



## 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 escalating demands to store more image data at a lower cost of ownership, Sony proudly announces the SRMASTER™ family of products; a new breed of storage products that are based on cutting edge solid-state recording technology and high-speed file based network connectivity. From HDTV production to 3D and 4K Cinema production, SRMASTER offers the best in recording speed, image 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 the supported recording/playback formats and scheduling, 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 HD television to 4K cinema production. The SRMASTER format includes both MPEG-4 SSiP (Simple Studio Profile) and F65RAW recordings.

MPEG-4 SSiP is the image-compression scheme that's used by the HDCAM-SR™ VTR product range. Fully tested and proven, SSiP is an intraframe visually lossless compression algorithm that records 10 or 12-bit RGB 4:4:4 or 10-bit 4:2:2 image files. In addition to the existing SR-HQ (880 Mbps) and SR-SQ (440 Mbps) modes, SRMASTER products support a new compression level called SR-Lite (220 Mbps) to support HDTV production.

Up to 16 channels of uncompressed audio and metadata can be recorded, all in an industry-standard MXF wrapper.

The new F65 Digital Motion Picture Camera outputs a super-rich 16-bit RAW signal and SRMASTER is the only viable recording technology that can sustain real-time recording of F65RAW files without missing a frame.\*\*\* Thanks to the wide-bandwidth recording of SRMemory™ cards, up to 59 minutes of F65RAW images at 24p or up to 24 minutes of 120p high-frame-rate images can be recorded on a single 1 TB SRMemory Card.

## Multi-format & Future-proof

SRMASTER products support 3G-SDI (SMPTE 424M) for a real-time image, audio, and data interface. All SRMASTER products support full-bandwidth RGB 4:4:4, 4:2:2/1080/60p, and 3D stereoscopic recording, while certain products additionally support real-time 4K (4096 x 2160) and QFHD (3840 x 2160) recording and playback. Depending on the SRMemory card speed, multiple camera streams can be recorded and played back simultaneously from a single card.\* In addition, native recording 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 Units.

\* On the SR-R1000 Recorder.

\*\*\* As of September, 2011.

## SRMemory – High-speed, High-capacity Removable Storage

The SRMASTER Series utilizes Sony's SRMemory™ Card as its recording media. SRMemory cards are unique in the industry for achieving a guaranteed read/write speed up to 5.5 Gbps, and offering a storage capacity up to 1 TB, within a small, light removable device. Unlike other general purpose IT memory cards, SRMemory guarantees the data throughput thanks to Sony's proprietary memory-control algorithm. With this extreme recording and playback capability, SRMemory is the ideal storage device for multi-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 unlikely event a memory chip failure is caused, for example, by a power loss during recording.\* 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 achieving content restoration in all cases.

\*\* The password protection functionality of SRMemory will be available after 2012.

### SRMASTER License Program:

Sony offers a license program to support 3rd party company's development of the SRMASTER format - which supplies technical documents and a SDK.  
For more information, please contact : [sr-license@jp.sony.com](mailto: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 high-speed multi- ingest, cache storage, and more.

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

\* For details of supported recording and playback formats and the 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 available.

## 4 x Dual-stream Channels

The SR-R1000 comes standard with 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 Input/Output boards.

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

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 3D Stereoscopic Operations - 1080p 3D & RGB 3D

The SR-R1000 brings a new level of 3D production to live production and post-production. Each of the SR-R1000's A/V channels come 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, and 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 or 2K signal, the SR-R1000 can record 4K images (3840x2160 and 4096x2160) over quad HD-SDI or quad 3G-SDI.

\* Super Slow Motion (1080i) will be supported in 2012.

## 16-channel Audio

Each A/V channel supports 16-channel uncompressed digital audio (24-bit, 48 kHz), along with 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 a live event finishes, for example, the user can instantly eject the SRMemory Cards and immediately bring them to the editing facility - no more wasting time waiting for your 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 (4TB)	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-HQ	880 Mbps	8 hours	16 hours	24 hours

## Network Capability

The SR-R1000 has 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 a quad-split display.

