



SR-R1000

Memory Storage Unit

SR-R1/SR-R4

Portable Memory Recorder

SR-D1

Memory Drive Unit

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 cutting-edge 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*¹



SR-R1000
Memory Storage Unit



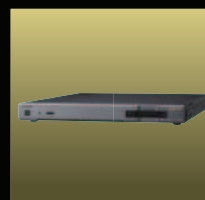
SR-R1
Portable Memory Recorder



SR-R4
Portable Memory Recorder



SR-D1
Memory Drive Unit



SRPC-5
Memory Data Transfer Unit



SR-PC4
Memory Data Transfer Unit

*¹ For details of supported recording/playback formats, 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.

MPEG-4 SStP is the image-compression scheme that is 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. In addition to the existing SR-HQ (880 Mbps) and SR-SQ (440 Mbps) mode, SRMASTER products support an additional compression level called SR-Life (220 Mbps at 1080/59i) to support HDTV program production. Up to 16 channels of uncompressed audio track and associated metadata can be recorded, all in an industry-standard MXF wrapper.

The new F65 digital motion picture camera outputs super-rich 16-bit linear 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 100 minutes of F65RAW-Lite footage at 24p or up to 24 minutes of 120p high-frame-rate image 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, 4:2:2/1080/60p, and stereoscopic 3D recording, while certain products additionally support real-time 4K (4096 x 2160) and QFHD (3840 x 2160) recording and playback. Depending on SRMemory card speed, multiple camera streams can be recorded and played back simultaneously from a single card.*¹ In addition, 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.

*¹ On the SR-R1000 recorder only.

SRMemory – High-speed, High-capacity Removable Storage

The SRMASTER Series utilizes Sony 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 small, light removable device. 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 and playback capability, SRMemory cards are ideal storage devices for multiple HD camera work including 3D production, high-frame-rate recording, and high-resolution digital cinematography.

High Reliability

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 power loss during recording.*¹

*¹ 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.

SRMASTER License Program:

Sony offers a license program to support third-party development for the SRMASTER format. The program includes supply of technical documents and an SDK. For more information, please contact: sr-license@jp.sony.com.

SR-R1000 Memory Storage Unit

The SR-R1000*¹ 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 slow replay, clip feeder, high-speed multi- ingest, cash 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 to professional creativity.

*¹ For details of supported recording/playback formats, 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.

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 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 play back one pair of 3D stereoscopic signals or key/fill signals with just 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, and 4K

Building on the extraordinary multi-format recording capability of HDCAM-SR VTRs, the SR-R1000 supports the following formats: 1280 x 720/4:2:2, 1920 x 1080/4:2:2, 1920 x 1080/4:4:4, and 2048 x 1080/4:4:4.

When configured to handle four streams of HD/2K signal, the SR-R1000 can record 4K images (3840 x 2160, 4096 x 2160) over quad HD-SDI or quad 3G-SDI.

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)*¹

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 data to off-load.

*¹ Up to 8 TB of internal fixed memory storage will be available in future.

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	16 hours	32 hours	48 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.

Format Converter & Multi-monitor Output

The SRK-R202 HD Output Board is equipped with an internal format converter that provides 1080i outputs from 1080p recordings and cross-conversion between 4:2:2 and 4:4:4. Multi-monitor output*¹ enables real-time monitoring of all four SR-R1000 video channels in quad-split display.

*¹ Multi-monitor output will be available in future.

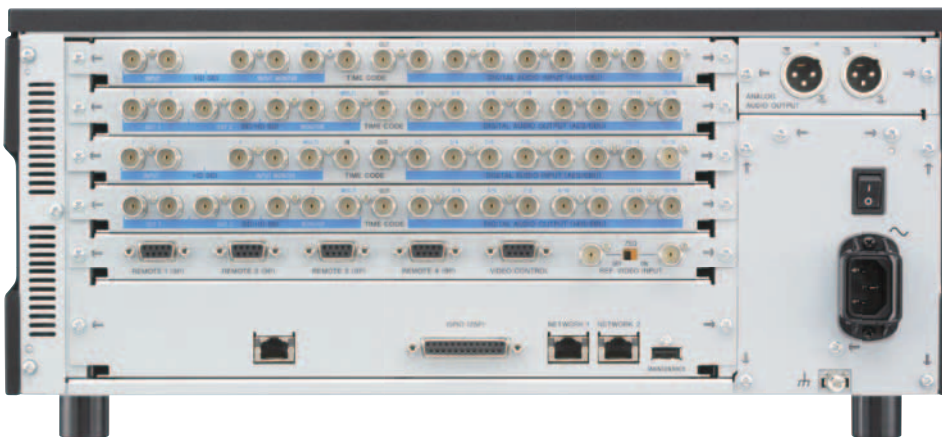
Versatile Control Protocol & Interoperability

Each A/V channel of the SR-R1000 can be fully and independently controlled by switchers and slow-motion controllers. The system is compatible with the most popular control protocols such as Sony's VTR/Disk protocol and VDCP.*¹ 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.

