



What is "DVCAM"

- Sony's professional version of DV introduced in 1996.
- One of the best selling professional video acquisition formats ever produced.
- Superior to the analog BetaCam SP format in virtually every category
- DVCAM is an intra-frame coded 4:1:1, 8 bit digital format
- A full range of products that includes camcorders, VTRs, Disk Recorders and Tape Products.
- DVCAM offers CD quality uncompressed audio at 48KHz / 16 bit (stereo) and 32KHz / 12 bit (4 track) sample rates

Products Covered in this Guide

Cameras:

DSR-PD170.....	3
DSR-250.....	4
DSR-400K (or L).....	5
DSR-450WSL.....	6

Cameras:

DSR-11.....	7
DSR-25.....	8
DSR-45A.....	9
DSR-50.....	10
DSR-1500A.....	11
DSR-1600A.....	12
DSR-1800A.....	13
DSR-2000A.....	14
DSR-DR1000A.....	15

Sony: Creator of the DVCAM format

When Sony introduced the DVCAM format in 1996, it quickly became the largest selling video format in the company's history. Based on the highly popular worldwide standard consumer DV system, but with wider tracks and higher tape speed for better performance in professional applications, it revolutionized the industry by offering digital quality at very affordable prices. Starin has assembled this guide to help you understand the full range of products and capabilities included in DVCAM. As your Sony Supply Partner, we are committed to being your best source for information on all Sony products, and to providing you every tool you need to be successful

Why Buy the DVCAM format?

DVCAM has become a standard for high-performance, low cost video acquisition world-wide. Using the same transport stream format and data rate as consumer DV and the easy connectivity of iLink, (or IEEE1394), this equipment is compatible with virtually every non-linear editing system in use today. Sony's professional enhancements to DV include a more robust track structure, better audio capability, SMPTE Timecode and more. DVCAM also uses Metal Evaporated Tape which offers superior dropout performance and 30+ year archival capability

Why Buy a Sony DVCAM Camcorder?

Take a look at the three main advantages that Sony offers over other brands.

Wide range of products — There is something in the DVCAM product line specifically designed for everyone from event videographers to news cameramen to independent film shooters.

Sony Camera Technology — Sony's long history in imaging technology, image processing, video encoding and tape transport design make DVCAM one of the most respected, and used, video formats in the world.

Long Recording Times — Sony's Metal Evaporated Tape technology allows for thinner, more stable tape and maximum recording times of 184 minutes on a Standard Size DVCAM cassette.

Starin has setup a dealer (password protected) online resource for you to access up-to-date product information and pricing: www.SonyPro.us. Signon today!

Sony DVCAM At-A-Glance

Cameras (Acquisition Components)



DSR-PD170
Compact Camcorder
• 1/3" 3CCD
• 12x lens
• Mini cassette size only
List \$3,940
MAP \$3,546



DSR-250
Full size Camcorder
• 1/3" 3CCD
• 12x lens
• Dual cassette size
List \$4,619.00



DSR400K
Full Size Camcorder
• 2/3" 3CCD
• 17x lens
• Interchangeable Lenses
List \$12,690.00

DSR400L
(Version without lense)
List \$10,800.00



DSR-45WSL
High performance Full Size Camcorder
• Native 16:9 2/3" CCD x 3
• 16:9 or 4:3 acquisition
• 24PsF and 30PsF progressive modes
List \$18,000

Recorders



DSR-11 - Compact VTR
Dual size cassette, iLink, DVCAM/DV, List \$2,052



DSR-1600A - Master Series Editing Player. Full-size, Jog Dial, Digital Slow Speed -0.5 to +0.5, List \$6,770



DSR-25 - Compact VTR
Timecode display, Built-in 2" monitor, DVCAM/DV, List \$3,300



DSR-1800A - Master Series Editing Recorder, Pre-read function, Jog Dial, Digital Slow Speed. List \$9,672