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

## Versatile Control Protocol & Interoperability

Each of the SR-R1000's A/V Channels can be fully and independently controlled by switchers and slow-motion controllers. The system is compatible with 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 NLE's, 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

Two portable recorders are offered in order 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 F65 Digital 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 and playback formats and the schedule of the SR-R1, please refer to the "Supported Format" table on page 14.

### SR-R1

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

#### Main Features

- HD-SDI and 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
- Available SR-HQ including RGB 12-bit and uncompressed recording with the optional:SRK-R311
- 16 channels of 24-bit audio
- 3D stereoscopic (dual-stream) mode (up to 29.97p, RGB 4:4:4 dual-stream recording is optional)
- DC operation
- Timecode In/Out
- Control panel supplied
- RS-422 remote control
- Dockable style operation with Sony camcorders (with an optional adaptor)



SR-R1 Connectors



HDW-F900R with SR-R1 attached\*

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

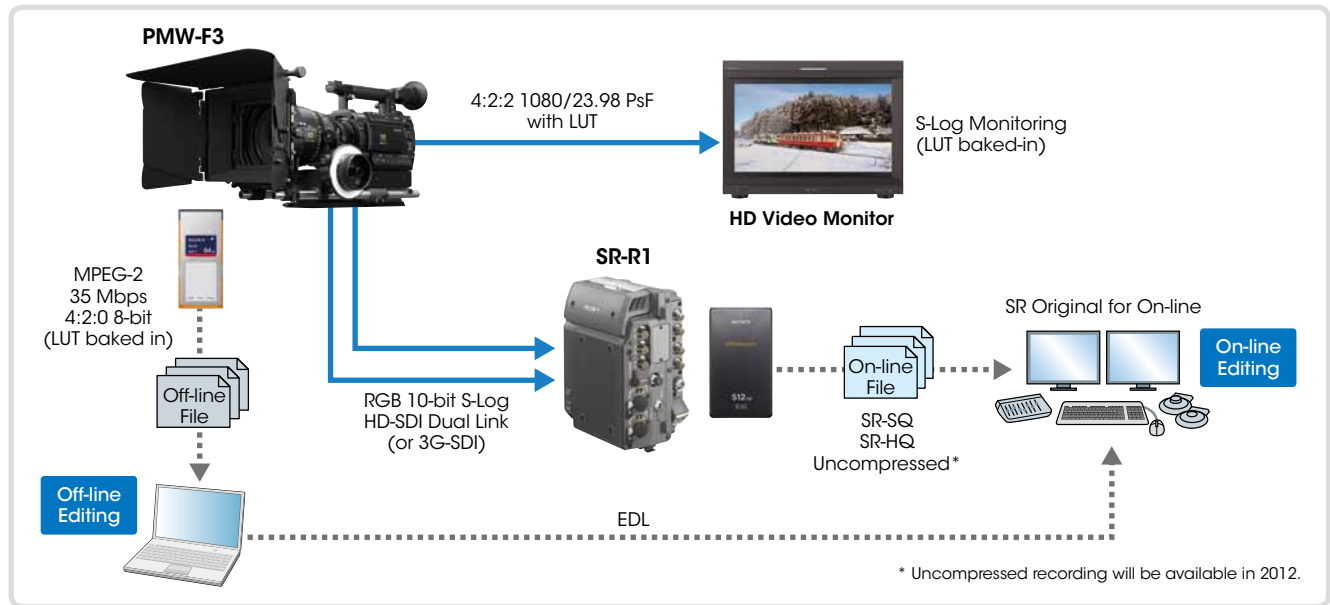
## Perfect Companion Storage for the PMW-F3

The SR-R1 offers a high-quality online storage solution for Sony's PMW-F3. SR-quality recording is provided with SRMemory Cards while MPEG-2 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 – 17fps to 60 fps in 4:2:2 and 17 fps to 30 fps in RGB 4:4:4
- Synchronized REC trigger
- Simultaneous recording SxS Cards (for off-line) and SRMemory Cards (for 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 to be the 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 16-bit RAW data from the F65 at speeds up to 5.5 Gbps. Together with the newly-developed, state-of-the-art F65 imager, the SR-R4 delivers amazing, never-seen-before image quality.