*¹ VDCP protocol will be supported in future.

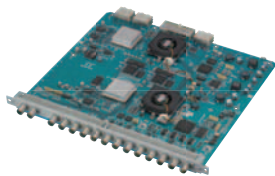


SR-R1000 Front Panel

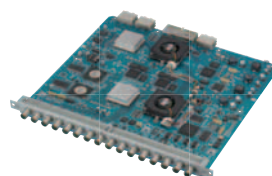


SR-R1000 Rear Panel
(SRK-R201/R202 boards are installed.)

Optional Accessories



SRK-R201 HD Input Board



SRK-R202 HD Output Board

SR-R1 Portable Memory Recorder

The SR-R1*1 is a 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 ideal for 3D stereoscopic recording.

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

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/SR-SQ/SR-HQ recording
- 16 channels of 24-bit audio
- 3D stereoscopic (dual-stream) mode (up to 29.97p)
- DC operation
- Time code In/Out
- Control panel supplied
- RS-422 remote control
- Dockable style operation with Sony camcorders (via optional SRK-R302 adaptor)



SR-R1 Connectors

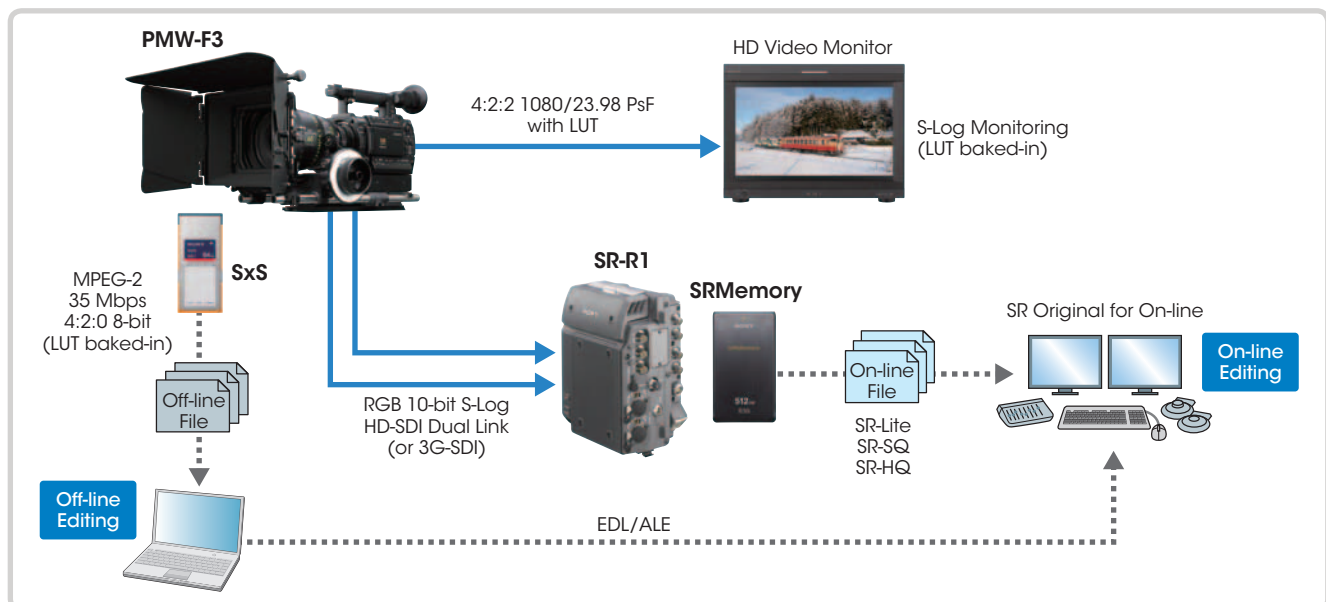
Perfect Companion Storage for PMW-F3

The SR-R1 offers a high-quality on-line storage solution for Sony 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 time codes 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 cards (off-line) and SRMemory cards (on-line) with synchronized time codes



