



SR-R1000

Memory Storage Unit

SR-R1/SR-R4

Portable Memory Recorder

SRPC-5/SR-PC4

Memory Data Transfer Unit

SR-256S15/SR-512S25/SR-1TS25

SR-256S55/SR-512S55/SR-1TS55

Memory Card

SRMASTER: "SR" Re-defined

Since its introduction in 2003, the HDCAM-SR™ VTR format has become the industry standard for digital acquisition, content delivery, mastering, and archiving. Over the years Sony has relentlessly refined the format by enhancing the product lineup and its feature set. In order to meet the escalating demands to store more image data at less cost of ownership, Sony proudly announces the SRMASTER™ family of products, a new breed of storage products that are based on state of the art solid-state recording technology and high-speed file based network connectivity. From HDTV production to 3D/4K feature movie production, SRMASTER offers the best in recording speed, quality, cost, and reliability.



SRMASTER Lineup*



SR-R1000
Memory Storage Unit



SR-R1
Portable Memory Recorder



SR-R4
Portable Memory Recorder



SRPC-5
Memory Data Transfer Unit



SR-PC4
Memory Data Transfer Unit

*For details of supported recording/playback formats and schedule, please refer to the "Supported Format" table on page 14.

SRMASTER Key System Features

SRMASTER Format – HD to 4K Mastering Quality Files

SRMASTER is a powerful format which offers maximum creativity to the professionals from the HD television to 4K cinema production. SRMASTER format includes both the MPEG-4 SStP (Simple Studio Profile) and F65RAW recordings.

The MPEG-4 SStP is the image compression scheme that's also used by the HDCAM-SR™ VTR product range. Fully tested and proven, SStP is an intra-frame/field visually lossless compression algorithm that records 10- or 12-bit RGB or 10-bit 4:2:2 image files, and numerous nonlinear editing platforms support native file editing. As well as existing SR-HQ (880 Mbps) and SR-SQ (440 Mbps) modes, SRMASTER products support an additional compression level called SR-Lite (220 Mbps at 1080/59i) to serve HDTV program production. Up to 16 channels of uncompressed audio track and associated metadata can be recorded, all wrapped in an industry-standard MXF wrapper.

The new F65 digital motion picture camera outputs super-rich 16bit RAW signal and SRMASTER is the only viable recording technology that can sustain real-time recording of F65RAW files without missing a frame. Due to the wide recording bandwidth of SRMemory™ cards, up to 59 minutes of F65RAW footage at 24p or up to 24 minutes of 120p high frame rate image can be recorded on 1 TB SRMemory card.

Multi-format & Future-proof

SRMASTER products support 3G-SDI (SMPTE 424M) for a real-time image/audio/data interface. All SRMASTER products support full-bandwidth RGB, 4:2:2/1080/60p, and stereoscopic 3D recording, while certain products additionally support real-time 4K (4096 x 2160) and QFHD (3840 x 2160) recording/playback. Depending on SRMemory card speed, multiple camera streams can be recorded/played back simultaneously from a single card.* Native recording files can be shared in the post-production environment, thanks to the network connectivity of the SR-R1000 recorder, SRPC-5 and SR-PC4 data transfer unit.

* On the SR-R1000 recorder only.

SRMemory – High-speed, High-capacity Removable Storage

The SRMASTER Series adopts the SRMemory card as its recording media. SRMemory cards are unique in the industry for achieving a guaranteed read/write speed of up to 5.5 Gbps, and offering a storage capacity of up to 1 TB, within a smaller, lighter removable device than is typical in personal digital assistants (PDAs). Unlike other general purpose IT memory cards, SRMemory card guarantees the data throughput thanks to the Sony proprietary memory control algorithm. With this extreme recording/playback capability, SRMemory cards are ideal storage devices for multiple HD camera work including 3D production, high frame rate digital cinematography, and high-resolution digital cinematography.

High Security

The SRMASTER series has a powerful built-in data salvage system which means that precious images and data can be retrieved in the event memory chip failure caused, for example, by power loss.* To prevent unauthorized access to content, SRMemory cards and the files they hold can be password protected.**

* In some instances, it may not be possible to restore images recorded just before an accident. No warranty is given on always achieving content restoration.

** Password protection function of the SRMemory card will be available after 2012.

SRMASTER License Program:

Sony offers a license program to support 3rd party company's development for SRMASTER format - which supplies technical documents and SDK.
For more information, please contact : sr-license@jp.sony.com

SR-R1000 Memory Storage Unit

The SR-R1000* is an ultra-high-speed, new-generation storage system suitable for a variety of applications in live, broadcast, and post-production, including multi-camera ISO recording, instant replay clip feeder, high-speed multi-ingest, cash storage, and more.

Thanks to the outstandingly high bandwidth of the SRMemory platform, the SR-R1000 can handle 2D, 3D, 1080p, and 4K, all in one unit, offering unparalleled support to professional creativity.

* For details of supported recording/playback formats and schedule of the SR-R1000, please refer to the "Supported Format" table on page 14.



MPEG-4 Simple Studio Profile

The SR-R1000 offers outstanding picture quality by incorporating Sony's industry-standard HDCAM-SR codec, the MPEG-4 Simple Studio Profile (SSiP).

