

SONY



DSR-2000AP

DVCAM Studio Editing Recorder - the flagship of Master Series

The King of DVCAM Master Series.

The Sony DSR-2000AP is a top-of-line DVCAM editing recorder equipped with a variety of professional features controlled via an ergonomically designed front panel.

Firstly, it uses all DV (25 Mb/s) format recorded tapes. Secondly, it delivers indispensable features for broadcast use: Preread, DMC (Dynamic Motion Control) and two-machine editing, plus all the original advantages of DVCAM technology.

Compared with the previous DSR-2000P, the DSR-2000AP features i.LINK interface as standard maintaining its price, even for greater value-for-money. In addition, the seamless integration into HD workflow can be provided via DSBK-2020 HD-SDI output board option.

Now, get your hands on the Sony DSR-2000AP and start creating the reliable, flexible editing environment you have always wanted.

Features

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

The DSR-2000AP has an excellent playback compatibility with all DV family formats (25 Mbps) including consumer DV-LP. This includes DVCPRO. Tapes of all these formats can be played back in the DSR-2000AP without any special mechanical adapter or menu selection.

Excellent Digital Slow Motion

The DSR-2000AP boasts excellent, noiseless, slow motion within the range of 1/2 to +1 times normal playback speed, in increments of 1%. This range is effective for all DV formats (25Mbps) - DV, DV-LP, DVCAM and DVCPRO.

Excellent Digital Jog Sound

The DSR-2000AP offers excellently smooth and clear performance of jog sound within the range of 1/2 to +1 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, DV-LP, 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-2000AP 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-2000AP can re-record it.

Timecode

The DSR-2000AP 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.

VTR-to-VTR Editing with Jog/Shuttle Dial

The DSR-2000AP incorporates a built-in Jog/Shuttle dial in its front panel, which allows direct two machine editing (without remote controller) to make 'cut' editing more convenient.

ClipLink

The DSR-2000AP supports the ClipLink function. Being integrated into a NLE system with Sony EditStations, the DSR-2000AP 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-2000AP 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-2000AP 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-2000AP 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-2000AP offers smooth digital slow motion picture by greatly reducing vertical jitter. This ability of the DSR-2000AP is particularly apparent in the range of less than 1times normal speed.

Benefits

Automatic DV format change

The DSR-2000AP 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-2000AP 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.

Highly durable playback performance for all DV (25 Mbps) recorded tapes

The DSR-2000AP plays all DV (25 Mbps) recorded tapes including DV in long play mode (DV-LP). No other DV VTR provides DV-LP playback compatibility. The DSR-2000AP does by virtue of its ability to read data from tapes without having to maintain tracking. This function is also excellent for rescuing badly recorded DV, DVCAM and DVCPRO tapes. In this sense, the DSR-2000AP is the most reliable VTR for all DV recorded tapes.

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-2000AP 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-2000AP 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-2000AP has achieved the perfect synchronisation of video and audio.

No Generator required to record a pre-stripped tape

The DSR-2000AP 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-2000AP 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-2000AP 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	110 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	18 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 Mhz +1.0/-1.5 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

Operating Instructions x 1
AC Power code x 1

Accessories

Accessories

DSRM-10

Remote control unit



DSBK-2020

HD - Up-Converter Board for DSR-2000AP

Tripods



RMM-131

RACK MOUNT KIT FOR UVW,DSR AND MSW VTR