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



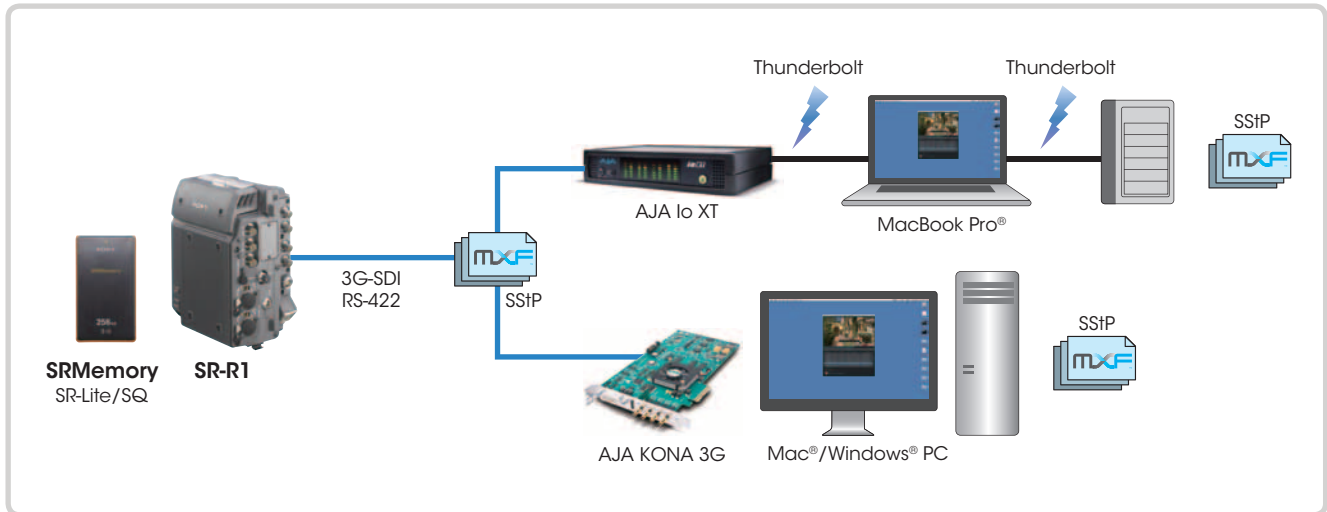
SRExpress – SR-R1 Fast File Ingest

To provide an affordable and fast file ingest solution, the SR-R1 adopts a newly developed SRExpress™ interface. This allows the SR-R1 to directly connect to an AJA Io XT or KONA 3G unit using 3G-SDI and transfer files on an SRMemory card. This system realizes faster-than-real-time file transfer – 60 minutes of SR-Lite footage can be ingested in less than 15 minutes*.

* Actual transfer speed varies based upon the measurement conditions.



SRExpress Workflow



Optional Accessories



Chrosziel Accessories



SR-R4 Portable Memory Recorder

The SR-R4*1 is exclusively designed as the companion dockable recorder for Sony F65 digital motion picture camera. It takes full advantage of the ultra-high-speed SRMemory platform to record RAW data from the F65 camera at a speed 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 the MPEG-4 SStP format is also available with the F65 and SR-R4 for HDTV program production.

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

Main Features

- Direct docking to the F65 camera; no external cable required
- F65RAW (16-bit linear RAW) recording - F65RAW-Lite/F65RAW-SQ/F65RAW-HFR
- 60 minutes of F65RAW-SQ recording on 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 120 fps
- Up to 16 channels of 24-bit audio recording
- Two channels of analog audio inputs
- Time code In/Out
- Control panel (option: SRK-CP1)



Optional Accessory



SRK-CP1 Control Panel



BKW-R4 Battery Adaptor



SR-D1 Memory Drive Unit

The SR-D1 is a compact and affordable SRMemory drive unit for use with PCs. It opens up the power of the F65 camera and SRMASTER workflow to a wider audience, including on-set dailies and post-production. PCs installed with SR-D1 driver software can be connected easily to the SR-D1 via USB3.0 or eSATA. A dedicated viewing software (F65RAW Viewer/SR Viewer) can be used to review materials on SRMemory media.