A variety of operating levels are supported from SR-Lite (220 Mbps), and SR-SQ (440 Mbps) up to SR-HQ (880 Mbps). Both 4:2:2 (10-bit) and RGB 4:4:4 (10- and 12-bit) recording are supported. Uncompressed recording is also supported.

4 x Dual-stream Channels

The SR-R1000 comes as standard in a 1-Out configuration, and can be expanded to handle up to four channels in flexible configurations - 3-In/1-Out, 2-In/2-Out, 1-In/3-Out, or 4-Out - by installing optional SRK-R201 or SRK-R202 HD Input/Output boards.

Each A/V channel of the SR-R1000 is designed to handle up to dual-stream video, which allows users to record and playback one pair of 3D stereoscopic signals or key/fill signals just with one A/V channel.

All four A/V channels can be operated simultaneously, thanks to high-speed SRMemory cards. This increases productivity during live operation and post-production.

Powerful Stereoscopic 3D Operation - 1080p 3D & RGB 3D

The SR-R1000 brings a new 3D production level to live operation and post-production. Each A/V channel of the SR-R1000 comes equipped with a dual-link 3G-SDI interface, making 3D stereoscopic production easier and more affordable. The SR-R1000 can handle up to four channels of 1080p 3D signals, or RGB 4:4:4 3D signals.

Multi-format - 720p, 1080p, 2K, 4K

Building on the extraordinary multi-format recording capability of HDCAM-SR VTRs, the SR-R1000 supports the following formats: 1280x720/4:2:2, 1920x1080/4:2:2, 1920x1080/4:4:4, 2048x1080/4:4:4, and 2048x1556/4:4:4. When configured to handle four streams of HD/2K signal, the SR-R1000 can record 4K images (3840x2160, 4096x2160) over quad HD-SDI or quad 3G-SDI.

* Super Slow Motion (180i) will be supported with a future option.

16-channel Audio

Each A/V channel supports 16-channel uncompressed digital audio (24-bit, 48 kHz), along with a split-edit capability for audio and video.

4 TB Removable Storage (8 TB Internal Storage*)

The SR-R1000 has four slots for removable SRMemory cards. Each slot can be loaded with a 256 GB, 512 GB, or 1 TB memory card, providing up to 4 TB of storage capacity. As soon as, for example, a live event finishes, the user can instantly eject the SRMemory cards to bring to the editing facility - no more wasting time waiting for data to off-load.

* 8 TB of internal fixed memory storage will be available in 2012.

System Format	Bit depth	Frame Rate	Recording Mode	Data Rate	1TB SRMemory x4 (4 TB)	8TB Internal Fixed Storage	Total	
1920 x 1080	4:2:2	10 bit	59.94i	SR-Lite	220 Mbps	30 hours	60 hours	90 hours
				SR-SQ	440 Mbps	15 hours	30 hours	45 hours
1920 x 1080	4:2:2	10 bit	59.94p	SR-SQ	880 Mbps	8 hours	16 hours	24 hours

Network Capability

The SR-R1000 has a network file transfer capability over Gigabit Ethernet (GbE)* and supports FTP-protocol file transfer in the MXF (MPEG-4 SStP) format.

* 10GbE option will be available in 2012.

Format Converter & Multi-monitor Output*

The SRK-R202 HD Output Board is equipped with an internal format converter that provides SDTV down-converted outputs from 1080 and 720 recordings, 2-3 pull-down, cross-conversion between 1080 and 720, and between 4:2:2 and 4:4:4. Multi-monitor output enables real-time monitoring of all four SR-R1000 video channels in quad-split display.

* Format Converter and Multi-monitor Output will be available in 2012.

Versatile Control Protocol & Interoperability

The SR-R1000 can be fully controlled by switcher and slow-motion controllers, separately for each A/V channel. The system is compatible with the most popular control protocols such as Sony's VTR/Disk protocol and VDCP*. When working in a live operation or post-production environment with MVS switchers, the SR-R1000 is best used as a 2D/3D clip feeder, synchronized key/fill source, graphics feeder, or temporary buffer for compositing. The SR-R1000 also offers flawless integration with third-party tools and the most popular craft editors, including Avid Media Composer and Apple Final Cut Pro.

* VDCP protocol will be supported in 2012.



SR-R1000 Front Panel



SR-R1000 Rear Panel
(SRK-R201/R202 boards are installed.)

Optional Accessories



SRK-R201 HD Input Board



SRK-R202 HD Output Board

SR-R1/SR-R4 Portable Memory Recorder

A line-up of two portable recorders is offered for the SRMASTER family, to meet a variety of production demands. The SR-R1* is designed for high-quality HD recording while the SR-R4 is a 16 bit linear RAW recording system specifically developed for Sony's new top-end F65 cinematography motion picture camera. These recorders take full advantage of the ultra-high-speed SRMemory platform, raising quality and creativity standards in professional production.

* For details of supported recording/playback formats and schedule of the SR-R1, please refer to the "Supported Format" table on page 14.

SR-R1

The SR-R1 is a highly portable recording system compatible with any cameras, camcorders, and other equipment with an HD-SDI interface. Dual-link HD-SDI/3G-SDI is supported to provide stunning recording capabilities including 1080 50p/59.94p and RGB 4:4:4 recording. This system also offers a dual-stream recording capability which is useful for 3D stereoscopic image capturing. SR-Lite (220 Mbps) and SR-SQ (440 Mbps) are supported as standard; SR-HQ (880 Mbps) and uncompressed recording are supported as options.