Furthermore, HD recording in the MPEG-4 SSiP format\* is also available with the F65 and SR-R4.

### Main Features

- Dockable with the F65 Camera
- F65RAW (16-bit Linear) recording
- 59 minutes of RAW recording on a 1 TB SRMemory™ Card at 24 fps
- 120 fps high frame rate recording
- HD MPEG-4 SSiP recording\*
- Select FPS – variable frame rate image capturing from 1 to 60 fps in normal mode, and 1 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 2012.



### Optional Accessory



SRK-CP1 Control Panel

## F65 Digital Motion Picture Camera

The F65 is Sony's brand-new, top-of-the-line 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 beyond 4K, as industry needs evolve.

### Main Features

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





## SR-PC5 Memory Data Transfer Unit

The SR-PC5\* is a rack mount 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. In addition, it can duplicate materials to HDCAM-SR Tape.

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



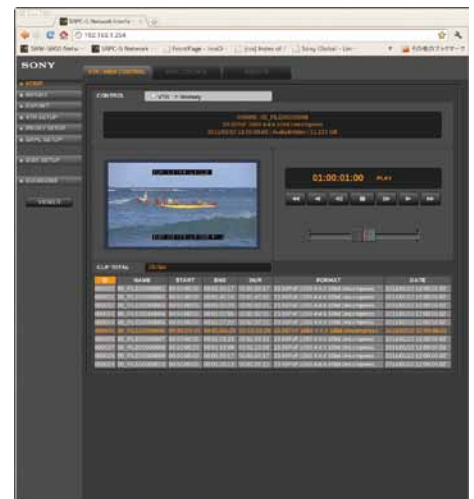
### Main Features

- **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\*, up to twice\*\* the normal playback speed
- **Simple Viewing**
  - When material is recorded in SR Video mode, it can be browsed and viewed on broadcast monitors.
- **Tape Backup\***
  - When connected to SRW-5800, the materials on SRMemory can be duplicated to HDCAM-SR tape without a decode/re-encode processes. Users can simply duplicate the entire SRMemory contents or selected clips.
- **1RU high frame, fitting a 19-inch rack unit**

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

\*\* Refers to MXF files.

\*\*\* Transfer speed dependent on host hardware.



## SR-PC4 Memory Data Transfer Unit

The SR-PC4\* is a SRMemory™ Data Transfer Unit specifically designed for a portable environment. It can be smartly integrated into a PC-based production environment such as an on-set video village, on-set dailies system, or production office. Materials shot by the F65 can be instantly reviewed via the SR-PC4's web-based GUI.

\* For details of supported playback formats and the 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

\*\*\* Transfer speed dependent on host hardware.



## 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 and 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 support 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), use of an SRMemory Card may be limited.

### Main Features

- Up to 5.5 Gbps sustain read/write speed
- Compact, high-capacity removable media
  - 2 3/8 x 3/8 x 4 1/4 inches, 3.5 oz  
(60 x 9.4 x 105 mm, approximately 100 g)
  - Up to 1 TB storage capacity
- HD to 4K real-time and multi-stream recording
  - YPbPr 4:2:2, RGB 4:4:4, 1080 59.94p, 3D, 4K, and uncompressed
- High data security and 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		
	Speed		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), a portion of the card capacity is used for system files and may vary. 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 SR Viewer (Version 1.10\*)