Main Features

- Highly compact and lightweight design for use on the desktop or on location
- High-speed file transfer
- Supports HD SStP and F65RAW formats
- Direct access to files on SRMemory media from a PC
- Drag-and-drop file transfer
- USB 3.0 and eSATA interfaces
- DC operation (AC adaptor supplied)



SRPC-5 Memory Data Transfer Unit

The SRPC-5*¹ 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 (SRControl), which is used for viewing and ingesting SRMemory content for review. In addition, it can duplicate valuable materials to HDCAM-SR tape.

*¹ For details of supported playback formats, please refer to the "Supported Format" table on page 14.



Main Features

- Fast data transfer from SRMemory cards to servers and/or NLEs via GbE or an optional 10GbE*¹ network interface; files and clips can be easily browsed using the SRPC-5 GUI (SRControl)
- Fast ingest from HDCAM-SR tapes*², up to twice*³ the normal playback speed
- Direct data backup*² to HDCAM-SR tape when connected to SRW-5800
- Direct data copy to shuttle drives via an optional eSATA (host)*¹ interface
- 1RU high frame, fitting a 19-inch rack unit

*¹ Requires a third-party PCIe card.

*² HDCAM-SR tape ingest and tape backup function will be supported in future.

*³ Refers to MXF files.



SR-PC4 Memory Data Transfer Unit

The SR-PC4*¹ is an SRMemory data transfer unit specifically designed for the on-set production environment. It can be smartly integrated into commodity PC-based production tools such as on-set dailies systems and color grading systems. Materials shot by the F65 camera can be instantly reviewed via the SR-PC4 web-based GUI (SRControl) immediately after shooting.

*¹ For details of supported playback formats, please refer to the "Supported Format" table on page 14.

Main Features

- DC operation (AC adapter supplied)
- Fast data transfer from SRMemory card to servers and/or NLEs via GbE or an optional 10GbE*¹ network interface; files and clips can be easily browsed by the SR-PC4 GUI (SRControl)
- F65RAW monitoring via HD-SDI connection
- Direct data copy to shuttle drives via an optional eSATA (host)*¹ interface

*¹ Requires a third-party PCIe card.



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



The SRMemory card is an ultra-high-speed, high-capacity, and high-reliability flash memory media for SRMASTER Series products. It is ideal for demanding professional applications including high-resolution digital cinematography, high-frame-rate recording, and 3D production. The SRMemory card lineup 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 play back multiple streams simultaneously, and it supports data rates that can handle up to 4K.*²

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

*² 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.

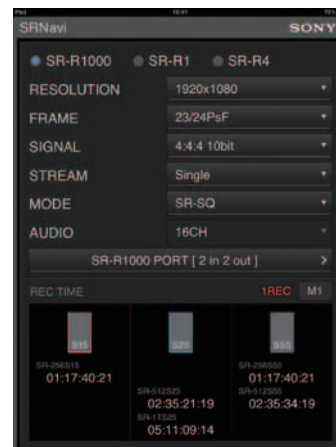
Main Features

- Up to 5.5 Gbps ultra-high-speed sustainable read/write speed
- Compact (approx. 100 g), high-capacity (up to 1 TB) removable media
- HD to 4K real-time and multi-stream recording (YPbPr422, RGB444, 1080 59.94p, 3D, and 4K)
- Sony's original data redundancy method for high data reliability

SRNavi




SRNavi is web-based application software that runs on tablet devices*¹ to check the maximum recording time on each SRMemory card in a selected recording format to find a suitable card. It also tells which cards are usable to accommodate the required data throughput for a planned configuration and format. For more information, please visit the following URL: www.pro.sony.eu/srnavi.

*¹ Supported tablet devices: iPad®, iPod touch®, iPhone® and Android™ devices.



Maximum Recording Time (Approximate)