Main Features

- HD-SDI/3G-SDI dual-link In/Out
- Full-bandwidth RGB 4:4:4 recording
- 4:2:2 1080 50p/59.94p recording
- SR-Lite and SR-SQ recording
- SR-HQ including RGB 12-bit and uncompressed recording (option: SRK-R311)
- 16 channels of 24-bit audio
- 3D stereoscopic (dual-stream) mode (up to 29.97p, RGB 4:4:4 dual-stream is optional)
- DC operation
- Timecode In/Out
- Control panel supplied
- RS-422 remote control
- Dockable style operation with Sony camcorders (via optional adaptor)



SR-R1 Connectors



HDW-F900R with SR-R1 attached*

* Requires power supply to both camcorder and SR-R1.

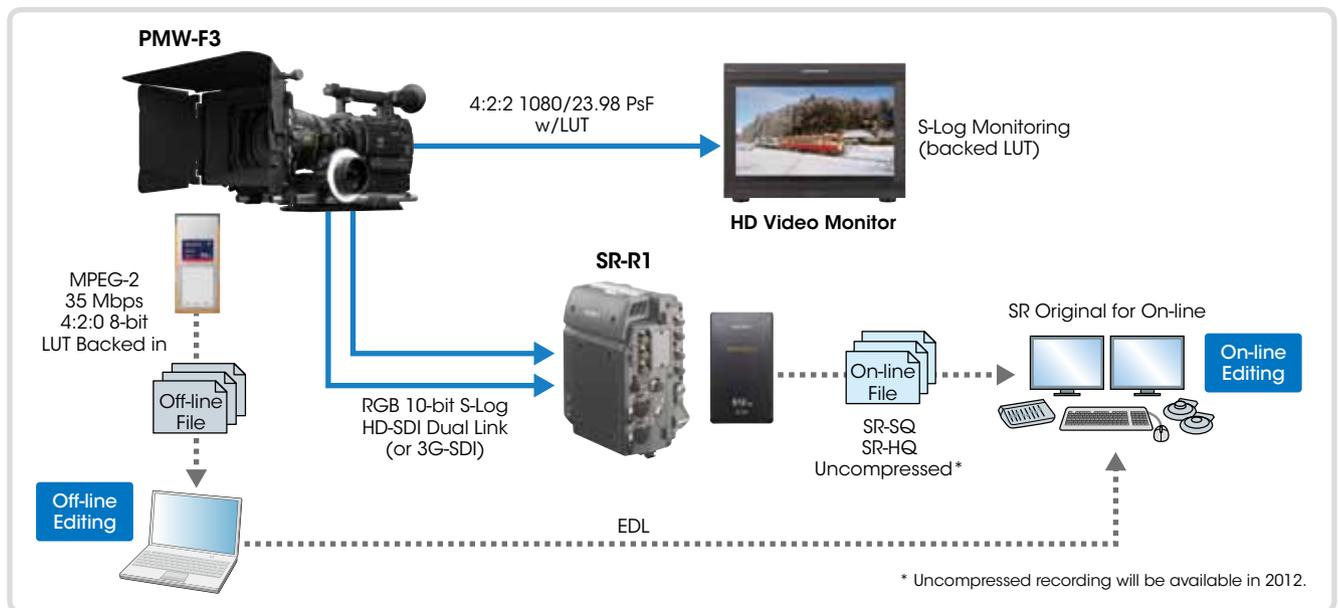
Perfect Companion Storage for PMW-F3

The SR-R1 offers a high-quality on-line storage solution for Sony's PMW-F3. SR-quality on-line recording is provided with SRMemory cards while MPEG-2 off-line media can be simultaneously recorded on SxS™ cards in the PMW-F3. Both media have perfectly synchronized timecodes and duration, offering a truly efficient workflow.

- RGB S-Log recording
- Select FPS - 4:2:2 17 fps to 60 fps, RGB 17 fps to 30 fps
- Synchronized REC trigger
- Simultaneous recording on SxS (off-line) and SRMemory card (on-line) with synchronized timecodes



PMW-F3 & SR-R1 RGB S-Log Workflow



Optional Accessories

SRK-R311* HQ Record Option

*SRK-R311 will be available in 2012.



SRK-R302 Attachment Kit

Chrosziel Accessories



401-R119 Mount on 19 mm Rod
401-R115 Mount on 15 mm Rod
(photo shows 401-R119)



3305 Hand Grip



SR-R4

The SR-R4 is exclusively designed as the companion on-board recorder for Sony's new top-of-the-line F65 digital motion picture camera. It takes full advantage of the ultra-high-speed SRMemory platform to record super-rich RAW data from the F65 at speeds as fast as up to 5.5 Gbps. Together with the newly developed, state-of-the-art image sensor of F65, the SR-R4 delivers amazing, never-seen-before image quality.

Furthermore, HD recording in MPEG-4 SStP format* is also offered with the F65 and SR-R4 for HDTV program production.