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

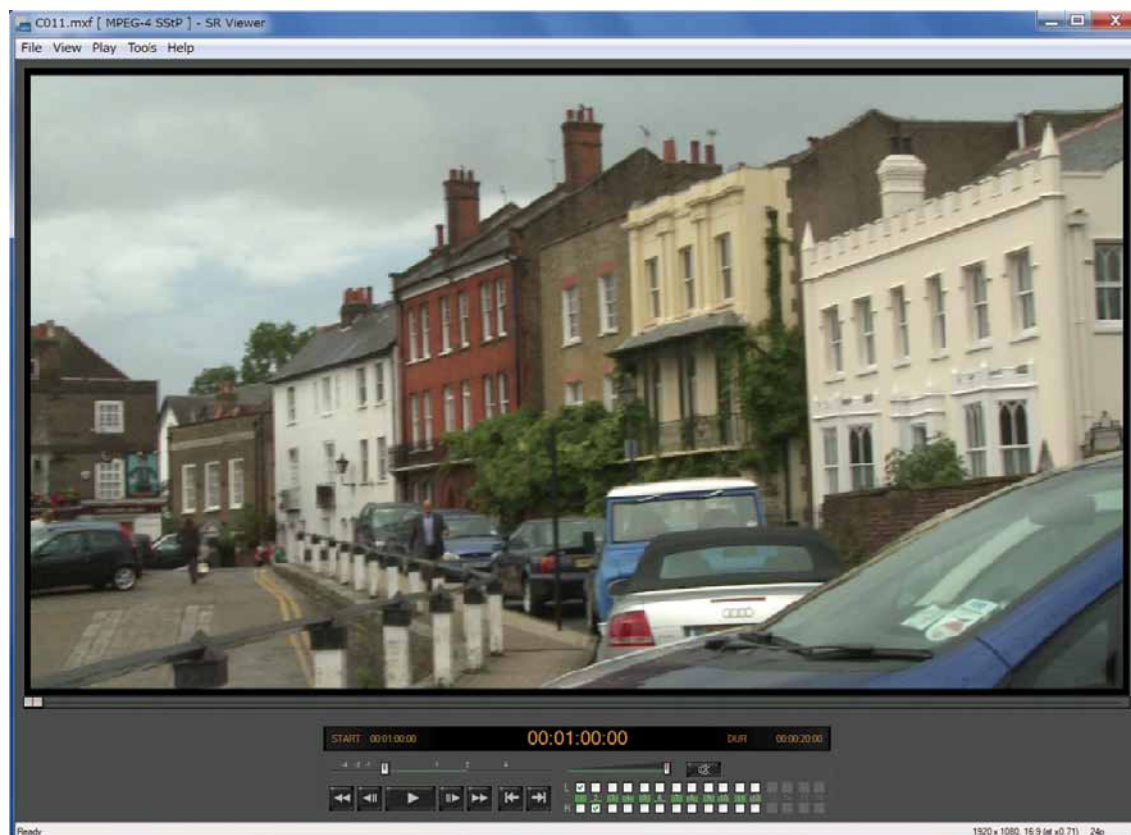
### Functionally

- Viewing SSiP 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 SSiP MXF format files to sequentially-numbered DPX files
- Converts MXF V1.2 format files to MXF V1.3 files