DSR-45 - Compact VTR
Analog I/O, 4 Ch audio I/O, Built-in 2.5" monitor, List \$4,740



DSR-2000A - Master Series Editing Recorder
• -1 to +1 Digital Slow Speed
• Pre-read
• DV(LP) playback
• 25 Mbps Recording
• Double-Scan Playback
List \$15,340



DSR-50 - Portable Field Recorder. Battery Operation, Built-in 2.5" Monitor, Analog I/O
List \$6,050



DSR-DR1000A - Hard Disk Recorder. 12 hr. capacity, Simultaneous Rec / Play, Loop Rec. List \$6,342



DSR-1500A - Master Series Editing Recorder. Half-rack, DVCPRO25 playback, 3 size cassette.
List \$ 6,245

Sony DSR-PD170 Up Close



Key Features of the DSR-PD170

Compact and Lightweight - Weighs less than 3.5 lbs (without battery)

1/3" 3CCD Advanced HAD Imager – Provides high sensitivity, excellent signal to noise ratio and very low vertical smear. Low light shooting at 1lx is possible (f1.6 @ 18dB gain)

High MTF 12x Zoom Lens - Provides Auto focus and Optical Super SteadyShot. Lens hood with built-in lens cap and VCL-HG0758 Wide Conversion lens are supplied.

Dual Aspect Ratio Capture - Video can be captured in 16:9 or 4:3 aspect ratio

Manual Control Capability - Complete operator control of iris, shutter speed, gain, AE shift, white balance, audio record level and more can be selected.

Ergonomic Design - A large size handle with built-in record button and zoom rocker provide flexible operation.

Professional Audio Interface – Dual XLR audio inputs are provided with independent level control and switchable phantom power.

Digital Still Camera Modes - Progressive scan still images can be captured to tape or optional Memory Stick

Pool-Feed Capability – Will accept external Composite or S-Video inputs as record source.

SUPPLIED ACCESSORIES

AC-L15 AC Adapter/Charger
 ECM-NV1 Mono Shotgun Mic
 NP-F570 InfoLithium Battery
 RMT-811 IR Remote Controller
 VCL-HG0758 Wide Conversion Lens
 LSF-S58 Lens Hood and Cap for Conversion lens.
 Lens Hood with built-in cap
 Carrying Belt
 iLink Cable Strap
 Stereo A/V Cable
 Operating Instructions

OPTIONS

(NOT INCLUDED)

AC-V700A AC Adapter/Charger
 ECM-670 Short Shotgun Microphone
 LCPD150BP Soft Carrying Case
 LCPD170TH Hard Shell Camera Case
 MSA32A/64A/128A Memory Stick Digital Media
 NPF570/750/770/970 InfoLithium Batteries
 UWP-C1/C2 Wireless Mic Systems
 VMC-IL4408A/4415/4435 iLink Cables
 VMC-IL4615/4635 iLink Cables (4pin - 6pin)
 CCFD-3L iLink Cable (4pin - 6pin)

Sony DSR-250 Up Close



Key Features of the DSR-250

Dual Mode Imager - 1/3" 3CCD Imager will operate in either interlaced (video) or progressive modes for still pictures.

Compact, Lightweight, Shoulder Mount Design – Well balanced package weighs less than 10lbs. (without battery)

Integral 12x Zoom Lens - Lens system includes Optical Super SteadyShot image stabilization and auto focus.

Long Recording Times - DVCAM record times of up to 184 minutes are possible using Standard size DVCAM tapes.

Manual Control Capability - Complete operator control of iris, shutter speed, gain, AE shift, white balance, audio record level and more can be selected.

Pool-Feed Capability – Will accept external Composite or S-Video inputs as record source.