Main Features

- Dockable with the F65 camera
- F65RAW (16-bit Linear RAW) recording
- 59 minutes of RAW recording onto a 1 TB SRMemory card at 24 fps
- 120 fps high frame rate recording
- HD MPEG-4 SStP recording*
- Select FPS – variable frame rate image capturing from 1 fps to 60 fps in Normal mode, and 1 fps to 120 fps in HFR mode
- 16 channels of 24-bit audio recording
- 2 channels of analog audio inputs
- Timecode In/Out
- Control panel (option: SRK-CP1)

* To be supported in future.



Optional Accessory



SRK-CP1 Control Panel

F65 Digital Motion Picture Camera

The F65 is the Sony's brand-new top-end digital motion picture camera. At the heart of the F65 camera is Sony's newly developed 8K CMOS sensor, which delivers pristine HD, 2K, and true 4K resolution today – and will go far beyond 4K in the future, as the industry needs evolve.

Main Features

- Unique 8K CMOS sensor with approx. 20M pixels
- Wide color gamut, ideal for AMPAS-IIF workflow
- Rotary shutter model to prevent motion artifacts
- 1 to 120p high frame rate image capturing
- 16 bit Linear RAW output
- HD-SDI output
- Built-in ND filter
- Wi-Fi control from tablet device



SRPC-5 Memory Data Transfer Unit

The SRPC-5* is a rack mount type data transfer unit that allows SRMemory data viewing, logging, and ingesting to editing applications. The unit offers a web-based GUI, which is used for viewing and ingesting SRMemory content for review at post-production acceptance. In addition, it can duplicate valuable materials to HDCAM-SR tape.

* For details of supported playback formats and schedule of the SRPC-5, please refer to the "Supported Format" table on page 14.



Main Features

- **Fast Ingest**
 - The SRPC-5 allows fast data transfer from SRMemory cards to servers and/or NLEs via GbE or an optional 10GbE network interface.
 - It also enables fast ingest from HDCAM-SR tapes*, at up to twice** the normal playback speed
- **Simple Viewing**
 - When a material is recorded in SR Video mode, it is capable to browse and view on broadcast monitor.
- **Tape Backup***
 - When connected to SRW-5800, the recorded materials on SRMemory can be duplicated to HDCAM-SR tape without decode/re-encode processes. Users can simply duplicate a whole SRMemory contents or select clips to be cloned
- **1RU high frame, fitting a 19-inches rack unit**

* HDCAM-SR tape ingest and tape backup function will be supported in 2012.

** Refers to MXF files.



SR-PC4 Memory Data Transfer Unit

The SR-PC4* is an SRMemory data transfer unit specifically designed for portable environment. It can be smartly integrated into PC-based production environment such as on-set video village, on-set dailies system, and production office. Materials shot by the F65 can be instantly reviewed via SR-PC4's web-based GUI just after shooting.

* For details of supported playback formats and schedule of the SRPC-4, please refer to the "Supported Format" table on page 14.

Main Features

- DC operation (AC adapter supplied)
- SRMemory READ/WRITE*
- Fast data transfer from SRMemory card to servers and/or NLEs via GbE or an optional 10GbE** network interface. Files and clips can be easily browsed by the SR-PC4 GUI.
- F65RAW monitoring (optional)
- Direct data copy to shuttle drives via an optional eSATA** interface

* SRMemory WRITE and F65RAW monitoring option will be available in 2012.

** 3rd party PCIe card



SR-256S15/SR-512S25/SR-1TS25/SR-256S55/SR-512S55/SR-1TS55* Memory Card



The SRMemory card is an ultra-high-speed, high-capacity, and high-reliability flash memory media for SRMASTER series products, ideal for demanding professional applications including 3D production, high-frame-rate recording, and high-resolution digital cinematography. The SRMemory card line-up includes three speeds and three capacities in six different models, to best accommodate the full range of user requirements. Thanks to its sustained data throughput, the SRMemory card can record and playback multiple streams simultaneously and supports data rates that can handle up to 4K.**

* SR-1TS55 card will be available in 2012.

** Depending on the data rate of the recording signal (such as 4K, dual-stream, and I/O configuration), usable SRMemory card may be limited.

Main Features

- Up to 5.5 Gbps ultra-high-speed sustainable read/write speed
- Compact, high-capacity removable media
 - 60 x 9.4 x 105 mm, approx. 100 g
(2 3/8 x 3/8 x 4 1/4 inches, 3.5 oz)
 - Up to 1 TB storage capacity
- HD to 4K real-time and multi-stream recording
 - YPbPr422, RGB444, 1080 59.94p, 3D, 4K, uncompressed
- High data security and high data reliability
 - Sony's original data redundancy method for high data reliability
 - High data security such as card/file password protection and device authentication*

* Data security function will be available after 2012.