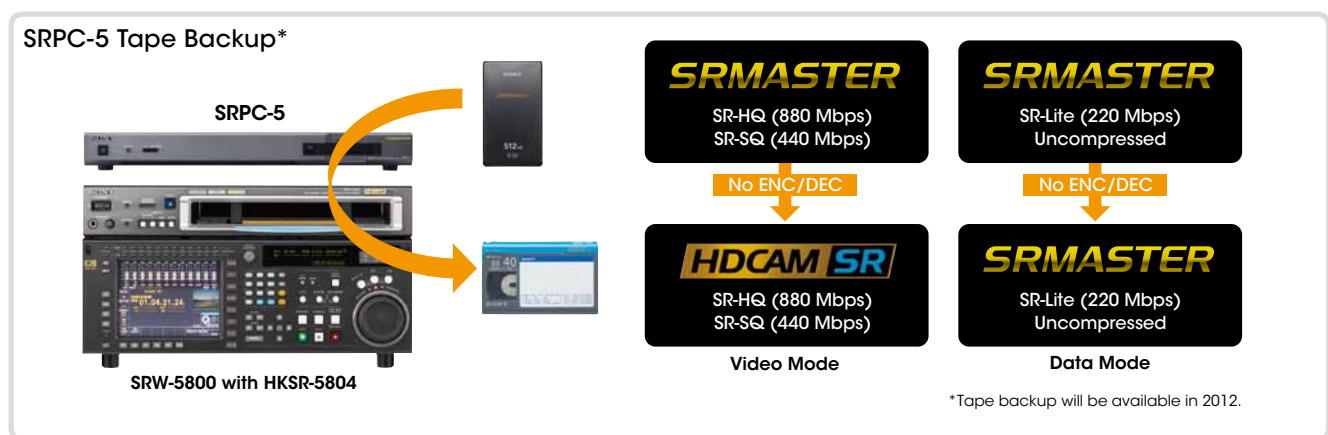
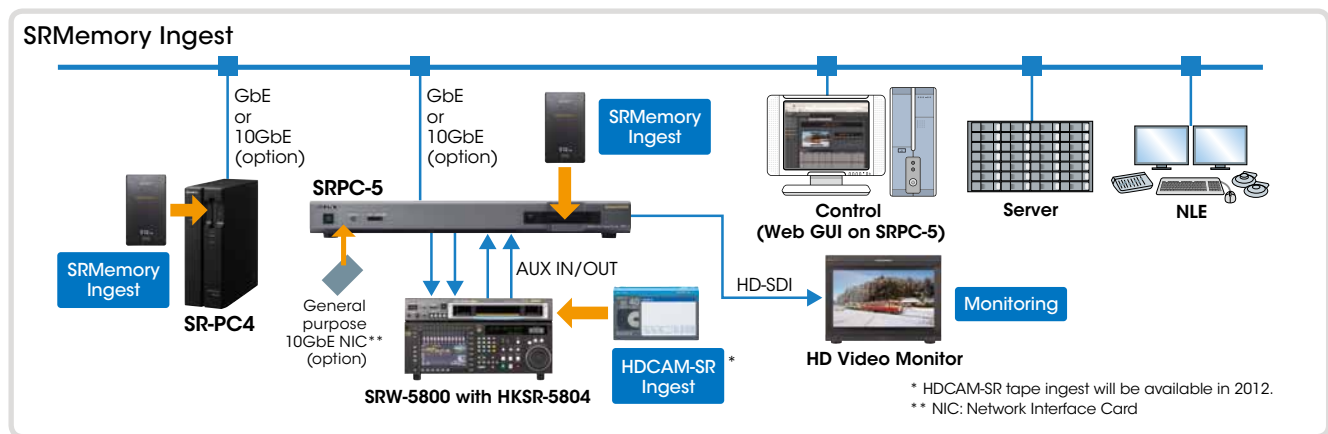
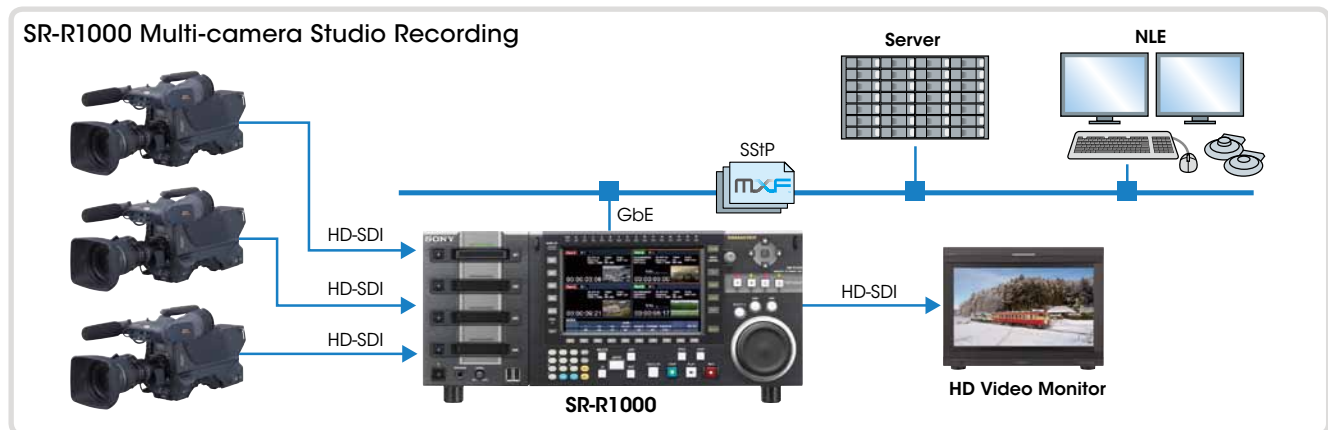
### System Requirements