Unit: min

Model Name				SR-256S15	SR-512S25	SR-1TS25	SR-256S55	SR-512S55	SR-1TS55 *
Speed				1.5 Gbps	2.5 Gbps	2.5 Gbps	5.5 Gbps	5.5 Gbps	5.5 Gbps
Capacity				256 GB	512 GB	1 TB	256 GB	512 GB	1 TB
RAW/HD	Bit Depth	Recording Mode	Frame Rate						
F65RAW	16-bit Linear	F65RAW-Lite	23p/24p	25	50	101	25	50	101
			25p	24	48	97	24	48	97
			29p	20	40	81	20	40	81
			S59p/S60p	N/A	N/A	N/A	10	21	41
		F65RAW-SQ	23p/24p	N/A	30	61	15	30	61
			25p	N/A	29	58	14	29	58
			29p	N/A	24	48	12	24	48
			S59p/S60p	N/A	N/A	N/A	6	12	24
F65RAW-HFR	S119p/S120p	N/A	N/A	N/A	6	12	24		
HD SSIP	4:2:2 10-bit	SR-Lite	50i	137	274	549	137	274	549
			59i	114	228	457	114	228	457
			23PsF/24PsF	142	285	572	142	285	572
			25PsF	137	274	549	137	274	549
			29PsF	114	228	457	114	228	457
			50p	72	144	290	72	144	290
	4:2:2 10-bit	SR-SQ	59p	60	120	241	60	120	241
			50i	72	144	290	72	144	290
			59i	60	120	241	60	120	241
			23PsF/24PsF	75	150	302	75	150	302
			25PsF	72	144	290	72	144	290
			29PsF	60	120	241	60	120	241
	4:4:4 10-bit	SR-SQ	50p	38	76	153	38	76	153
			59p	32	64	128	32	64	128
			50i	72	144	290	72	144	290
			59i	60	120	241	60	120	241
			23PsF/24PsF	75	150	302	75	150	302
			25PsF	72	144	290	72	144	290
	4:4:4 12-bit	SR-HQ	29PsF	60	120	241	60	120	241
			50i	38	76	153	38	76	153
			59i	32	64	128	32	64	128
			23PsF/24PsF	40	80	160	40	80	160
			25PsF	38	76	153	38	76	153
			29PsF	32	64	128	32	64	128

*SR-1TS55 card will be available in summer 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°F to +176°F (-40°C to +80°C)/95% or less (non condensation)
Dimensions	2 3/8 x 3/8 x 4 1/4 inches (60 x 9.4 x 105 mm) (excluding protrusions)
Weight	Approx. 3.5 oz. (100 g)
Supplied accessories	Card case, Card label sheet, Operation Manual

* SR-1TS55 card will be available in summer 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 SSiP 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 SRV-10 software.