Maximum Recording Time (min.)*

Series		S15	S25			S55		
		1.5 Gbps	2.5 Gbps			5.5 Gbps		
Model Name								
		SR-256S15	SR-512S25	SR-1TS25	SR-256S55	SR-512S55	SR-1TS55**	
Capacity		256 GB	512 GB	1 TB	256 GB	512 GB	1 TB	
HD	59.94i	SR-Lite 422	114	228	457	114	228	457
		SR-SQ 422/444	60	120	241	60	120	241
		SR-HQ 444	32	64	128	32	64	128
	59.94p	SR-Lite 422	60	120	241	60	120	241
		SR-SQ 422/444	32	64	128	32	64	128
		SR-HQ 444	N.A.	32	65	16	32	65
	50i	SR-Lite 422	137	274	549	137	274	549
		SR-SQ 422/444	72	144	290	72	145	290
		SR-HQ 444	38	76	153	38	76	153
	50p	SR-Lite 422	72	144	290	72	145	290
		SR-SQ 422/444	38	76	153	38	76	153
		SR-HQ 444	N.A.	39	78	19	39	78
	23.98PsF	SR-Lite 422	142	285	572	142	286	572
		SR-SQ 422/444	77	155	311	77	155	311
		SR-HQ 444	40	80	160	40	80	160
Uncompressed 422		27	55	110	27	55	110	
Uncompressed 444		N.A.	34	69	17	34	69	
4K	23.98PsF	F65RAW	N.A.	29	59	14	29	59
	120PsF	F65RAW HFR	N.A.	N.A.	N.A.	5	11	23

* Depending on the data rate of the recording signal (such as 4K, dual-stream, and I/O configuration), usable SRMemory card may be limited.
In case of 3D recording, maximum recording time will be approximately half.

** SR-1TS55 card will be available in 2012.

Specifications

Transfer Speed (Sustained)	SR-256S15: 1.5 Gbps
	SR-512S25/SR-1TS25: 2.5 Gbps
	SR-256S55/SR-512S55/SR-1TS55: 5.5 Gbps
Capacity (User Capacity) *	SR-256S15/SR-256S55: 256 GB (approx. 225 GB)
	SR-512S25/SR-512S55: 512 GB (approx. 450 GB)
	SR-1TS25/SR-1TS55*: 1 TB (approx. 900 GB)
Input Voltage	3.3 V DC \pm 10%
Power Consumption	Max. 10 W
Operating Temperature/Humidity	Complies with the operating condition of the supported device
Storage Temperature/Humidity	-40 °C to +80 °C (-40 °F to +176 °F)/95% or less (non condensation)
Dimensions	60 x 9.4 x 105 mm (2 3/8 x 3/8 x 4 1/4 inches) (excluding protrusions)
Mass	Approx. 100 g (3.5 oz.)
Supplied Accessories	Card case, Card label sheet, Operation manual

* The SR-1TS55 will be available in 2012.

SRV-10 Ver. 1.10* SR Viewer

SRV-10 Ver.1.10 software is a simple-to-use PC application that allows easy viewing of SStP (Simple Studio Profile) MXF video clips imported from the SRMASTER products and SRW-5800/HKSR-5804. Once an SStP MXF file is imported, users can conveniently view the footage at any PC workstation installed with SRV-10 software.

Functionalities

- Viewing SStP MXF files on a PC display and/or broadcast monitor when an HD-SDI video card is installed
- Supports 4:2:2 SR-SQ/SR-Lite and 4:4:4 SR-SQ formats
- Media metadata can be viewed on SRV-10 Ver.1.10
- Converts SStP MXF format files to sequentially-numbered DPX files
- Converts MXF V1.2 format files to MXF V1.3 files

System Requirements

- CPU: Intel Xeon 2.33-GHz processor with 8 processing cores or higher
- Memory: 1 GB or more
- HDD: 100 MB or more of free hard disk space
- Monitor resolution: 1024 x 768 pixels or better
- Operating system: Microsoft Windows XP Professional Service Pack 2 32-bit or later, or Microsoft Windows Vista Business/Ultimate 32-bit or 64-bit, or Microsoft Windows 7 32-bit or 64-bit
- Other: DirectX 9.0c or later installed

* This software is designed for use with an MS Windows® operating system (OS). U.S. export control regulations may require an export license for export/re-export of the Windows OS (for details, contact Microsoft Corporation).