SUPPLIED ACCESSORIES

ECM-NV1 Mono Shotgun Microphone
 DXF-801 1/5" Viewfinder
 RMT-811 Remote Commander
 Lens Cap
 Operating Instructions

OPTIONS (NOT INCLUDED)

AC-DN10 AC Supply/ Charger
 AC-DN2B AC Adapter
 BP-GL65/95 Li-ion Batteries
 BP-M50/100 Li-ion Batteries
 BPL60S Li-ion Battery
 BC-M150 Li-ion Battery Charger
 CA-C12 Microphone Holder
 ECM-670/672/678 Shotgun Microphones
 LC-400BP Soft Carrying Case
 LC-424CP Hard Shipping Case
 LC-424TH Hard Shipping Case
 UWP-C1/C2/C3 Wireless Mic Systems
 VCL-HG0758 Wide Conversion Lens
 VCL-HG1758 Telephoto Lens Conversion Lens
 VCT-U14 Tripod Adapter
 VMC-IL4415/4635 iLink Cables (4pin - 6pin)
 CCF-3L iLink Cable (6pin - 6pin)
 CCFD-3L iLink Cable (6pin - 4pin)

Sony DSR-400K Up Close

Picture includes optional items



Key Features of the DSR-400K

2/3" 3CCD PowerHAD Imager – New, high quality CCD technology delivers very low smear, high sensitivity, high S/N ratio and high resolution. 4:3 Aspect ratio.

Compact, lightweight Design – Weighs only 14lbs. 5oz. ready-to-shoot. Adjustable shoulder mount provides perfect balance.

Faithful Image Reproduction – 12bit A/D and Advanced DSP provide a wide range of image controls including TruEye, Dyna-Latitude, Skin Detail, Multi-matrix, Black Stretch/Compress and more.

Interchangeable Lenses – Compatible with a wide range of 2/3" B2-mount lenses from Canon and Fujinon. DSR-400K model includes a 17x zoom lens.

Scene File Storage - Using low-cost Memory Stick media, operator presets can be stored and moved from camera to camera.

DSR-400L - Version without a lens

Both models use Fujinon "A" or Canon "YJ" series lenses--2/3" CCD type lenses - Fujinon "A" or Canon "YJ" series lenses--2/3" CCD type lenses

