DSR 1800P

CARACTERISTIQUES

Silver Support

DSR-1800P

Editing Recorder

- Preread playback capability to perform audio mix/swap and over dubbing without any delay between video and audio signals
- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Channel condition monitoring function
- Jog dial on front panel
- Silver Support supplied as standard (see page 14)

Lecture en boucle possible via insertion in point et out point

Connectiques

YUV IN ET OUT sur connecteur BNC

Vidéo composite CVBS IN ET OUT sur connecteur BNC

Y/C IN ET OUT sur connecteur MiniDin 4 broches

REFERENCE IN OUT sur connecteur BNC

AUDIO ANALOGIQUE 4 CHANELS IN ET OUT sur connecteur XLR

TC IN ET OUT sur connecteur BNC

Contrôle S sur connecteur mini jack

Contrôle RS 422 sur connecteur DB9 protocole sony

SDI IN ET OUT i.LINK IEEE-1394, 6-pin x 1 EN OPTION NON EQUIPER

DSR-1800P
EDITING RECORDER

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%	
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	BNC x 1, EBU time code, 0.5 Vp-p to 18 Vp-p, 3k, unbalanced
	Output	BNC x 1, EBU time code, 2.2 Vp-p, 75, unbalanced
RS-422A	9-pin D-sub connector x 1, female	
OPTION	NON DISPO	
i.LINK	IEEE-1394, 6-pin x 1	

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 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-striped 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.

Is there any frame delay for Audio Bouncing?

No, DSR-1800P has a Pre-read head that allows it to pre-read edit for Audio. This exellence is from the DSR-2000P's legacy. In addition to Audio Pre-read editing, the DSR-2000P can do Video pre-read editing.

Is DSR-1800P has channel condition indication?

Yes, DSR-1800P as well as DSR-1600P/2000P is equipped with 3 colour indicators to be easy to recognise. Each colour indicator manages the machine to avoid any fatal situations.

What options are available on the DSR-1800P?

SDI, SDTI(QSDI), i.LINK interface can be used in addition to conventional analogue interface. However, SDTI-CP, so call MPEG interface is not available on DSR-1800P, but only for DSR-2000P as MPEG migration.

Can TBC controller be used?(UVR-60)

Yes, DSR-1800/1600P as well as DSR-2000P can use TBC controller via a remote connector. This function works for SDI Video output as well.

Is slow motion quality same as the DSR-80/60P?

No, DSR-1800/1600P improves slow-motion as well as Jog by far, compared to the DSR-80/60P to meet professional use.

Is it possible to convert time code data from SDI input to i.LINK output and vice versa?

Yes. If VITC is selected on the TC SELECT switch and EXT on the INT/EXT switch, the time code on the SDI input will go through to i.LINK output synchronised with video and audio. Also, when the i.LINK input is selected, either the TC or VITC signal on the i.LINK input can be converted to VITC on the SDI output synchronised with video and audio.