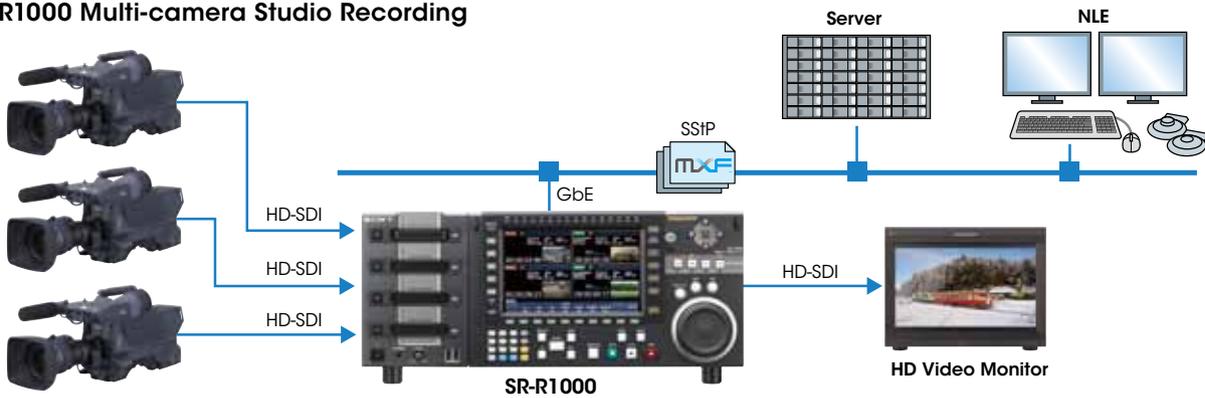


System Example

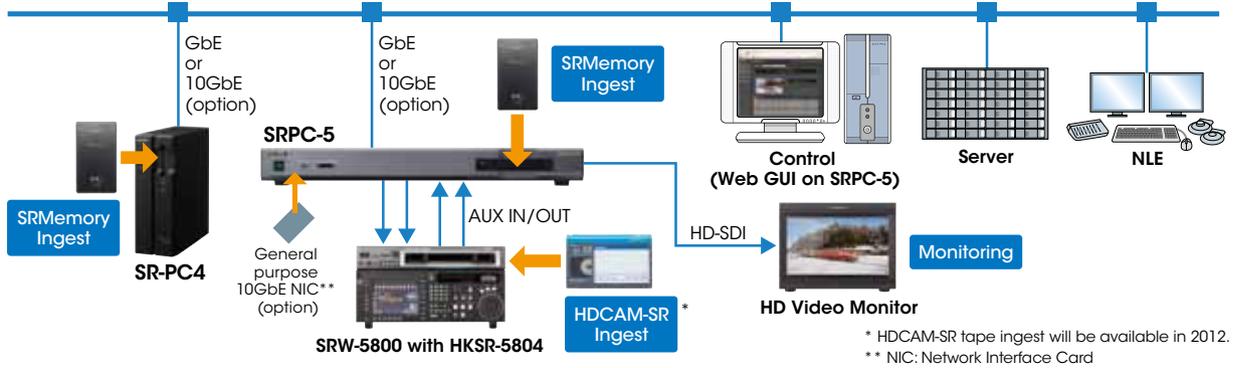
SR-R1000 Instant Replay



SR-R1000 Multi-camera Studio Recording



SRMemory Ingest



SRPC-5 Tape Backup*



*Tape backup will be available in 2012.

Supported Format

Supported Format (2D)

Image Format	Frame Rate	SR Recording			
		HQ (12bit)	HQ (10 bit)	SQ (10bit)	Life (10bit)
1280x720/422	50/59.94p	-	-	SR-R1* SRPC-5* SR-PC4* SR-R1000	SR-R1* SRPC-5* SR-PC4* SR-R1000
1920x1080/422	50/59.94p	-	-	SR-R1** SRPC-5 SR-PC4 SR-R1000*	SR-R1** SRPC-5 SR-PC4 SR-R1000*
	23.98/24/25/29.97PsF	-	-	SR-R1 SRPC-5 SR-PC4 SR-R1000	SR-R1 SRPC-5 SR-PC4 SR-R1000
	50/59.94i	-	-	SR-R1 SRPC-5 SR-PC4 SR-R1000	SR-R1 SRPC-5 SR-PC4 SR-R1000
1920x1080/444	50/59.94p	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1* SRPC-5* SR-PC4* SR-R1000*	-
	23.98/24/25/29.97PsF	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 SRPC-5 SR-PC4 SR-R1000	-
	50/59.94i	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 SRPC-5 SR-PC4 SR-R1000*	-
2048x1080/444	23.98/24/25PsF	SR-R1000*	SR-R1000*	-	-
2048x1556/444	23.98/24/25PsF	-	SR-R1000*	-	-

SRPC-5/SR-PC4 V1 supports read only.

* To be supported in 2012.

** V1 supports SelectFPS with the PMW-F3. Native 1080p will be supported in 2012.

Supported Format (3D)

Signal	Frame Rate	SR Recording			
		HQ (12bit)	HQ (10bit)	SQ (10bit)	Life (10bit)
1280x720/422	50/59.94p	-	-	SR-R1* SRPC-5* SR-PC4* SR-R1000*	SR-R1* SRPC-5* SR-PC4* SR-R1000*
1920x1080/422	50/59.94p	-	-	SR-R1000*	SR-R1000*
	23.98/24/25/29.97PsF	-	-	SR-R1* SRPC-5* SR-PC4* SR-R1000	SR-R1* SRPC-5* SR-PC4* SR-R1000
	50/59.94i	-	-	SR-R1* SRPC-5* SR-PC4* SR-R1000	SR-R1* SRPC-5* SR-PC4* SR-R1000
1920x1080/444	50/59.94p	SR-R1000*	SR-R1000*	SR-R1000*	-
	23.98/24/25/29.97PsF	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000	-
	50/59.94i	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	SR-R1 (w/SRK-R311)* SRPC-5* SR-PC4* SR-R1000*	-
2048x1080/444	23.98/24/25PsF	SR-R1000*	SR-R1000*	-	-
2048x1556/444	23.98/24/25PsF	-	-	-	-

SRPC-5/SR-PC4 V1 supports read only.

* To be supported in 2012.