Functionalities

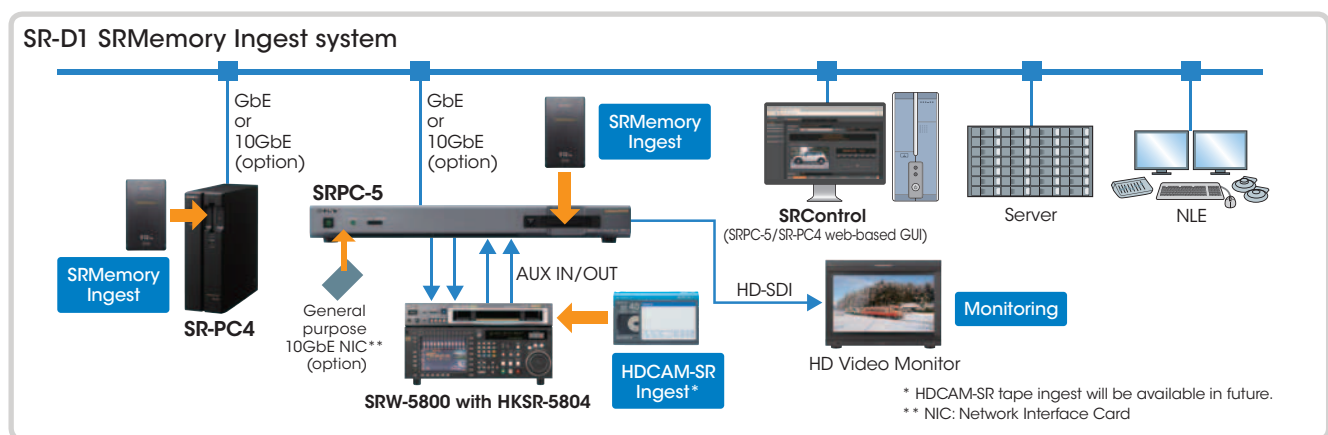
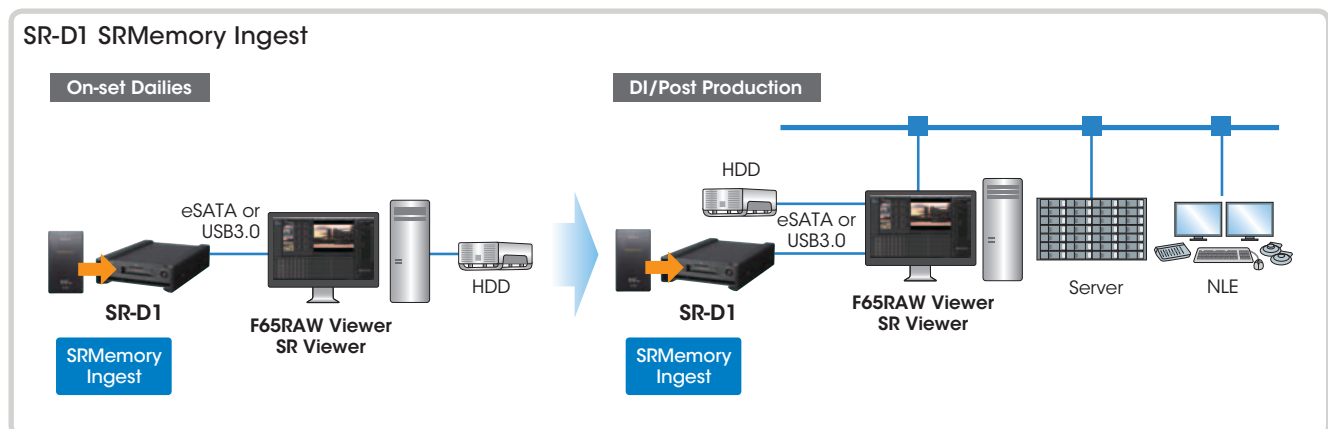
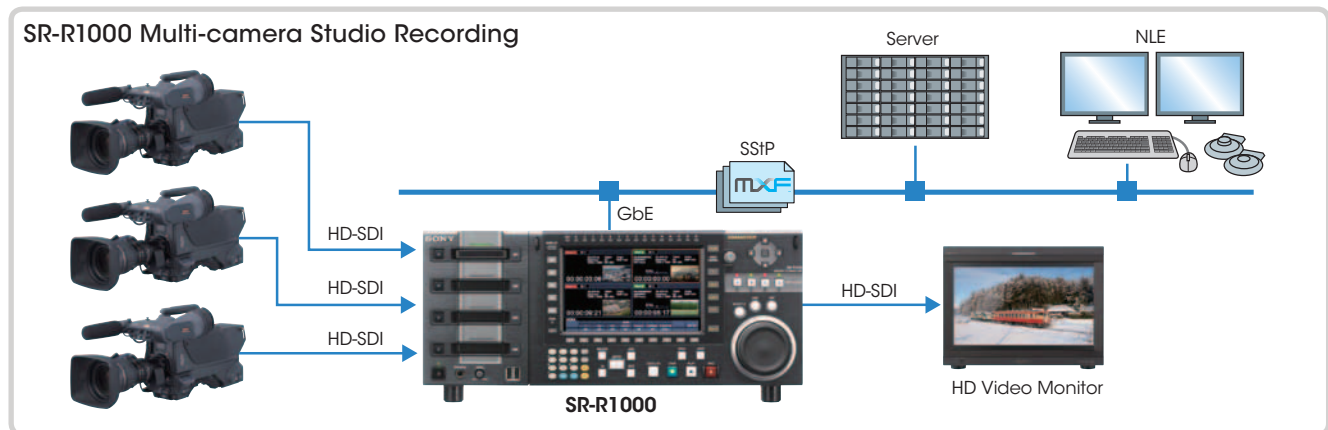
- Allows SSiP MXF files to be viewed on a PC display and/or broadcast monitor when an HD-SDI video card is installed
- Supports 4:2:2 SR-SQ/SR-Lite and 4:4:4 SR-SQ formats
- Allows media metadata to be viewed on SRV-10 Ver.1.10
- Converts SSiP MXF format files to sequentially numbered DPX files

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, 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



System Example



Supported Format

Supported Format (2D)