- 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



# 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		
<b>General</b>		
Recording Format	MPEG-4 SSiP format	
Power Requirements	100 to 240 V AC	
Power Consumption	Max. 480 W	
Operating Temperature	41 °F to 104 °F (5 °C to 40 °C)	
Storage Temperature	-4 °F to +140 °F (-20 °C to +60 °C)	
Humidity	25% to 90% (no condensation)	
Weight	50 lb 11 oz (23 kg) (with all options)	
Dimensions (W x H x D)	16 7/8 x 6 7/8 x 21 5/16 inches (427 x 174 x 540 mm) (excluding protrusion)	
<b>Video (422 Format)</b>		
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz	
Quantization	10 bits/sample	
Compression	MPEG-4 SSiP	
<b>Video (444 Format)</b>		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample*	
Compression	MPEG-4 SSiP	
<b>Digital Audio</b>		
Sampling Frequency	48 kHz	
Quantization	24 bits/sample	
Headroom	20/18/16/15/12/9 dB selectable	
<b>Analog Audio</b>		
D/A Quantization	24 bits/sample	
<b>Input/Output</b>		
<b>When the SRK-R201 is installed (optional)</b>		
HD-SDI Input	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPT 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPT 424M)
	Input Monitor A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPT 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPT 424M)
HD-SDI Output	Multi	BNC (x1) HD-SDI (1.485 Gbps) (SMPT 292M/BTA-S004B standard)
	Monitor*	BNC (x1) HD-SDI (1.485 Gbps) (SMPT 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	
<b>When the SRK-R202 is installed (one SRK-202 is included as standard)</b>		
HD-SDI Output	A/B	BNC (x6) (MONITOR includes character superimpose) HD-SDI (1.485 Gbps) (SMPT 292M, BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPT 424M)
	Multi Monitor*	BNC (x1) HD-SDI (1.485 Gbps) (SMPT 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	
<b>SR-R1000 Standard Input/Output</b>		
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		
<b>General</b>		
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	32 °F to 104 °F (0 °C to 40 °C)	
Storage Temperature	-4 °F to +140 °F (-20 °C to +60 °C)	
Humidity	10% to 95% (no condensation)	
Weight	4 lb 3 oz (1.9 kg) (excluding control panel and SRMemory card)	
Dimensions (W x H x D)	5 5/8 x 3 7/8 x 7 1/2 inches (141 x 97 x 190 mm) (excluding protrusion)	
<b>Video (422 Format)</b>		
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz	
Quantization	10 bits/sample	
Compression	MPEG-4 SSiP, Uncompressed*	
<b>Video (444 Format)</b>		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample*	
Compression	MPEG-4 SSiP, Uncompressed*	
<b>Digital Audio</b>		
Sampling Frequency	48 kHz (synchronized with video)	
Quantization	24 bits/sample	
Headroom	20 dB	
<b>Analog Audio Input</b>		
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)	
<b>Input/Output</b>		
<b>Input</b>		
HD-SDI Input	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPT 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPT 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 (SMPT 12M standard)	
Auxiliary Input (Digital Audio)	BNC (x1) HD-SDI embedded audio (1.485 Gbps)	
<b>Output</b>		