Specifications

SR-R1000		
General		
Recording Format	MPEG-4 SSIP format	
Power Requirements	100 to 240 V AC	
Power Consumption	Max. 480 W	
Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Humidity	25% to 90% (no condensation)	
Mass	23 kg (50 lb 11 oz) (with all options)	
Dimensions (W x H x D)	427 x 174 x 540 mm (16 7/8 x 6 7/8 x 21 5/16 inches) (excluding protrusion)	
Video (422 Format)		
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz	
Quantization	10 bits/sample	
Compression	MPEG-4 SSIP	
Video (444 Format)		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample*	
Compression	MPEG-4 SSIP	
Digital Audio		
Sampling Frequency	48 kHz	
Quantization	24 bits/sample	
Headroom	20/18/16/15/12/9 dB selectable	
Analog Audio		
D/A Quantization	24 bits/sample	
Input/Output		
When the SRK-R201 is installed (optional)		
HD-SDI Input	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
	Input Monitor A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
HD-SDI Output	Multi Monitor*	BNC (x1) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard)
Timecode Input		BNC (x1) 0.5 to 18 Vp-p, 10 kΩ
Timecode Output		BNC (x1) 2.2 Vp-p, low impedance
Digital Audio Input (AES/EBU)		BNC (x8) (CH1/2, CH3/4, CH5/5, CH7/8, CH9/10, CH11/12, CH13/14, CH15/16) AES/EBU format, unbalanced
When the SRK-R202 is installed (one SRK-202 is included as standard)		
HD-SDI Output	A/B	BNC (x6) (MONITOR includes character superimpose) HD-SDI (1.485 Gbps) (SMPTE 292M, BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
HD-SDI Output	Multi Monitor*	BNC (x1) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard)
Timecode Output		BNC (x1) 2.2 Vp-p, low impedance
Digital Audio Output (AES/EBU)		BNC (x8) (CH1/2, CH3/4, CH5/5, CH7/8, CH9/10, CH11/12, CH13/14, CH15/16) AES/EBU format, unbalanced
SR-R1000 Standard Input/Output		
Reference Input		BNC (x2) (including one loop-through) 75 Ω with terminal switch HD (tri-level sync)/SD (Black Burst)
Remote	1/2/3/4	D-sub 9-pin (female) (x4)
Video Control		D-sub 9-pin (female) (x1)
GPIO (25P)		D-sub 25-pin (female) (x1)
Network	1/2	RJ-45 jack (x2), 1000BASE-T
Maintenance		USB type (x3), RJ-45 jack (x1)
Analog Monitor Output		XLR-3-pin (male) (x2)
Headphone		Phone jack (x1)
Supplied Accessories	Operation Guide (1), Installation Manual (1), Operation Manual (CD-ROM) (1)	

* Multi monitor output and 12 bit recording will be available in 2012.

SR-R1		
General		
Recording Format	MPEG-4 SSIP format, Uncompressed*	
Power Requirements	11 to 17 V DC	
Power Consumption	30 W (when recording at 422 23.98PsF SR-Lite mode)	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Humidity	10% to 95% (no condensation)	
Mass	1.9 kg (4 lb 3 oz) (excluding control panel and SRMemory card)	
Dimensions (W x H x D)	141 x 97 x 190 mm (5 5/8 x 3 7/8 x 7 1/2 inches) (excluding protrusion)	
Video (422 Format)		
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz	
Quantization	10 bits/sample	
Compression	MPEG-4 SSIP, Uncompressed*	
Video (444 Format)		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample*	
Compression	MPEG-4 SSIP, Uncompressed*	
Digital Audio		
Sampling Frequency	48 kHz (synchronized with video)	
Quantization	24 bits/sample	
Headroom	20 dB	
Analog Audio Input		
A/D Quantization	24 bits/sample	
Reference Input Level	Line: +4 dBV, Mic: -34/-46/-58 dBV	
Frequency Response	20 Hz to 20 kHz +0.5/-1.0 dB (reference level)	
Dynamic Range	100 dB or more (1 kHz)	
Distortion	0.05% or less (1 kHz, reference level)	
Crosstalk	-80 dB or less (1 kHz, between each channel)	
Input/Output		
Input		
HD-SDI Input	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
	Audio Input	CH-1/CH-2: XLR-3-pin (female) (x2) Line/Mic/Mic +48V selectable
Timecode Input		BNC (x1) 0.5 to 18 Vp-p, 10 kΩ (SMPTE 12M standard)
Auxiliary Input (Digital Audio)		BNC (x1) HD-SDI embedded audio (1.485 Gbps)
Output		
Timecode Output		BNC (x1) 1.0 Vp-p (75Ω), 2.2 Vp-p (10 kΩ) (SMPTE 12M standard)
HD-SDI Output	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Earphones		Stereo mini-jack (x1)
Input/Output		
Remote		LEMO 14-pin (female) (x1)
Control Panel		Control panel connector (x1)
Supplied Accessories		
	Control Panel (1), BKP spacer (1), Control Panel Bracket (1), Control Panel Cable (L600) (1), Remote Conversion Cable (1), Operation Manual (E)(1), (J)(1)	

* Uncompressed recording and 12 bit recording will be available in 2012.