Resolution	Signal	Recording Mode	Frame Rate	SR-R1000	SR-R1	SR-R4	SRPC-5/SR-PC4	SR-D1
1280 x 720	4:2:2 10-bit	SR-Lite/SR-SQ	50p/59p	x				x
1920 x 1080	4:2:2 10-bit	SR-Lite	50i/59i	x	x*1		x*1	x
			23PsF	x	x*1	x*1	x*1	x
			24PsF	x	x*1		x*1	x
			25PsF/29PsF	x	x*1	x*1	x*1	x
			50p/59p	x	x	x	x	x
			S29PsF		x*2		x*2	x
			S50p		x*3		x*3	x
			S59p		x*4	x*4	x*4	x
			S60p			x*5	x*5	x
			50i x 2 (S100i)	x	x*6		x*6	x
			59i x 2 (S119i)	x	x*7		x*7	x
			50i/59i	x	x*1		x*1	x
			23PsF	x	x*1	x*1	x*1	x
			24PsF	x	x*1		x*1	x
	25PsF/29PsF	x	x*1	x*1	x*1	x		
	50p/59p	x	x	x	x	x		
	S29PsF		x*2		x*2	x		
	S50p		x*3		x*3	x		
	S59p		x*4	x*4	x*4	x		
	S60p			x*5	x*5	x		
	50i x 2 (S100i)	x	x*6		x*6	x		
	59i x 2 (S119i)	x	x*7		x*7	x		
	4:4:4 10-bit	SR-SQ	50i/59i	x	x		x	x
			23PsF	x	x	x	x	
			24PsF	x	x		x	
			25PsF/29PsF	x	x	x	x	
			S25PsF/S29PsF		x		x	
			S59p			x*4	x*4	
S60p					x*5	x*5		
50i/59i			x	x		x		
23PsF/24PsF			x	x	x	x		
25PsF/29PsF			x	x	x	x		
4:4:4 12-bit	SR-HQ	S59p			x*4	x*4		
		S60p			x*5	x*5		
		50i/59i	x	x		x		
		23PsF/24PsF	x	x	x	x		
		25PsF/29PsF	x	x	x	x		
2048 x 1080	4:4:4 10-bit (RGB)	SR-SQ/SR-HQ	23PsF/24PsF/25PsF	x				
	4:4:4 12-bit (XYZ)	SR-HQ	23PsF/24PsF/25PsF	x				
F65RAW	16-bit Linear	F65RAW-Lite F65RAW-SQ	23p/24p			x	x	
			25p/29p			x	x	
			50p			x	x	
			59p			x	x	
			S59p			x*4	x*4	
			S60p			x*3	x*3	
		F65RAW-HFR	S119p/S120p			x	x	

x will be supported by a software upgrade. SRPC-5/SR-PC4 supports read only.

*1 Playback of SR Motion™ recordings will be supported by a software upgrade. *2 Played back at 23PsF. *3 Played back at 24PsF or 25PsF.

*4 Played back at 23PsF or 29PsF. *5 Played back at 25PsF. *6 Played back at 50i. *7 Played back at 59i.

Supported Format (3D)

Resolution	Signal	Recording Mode	Frame Rate	SR-R1000	SR-R1	SRPC-5/SR-PC4	SR-D1
1280 x 720	4:2:2 10-bit	SR-Lite/SR-SQ	50p/59p	x			
1920 x 1080	4:2:2 10-bit	SR-Lite	50i/59i	x	x	x	x
			23PsF/24PsF	x	x	x	x
			25PsF/29PsF	x	x	x	x
			50p/59p	x			x
			50i/59i	x	x	x	x
			23PsF/24PsF	x	x	x	x
			25PsF/29PsF	x	x	x	x
	4:4:4 10-bit	SR-SQ	50p/59p	x			x
			50i/59i	x	x	x	x
			23PsF/24PsF	x	x	x	x
			25PsF/29PsF	x	x	x	x
			50i/59i	x	x	x	x
			23PsF/24PsF	x	x	x	x
			25PsF/29PsF	x	x	x	x
4:4:4 12-bit	SR-HQ	50i/59i	x	x	x	x	
		23PsF/24PsF	x	x	x	x	
		25PsF/29PsF	x	x	x	x	
2048 x 1080	4:4:4 10-bit (RGB)	SR-SQ/SR-HQ	23PsF/24PsF/25PsF	x			
	4:4:4 12-bit (XYZ)	SR-HQ	23PsF/24PsF/25PsF	x			

x will be supported by a software upgrade. SRPC-5/SR-PC4 supports read only.

Specifications

SR-R1000		
General		
Recording format	MPEG-4 SSIP format	
Power requirements	100 V AC 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)	
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	
Compression	MPEG-4 SSIP	
Digital audio		
Sampling frequency	48 kHz (synchronized with video)	
Quantization	24 bits/sample	
Headroom	20/18 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/372M/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)
Time code input	BNC (x1) 0.5 to 18 Vp-p, 10 kΩ	
Time code output	BNC (x1) 2.2 Vp-p, low impedance	
Digital audio input (AES/EBU)	BNC (x8) (CH1/2 to 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)
Time code output	BNC (x1) 2.2 Vp-p, low impedance	
Digital audio output (AES/EBU)	BNC (x8) (CH1/2 to 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 will be available in future.