Timecode Output	BNC (x1) 1.0 Vp-p (75Ω), 2.2 Vp-p (10 kΩ) (SMPT 12M standard)	
HD-SDI Output	A/B	BNC (x2) HD-SDI (1.485 Gbps) (SMPT 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPT 424M)
	Earphones	Stereo mini-jack (x1)
<b>Input/Output</b>		
Remote	LEMO 14-pin (female) (x1)	
Control Panel	Control panel connector (x1)	
<b>Supplied Accessories</b>		
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		
<b>General</b>		
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	32 °F to 104 °F (0 °C to 40 °C)	
Storage Temperature	-4 °F to +140 °F (-20 °C to +60 °C)	
Humidity	10% to 95% (no condensation)	
Weight	3 lb 15 oz (1.8 kg) (excluding SRMemory card)	
Dimensions (W x H x D)	5 5/8 x 3 3/8 x 7 1/2 inches (141 x 89 x 190 mm) (excluding protrusion)	
<b>F65RAW</b>		
RAW Signal	F65RAW	
Quantization	16 bits linear	
Compression	Sony original	
<b>Video (444 Format)*</b>		
Sampling Frequency	RGB: 74.25 MHz	
Quantization	10 bits/sample, 12 bits/sample	
Compression	MPEG-4 SSiP	
<b>Digital Audio</b>		
Sampling Frequency	48 kHz (synchronized with video)	
Quantization	24 bits/sample	
Headroom	20 dB	
<b>Analog Audio</b>		
D/A Quantization	24 bits/sample	
<b>Input/Output</b>		
<b>Input</b>		
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)	
<b>Output</b>		
Timecode Output	BNC (x1) 2.2 Vp-p, low impedance (SMPT 12M standard)	
Earphones	Stereo mini-jack (x1)	
<b>Input/Output</b>		
Control	LEMO 9-pin (female) for control panel (x1)	
<b>Supplied Accessories</b>		
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	
<b>General</b>	
Power Requirements	100 to 240 V AC (50/60 Hz)
Power Consumption	120 W (with all options)
Operating Temperature	41 °F to 104 °F (5 °C to 40 °C)
Storage Temperature	-4 °F to +140 °F (-20 °C to +60 °C)
Weight	22 oz (10 kg)
Dimensions (W x H x D)	1 6 7/8 x 1 3/4 x 21 1/2 inches (427 x 43.6 x 546 mm) (excluding protrusion)
<b>Video (422 Format)</b>	
Sampling Frequency	Y: 74.25 MHz, Pb/Pr: 37.125 MHz
Quantization	10 bits/sample
Compression	MPEG-4 SSiP
<b>Video (444 Format)</b>	
Sampling Frequency	RGB: 74.25 MHz
Quantization	10 bits/sample, 12 bits/sample
Compression	MPEG-4 SSiP
<b>Digital Audio</b>	
Sampling Frequency	48 kHz
Quantization	24 bits/sample
Headroom	20/18 dB
<b>Analog Audio</b>	
D/A Quantization	24 bits/sample
<b>Input/Output</b>	
<b>Input</b>	
Auxiliary Input	BNC (x2) for uncompressed data dubbing between SRW-5800s
<b>Output</b>	
Auxiliary Output	A/B BNC (x2) HD-SDI (1.485 Gbps) (SMPTÉ 292M/372M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTÉ 424M)
<b>Input/Output</b>	
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)
<b>Supported Format</b>	
<b>SRMemory</b>	
	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
<b>VTR</b>	
	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
<b>DATA</b>	
	29.97PsF, 25PsF
<b>File Format</b>	
	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)
<b>On-board Function</b>	
	1D LUT, Down converter, Color space conversion
<b>Supplied Accessories</b>	
	Rock Mount Angle (1), Installation Manual (1), Operation Manual (1)

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

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