SR-R4		
General		
Recording Format	F65RAW, MPEG-4 SSIP format*	
Power Requirements	11 to 17 V DC (from F65)	
Power Consumption	Approx. 37 W (when recording at F65RAW 24 fps mode)	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Humidity	10% to 95% (no condensation)	
Mass	1.8 kg (3 lb 15 oz) (excluding SRMemory card)	
Dimensions (W x H x D)	141 x 89 x 190 mm (5 5/8 x 3 3 5/8 x 7 1/2 inches) (excluding protrusion)	
F65RAW		
RAW Signal	F65RAW	
Quantization	16 bits linear	
Compression	Sony original	
Video (444 Format) *		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample	
Compression	MPEG-4 SSIP	
Digital Audio		
Sampling Frequency	48 kHz (synchronized with video)	
Quantization	24 bits/sample	
Headroom	20 dB	
Analog Audio		
D/A Quantization	24 bits/sample	
Input/Output		
Input		
Timecode Input		BNC (x1) 0.5 to 18 Vp-p, 10 kΩ
Audio Input		CH-1/CH-2: XLR-3-pin (female) (x2) Line/Mic/Mic +48V selectable
Auxiliary Input (Digital Audio)		BNC (x1) HD-SDI embedded audio (1.485 Gbps)
Output		
Timecode Output		BNC (x1) 2.2 Vp-p, low impedance (SMPTE 12M standard)
Earphones		Stereo mini-jack (x1)
Input/Output		
Control		LEMO 9-pin (female) for control panel (x1)
Supplied Accessories		
	BKP spacer (1), Control Panel Bracket (1), Control Panel Cable (L600) (1), Operation Manual (E)(1), (J)(1)	

* To be supported in future.

Specifications

SRPC-5	
General	
Power Requirements	100 to 240 V AC (50/60 Hz)
Power Consumption	120 W (with all options)
Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	10 kg (22 oz)
Dimensions (W x H x D)	427 x 43.6 x 546 mm (16 7/8 x 1 3/4 x 21 1/2 inches) (excluding protrusion)
Video (422 Format)	
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz
Quantization	10 bits/sample
Compression	MPEG-4 SSIP
Video (444 Format)	
Sampling Frequency	RGB: 74.25 MHz
Quantization	10 bits/sample, 12 bits/sample
Compression	MPEG-4 SSIP
Digital Audio	
Sampling Frequency	48 kHz
Quantization	24 bits/sample
Headroom	20/18 dB
Analog Audio	
D/A Quantization	24 bits/sample
Input/Output	
Input	
Auxiliary Input	BNC (x2) for uncompressed data dubbing between SRW-5800s
Output	
Auxiliary Output	A/B BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Input/Output	
VTR Interface (Input/Output)	Local interface input A/B: BNC (x2) Local interface output A/B: BNC (x2)
Ethernet	RJ-45 jack (x1), 1000BASE-T
Option	PCI Express slot (x1) (PCI Express x4 Gen1)
Supported Format	
SRMemory	
	1080 4:2:2 Lite/4:2:2 SQ/4:4:4 SQ/4:4:4 HQ 23.98PsF, 24PsF, 25PsF, 29PsF, 50p, 59.94p, 50i, 59.94i 720 4:2:2 50p, 59.94p
VTR	
	1080 4:2:2/4:4:4 SQ/4:4:4 HQ 23.98PsF, 24PsF, 25PsF, 29PsF, 30PsF, 50i, 59.94i, 60i 720 4:2:2 50p, 59.94p
DATA	
	29.97PsF, 25PsF
File Format	
	DPX RGB/YPbPr 8/10/16 bit CIN RGB 8/10/16 bit TIFF RGB 8/16 bit (Max. image size: 4096 x 3112, 1 element file) MXF (4:2:2Lite/4:2:2SQ/4:4:4SQ SRMemory or HDCAM tape import only)
On-board Function	
	1D LUT, Down converter, Color space conversion
Supplied Accessories	
	Rack Mount Angle (1), Installation Manual (1), Operation Manual (1)

SR-PC4	
General	
Power Requirements	DC 19.5 V
Power Consumption	120 W (with all options)
Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Mass	3.9 kg (8 lb 9 oz)
Dimensions (W x H x D)	88 x 250 x 231 mm (3 1/2 x 9 7/8 x 9 1/8 inches) (excluding protrusion)
Video (422 Format)	
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz
Quantization	10 bits/sample
Compression	MPEG-4 SSIP
Video (444 Format)	
Sampling Frequency	RGB: 74.25 MHz
Quantization	10 bits/sample, 12 bits/sample
Compression	MPEG-4 SSIP
Digital Audio	
Sampling Frequency	48 kHz
Quantization	24 bits/sample
Headroom	20/18 dB
Analog Audio	
D/A Quantization	24 bits/sample
Input/Output	
Output	
Auxiliary Output	BNC (x1) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Input/Output	
Ethernet	RJ-45 jack (x1), 1000BASE-T
Option	PCI Express slot (x1) (PCI Express x4 Gen1)
Supported Format	
SRMemory	
	1080 4:2:2 Lite/4:2:2 SQ/4:4:4 SQ/4:4:4 HQ 23.98PsF, 24PsF, 25PsF, 29PsF, 50p, 59.94p, 50i, 59.94i 720 4:2:2 50p, 59.94p
File Format	
	MXF (4:2:2Lite/4:2:2SQ/4:4:4SQ)
On-board Function	
	1D LUT, Down converter, Color space conversion
Supplied Accessories	
	AC Adapter (1), Installation Manual (1), Operation Manual (1)

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