SR-R1		
General		
Recording format	MPEG-4 SSIP format	
Power requirements	11 V DC 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)	
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	
Compression	MPEG-4 SSIP	
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 dBu, Mic: -34 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 output	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	
Time code 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) (SMPTE 292M)	
Output		
Time code output	BNC (x1) 1.0 Vp-p (75 Ω), 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 (0.6 m) (1), Remote cable (1), Operation Manual (E) (1), (J) (1)		

Specifications

SR-R4	
General	
Recording format	F65RAW, MPEG-4 SSIP format
Power requirements	11 V DC to 17 V DC
Power consumption	Approx. 37 W (when recording at F65RAW 29.98p 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 5/8 x 7 1/2 inches (141 x 89 x 190 mm) (excluding protrusion)
F65RAW	
RAW signal	F65RAW
Quantization	16 bits linear
Compression	Sony original
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 (synchronized with video)
Quantization	24 bits/sample
Headroom	20 dB
Analog audio input	
A/D quantization	24 bits/sample
Reference input level	Line: +4 dBu, Mic: -34 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	
Time code input	BNC (x1) 0.5 to 18 Vp-p, 10 kΩ (SMPTE 12M standard)
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	
Time code output	BNC (x1) 1.0 Vp-p (SMPTE 12M standard)
Earphones	Stereo mini-jack (x1)
Input/output	
Control	LEMO 9-pin (female) for control panel (x1)
Supplied accessories	
BKP spacer (1), Operation Manual (E) (1), (J) (1)	
The SR-R4 is classified as a CLASS 1 LASER PRODUCT.	
SR-D1	
General	
Power requirements	12 V DC
Power consumption	30 W (maximum)
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	3 lb 4 oz (1.5 kg)
Dimensions (W x H x D)	6 1/8 x 1 15/16 x 9 inches (154 x 49 x 227 mm) (excluding protrusion)
Input/output	
USB3.0, eSATA	
Supplied accessories	
AC adapter (1), USB3.0 cable (1), Operation Manual (1), SR-D1 CD-ROM (1)	

SRPC-5	
General	
Power requirements	100 V AC to 240 V AC (50/60 Hz)
Power consumption	110 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)	16 7/8 x 1 3/4 x 21 1/2 inches (427 x 43.6 x 546 mm) (excluding protrusion)
Input/output	
Input	
Auxiliary input	BNC (x2) for uncompressed video 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)
Network	RJ-45 jack (x1), 1000BASE-T
Option	PCI Express slot (x1) (PCI Express x4 Gen1)
On-board function	
1D LUT, Down converter, Color space converter	
Confirmed operational environment	
Browser	Firefox, Internet Explorer, Safari, Google Chrome
NFS server	Redhat Linux E5, Mac OS v10.6
CIFS server	Windows XP, Windows 7
Supplied accessories	
Rack mount angle (1 each for left and right), Washers (4), Screws (4), SR Viewer (CD-ROM) (1), Installation Manual (1), Operation Guide (1), Operation Manual (1)	

SR-PC4	
General	
Power requirements	19.5 V DC
Power consumption	5 A (current consumption) (with all options installed)
Operating temperature	41°F to 95°F (5°C to 35°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)
Mass	8 lb 10 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)
Input/output	
Output	
Monitor output	BNC (x2) HD-SDI (1.485 Gbps) (SMPTE 292M/BTA-S004B standard) 3G-SDI (2.97 Gbps) (SMPTE 424M)
Input/output	
Network	RJ-45 jack (x1), 1000BASE-T
Option	PCI Express slot (x1) (PCI Express x4 Gen1)
On-board function	
1D LUT, Down converter, Color space converter	
Confirmed operational environment	
Browser	Firefox, Internet Explorer, Safari, Google Chrome
NFS server	Redhat Linux E5, Mac OS v10.6
CIFS server	Windows XP, Windows 7
Supplied accessories	
AC adapter (1), Rubber feet (4), SR Viewer (CD-ROM) (1), Installation Manual (1), Operation Guide (1), Operation Manual (CD-ROM) (1)	

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