

SONY



DSR-1800AP

DVCAM Studio Editing Recorder - Master Series

Professional choice without limitations.

Reflecting market demands, employing higher standards of technology and using the experiences of the DSR-2000P, we will innovate the DSR-80P by introducing new line-ups, DSR-1800P. With all these excellence and innovations available, the DSR-1800P will be a major workforce in video production fields by satisfying those highly professionals.

The DSR-1800P provides excellent performance in an editing environment. It has a full range of analogue and digital interfaces, a responsive search dial function and many other powerful features. A key advantage is playback compatibility with DV, DVCAM and DVCPRO (25 Mb/s).

Features

Playback capability of DV(25 Mb/s) format recorded tapes

The DSR-1800P has an excellent playback compatibility with all DV family formats (25 Mbps). This includes DVCPRO. Tapes of all these formats can be played back in the DSR-1800P without any special mechanical adapter or menu selection.

Excellent Digital Slow Motion

The DSR-1800P boasts excellent, noiseless, slow motion within the range of -0.5 to +0.5 times normal playback speed, in increments of 1%. This range is effective for all DV formats (25Mbps) - DV, DVCAM and DVCPRO.

Excellent Digital Jog Sound

The DSR-1800P offers excellently smooth and clear performance of jog sound within the range of -0.5 to +0.5 times normal playback speed, just like an analogue VTR. This allows easier searching for editing points especially within interviews. This is available for all DV formats (25Mbps) - DV, DVCAM and DVCPRO.

Improvement of multi-generation dubbing quality

Due to a newly developed filter colour blurring during baseband dubbing (e.g. SDI or analogue component) has been significantly reduced.

16:9 Aspect Ratio

Pictures recorded in a 16:9 aspect ratio include a wide aspect ID located in the VITC. The DSR-1800P can record or erase this ID. For example, if you don't want this ID signal to appear on a TV display, this ID can be erased. If the video signal passes through an editing or effects system this ID signal is often removed. The DSR-1800P can re-record it.

Timecode

The DSR-1800P supports not only LTC timecode conforming to the EBU format but also Vertical Interval Time Code (VITC) through all video signal interfaces. VITC enables video and timecode signals to be copied with just a single BNC cable via either the composite or SDI interfaces. It also allows users to record other timecode data in the auxiliary data area of the VITC which is especially helpful for off-line editing.

ClipLink

The DSR-1800P supports the ClipLink function. Being integrated into a NLE system with Sony EditStations, the DSR-1800P plays an active role by sending the ClipLink information data onto the EditStations to provide great efficiency through the whole editing process. Also, the DSR-1800P has a capability of full tape dubbing with ClipLink Log Data either through i.LINK (option) or a combination of SDTI (QSDI) + RS-422A.

Internal Signal Generator

The DSR-1800P incorporates an internal signal generator. This generates either colour bars (100% or 75%) or black /burst signals for video and a 1 kHz tone or silence for audio. This function is convenient for recording a pre-stripped tape prior to editing.

Reduction of mosaic noise in panning pictures

By improving the DCT motion detector, the DSR-1800P offers improvements in the picture quality especially when viewing panning pictures.

Picture quality in Slow motion

Employing the same Y-Add filter as that been used in Digital Betacam or Betacam SX VTRs, the DSR-1800P offers smooth digital slow motion picture by greatly reducing vertical jitter. This ability of the DSR-1800P is particularly apparent in the range of less than 0.5 times normal speed.

Auto Repeat function

The DSR-1800P has an Auto Repeat function that enables continuous playback between user defined IN and OUT points.

Benefits

Automatic DV format change

The DSR-1800P automatically detects DV, DVCAM and DVCPRO tape formats.

Playback of three sizes of DV, DVCAM and DVCPRO cassettes

The DV formats include not only DVCAM and DV but also the DVCPRO format. Three cassette sizes utilised for these formats. All these tapes can be played back in the DSR-1800P without any special mechanical adapter.

No need to dub up to other higher formats, which is often required on other DV VTRs

The editing functions such as digital slow motion, jog audio and DMC are all available for all DV tape formats. Superb jog audio lets you easily handle all the DV tape formats as direct editing sources. This means that, even when using DV or DVCPRO recorded tapes as editing sources, there is no need to dub to other, higher, formats.

The wide aspect ID (16:9) can be recorded or erased

Pictures recorded in a 16:9 aspect ratio include a wide aspect ID located in the VITC. The DSR-1800P can record or erase this ID. For example, if you don't want this ID signal to appear on a TV display, this ID can be erased. If the video signal passes through an editing or effects system this ID signal is often removed. The DSR-1800P can re-record it.

Minimised video degradation

Due to a newly developed filter colour blurring during baseband dubbing (e.g. SDI or analogue component) has been significantly reduced.

Save editing time

Until now frame delays in all DV VTRs have made audio dubbing very difficult. However, due to newly developed digital processing and pre-read technology the DSR-1800P has achieved the perfect synchronisation of video and audio.

No Generator required to record a pre-stripped tape

The DSR-1800P incorporates an internal signal generator. This generates either colour bars (100% or 75%) or black /burst signals for video and a 1 kHz tone or silence for audio. This function is convenient for recording a pre-stripped tape prior to editing.

Easy to locate target point

The DSR-1800P incorporates a built-in Jog/Shuttle dial on its front panel. This enables highly responsive operation, especially when searching for editing points.

Channel condition indicator gives you piece of mind

For ensuring reliable editing conditions, the DSR-1800P is equipped with a channel condition monitoring function. Three levels of error rate are indicated with a tri-colour (G/Y/R) indicator. This is effective for all DV formats (25Mbps).

Technical Specifications

Power requirements	AC 100 V – 240V 50 – 60 Hz
Power consumption	100 W (with all options)
Operation Temperature	5 C – 40 C
Storage temperature	-20C - +60 C
Operating relative humidity	Less than 80%
Storage relative humidity	Less than 90%

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Mass	13 Kg
Tape speed	28.221 mm/s
Recording/Playback time	Standard size Mini size : 184 minutes 40 minutes
FF/REW time	Standard size Mini size : Less than 3 minutes Less than 1 minutes
Search speed	Max.: 85 times normal speed, forward and reverse via RS-422A

Video performance

Band width	Luminance Chrominance : 25 Hz to 5.0 MHz +/-1.0 dB 25 Hz to 2.0 MHz +1.0/-2.0 dB
S/N Ratio	More than 55 dB
K-factor	2.0% or less(K2T,KPB)
Y/C delay	Less than 30 ns

Audio performance

Frequency response	2Ch mode(48kHz/16bits) 4Ch mode(32kHz/12bits) : 20 Hz to 20 KHz +/-1.0dB 20 Hz to 14.5kHz +/-1.0dB
Dynamic range	More than 90 dB
Distortion(THD + N)	Less than 0.05%(at 48 Khz)
Time code	Input Output : BNC x 1, EBU time code, 0.5 Vp-p to 18 Vp-p, 3k, unbalanced BNC x 1, EBU time code, 2.2 Vp-p, 75, unbalanced
RS-422A	9-pin D-sub connector x 1, female
i.LINK	IEEE-1394, 6-pin x 1

Supplied Accessories

RCC-5G Remote Control Cable
(x1)
Operating Instructions x 1
AC Power code x 1

Accessories**Accessories****DSBK-1801**

SDI / AES / EBU input / output board for
DSR-1800P

**DSBK-1820**

HD Up-Converter Board for
DSR-1800AP/1600AP

Tripods**RMM-131**

RACK MOUNT KIT FOR UVW, DSR
AND MSW VTR