB, 4 GB, 2 GB)
 SF-32NX
 (32 GB, 16 GB, 8 GB)
 SD / SDHC Memory Card

ACC-V1BP

(Include NP-FV100 and AC-VQV10)

Accessory Kit

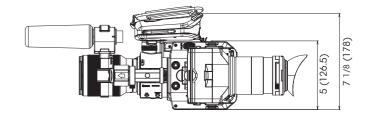
Specifications

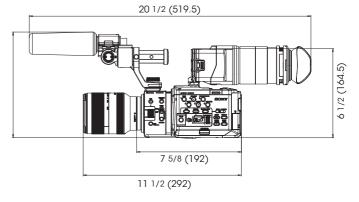
Martulat	Deducation		Amore Olik Ang (2,04 lin)			
Weight Body only w/optional lens w/VF, w/ Battery (NP-F970), w/large eyecup, w/handle, w/MC (ECM-XM1), w/grip, w/g gripbett Dimension (W x H x D) Body only			Approx. 2 lb 4oz (1.04 kg)			
		/handle, w/MIC (ECM-XM1),	Approx. 6 lb 1oz (2.76 kg)			
			Approx. 5 x 4 x 7 5/8 inch (126.5 x 101.5 x 193.5 mm)			
		/VF, w/large eyecup, w/handle,	Approx. 7 1/8 x 7 5/8 x 20 1/2 inch (178 x 192 x 519.5mm)			
	w/MIC (ECM-XM1)	, w/grip, w/o gripbelt				
Power requirements		nts (AC adaptor / Battery)	8.4V / 7.2V			
Power consumption	w/ ECM-XM1 and I	LCD with normal brightness	5.6W (w/ supplied lens) "When Flash Memory Unit HXR-FMU128 is used, the average power consumption increases about 1.1W			
Operating temperature			+32 to +104 deg F (0 to +40 deg C)			
Storage temperature			-4 to +140 deg F (-20 to +60 deg C)			
Continuous Recording Time	Continuous Recor		Approx. 510 min (NP-F970:fully charged batt.)			
Recording format	Video Format	HD	MPEG-4 AVC/H.264 AVCHD format compatible (1080/60p original format)			
		STD	MPEG-2 PS			
	Audio Format	HD	Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz			
De condita a fanance antest		STD	Dolby Digital 2ch, 16bit, 48kHz			
Recording frame rate*			HD PS (28Mbps) 1920x1080/60p, HD FX (24Mbps) 1920x1080/60i, HD FH (17Mbps) 1920x1080/60i, HD HQ (9Mbps) 1440x1080/60i, HD IP (6Mbps) 1440x1080/60i, HD FK (24Mbps) 1920x1080/24p, HD FH (17Mbps) 1920x1080/24p, HD FK (24Mbps) 1920x1080/30p, HD FH (17Mbps) 1920x1080/30p, HD FK (24Mbps) 1280x720/60p, HD FH (17Mbps) 1280x720/60p 50x5TD HQ (9Mbps) 720x480/60i, SD/STD HQ (9Mbps) 720x480/60i (245 Schort, DS/STD HQ (9Mbps) 720x480/60i (305 Schort			
Recording/Playback time			170 min (2h 50m) with 32GB Memory Stick PRO-HG Duo HX at FX(24Mbps) Linear PCM 2ch recording			
Lens (supplied with NE	EX-F\$100UK)					
Lens Mount			E-mount			
Model Name			SEL18200			
Product Name			E 18-200mm F3.5-6.3 OSS			
Equivalent 35mm-format for	al length	16:9	28.8 - 320mm			
		4:3	36- 400mm			
Zoom ratio			11.1x			
Filter Diameter			67mm			
Camera Section						
Imaging device			"Exmor" Super35 CMOS Sensor			
	Gross pixels		Approx. 3,530,000 pixels			
		moving pictures in 16:9 moving pictures in 4:3	Approx. 3,370,000 pixels Approx. 2,530,000 pixels			
Minimum illumination	Ellective pixels of	moving pictures in 4.5	0.28 lx (1/30 shutter, IRIS F1.4, Auto GAIN) **			
Shutter speed		Auto	60i/60p: 1/60-1/2000, 30p: 1/30-1/2000, 24p: 1/48-1/2400			
onunor specu		Manual	60i/30p/60p: 1/3 - 1/10000, 24p: 1/3 - 1/10000			
Slow & Quick Motion functio	n	Rec Format	1080/60p, 1080/30p, 1080/24p			
		Frame Rate	60fps, 30fps, 15fps, 8fps, 4fps, 2fps, 1fps			
		Shutter Speed	1/scan frame rate - 1/10000(Manual)			
White balance			Auto, Outdoor (5800K), indoor (3200K), One-push (Touch panel)			
Inputs/Outputs						
Audio input			XLR 3-pin (female) (x 2), LINE/MIC/MIC +48 V selectable			
Composite output			RCA Type (x 1)			
Audio output			RCA type (CH-1,CH-2)			
Component Video Output			RCA Type (x 3) via Mini-D jack			
USB			USB device, mini-AB/Hi-Speed (x 1)			
Headphone output			Stereo mini jack (x 1) ø3.5mm			
Remote			Stereo mini-minijack (ø2.5mm)			
HDMI output			HDMI connector (x 1)			
Puilt in LCD manitor			2 5 institutes VtreEine LCD, approv 021 400 date/1020 v 400\ 14:0 second with			
Built-in LCD monitor Recording Media			3.5 inch-type, XtraFine LCD, approx. 921,600 dots(1920 x 480), 16:9 aspect ratio			
Type			Memory Stick PRO Duo(Mark2), Memory Stick PRO-HG Duo, Memory Stick PRO-HG Duo HX			
iyhe			SD/SDHC/SDXC Memory Card ***			
Supplied Accessories			AC-VL1 AC Adaptor/Charger Power cord(mains lead), NP-F770 InfoLITHIUM Rechargeable Battery Pack,RMF-845 Wireless Remote Commander, CR2025 Lithium Battery(Installed), Component video cable, AV connecting cable, USB cable, VMC-UAM1 USB Adaptor Cable, Large LCD viewfinder, Large eyecup, ECM-XM1 Microphone, Wind Screen, Handle, Grip, Flash memory unit jack cover, Body cap (attached to the camcarder), Accessory shoe plate. DK-415 Connecting cord, CMU2. 0 Application Software (CD-ROM), Manuals for Interchangeable Lens Digital HD Video Camera Recorder (CD-ROM), Operating Guide, SEL1 8200 Zoom lens (supplied with NEX-FS100K), Lens hood (supplied with NEX-FS100UK), Front lens capteral reins cap			

Dimensions

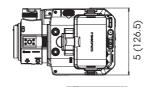
Unit: inches (mm)

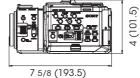
NEX-FS100U



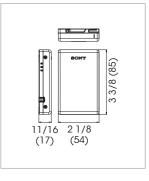


Body only





HXR-FMU128



Due to variable bitrate. 28Mbps is the maximum bitrate for HD PS mode, and 24Mbps for HD FX mode. The average bitrate is stated for FH, HQ and LP modes.
 1.5 Ix (w/ supplied lens: outo gain, outo iris, 1/30 shutter speed)
 *** Class 4 or higher

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V-2497 (MK10846V1)

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