SUPPLIED ACCESSORIES

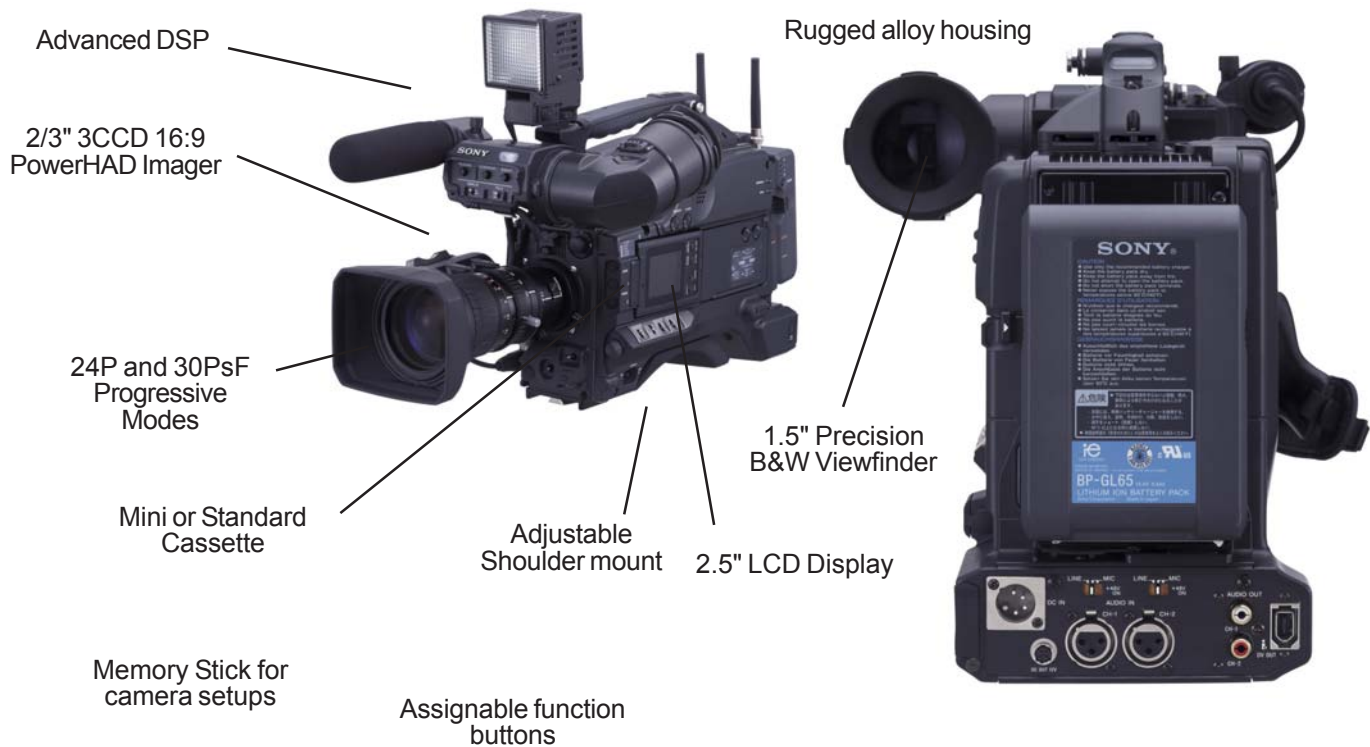
DXF-801 1.5" B&W Viewfinder
Shotgun Microphone
VCTU14 Tripod Adapter
Shoulder Strap
VCL-917BY 17x Zoom Lens (DSR-400K model)
Operation Manual

OPTIONS (NOT INCLUDED)

AC-DN10 AC Adapter
AC-DN2B AC Adapter
BC-M150 Battery Charger
BP-GL65/95 Li-ion Batteries
BPL60S Hard Carbon Li-ion Batteries
CA-C12 Microphone Holder
DXF51 5" Studio Viewfinder
ECM-670/672/674/678 Shotgun Microphones
UWP-C1/C2/C3 Wireless Mic Systems
LC-400BP Soft Carrying Case
LC-424TH Hard Shipping Case
Canon "YJ" series Lens
Fujinon "A" Series Lens

Sony DSR-450WSL Up Close

Picture includes optional items, lense NOT included



Key Features of the DSR-450WSL

- 2/3" 3CCD PowerHAD Imager** – New, high quality CCD technology delivers very low smear, high sensitivity, high S/N ratio and high resolution. 16:9 / 4:3 switchable Aspect ratio.
- Compact, lightweight Design** – Weighs only 14lbs. 5oz. ready-to-shoot. Adjustable shoulder mount provides perfect balance.
- Faithful Image Reproduction** – 12bit A/D and Advanced DSP provide a wide range of image controls including TruEye, Dyna-Latitude, Skin Detail, Multi-matrix, Black Stretch/Compress and more.
- Interchangeable Lenses** – Compatible with a wide range of 2/3" B2-mount lenses from Canon and Fujinon. No Lense Included.
- Scene File Storage** - Using low-cost Memory Stick media, operator presets can be stored and moved from camera to camera.
- Film-like shooting modes** - True 24P and 30PsF acquisition is possible with selectable gamma and slow-shutter capabilities.
- Versatile I/O Options**- Optional interface boards provide SDI output and analog composite input (pool feed).

SUPPLIED ACCESSORIES
DXF-801 1.5" B&W Viewfinder Shotgun Microphone VCTU14 Tripod Adapter Shoulder Strap VCL-917BY 17x Zoom Lens (DSR-400K model) Operation Manual
OPTIONS (NOT INCLUDED)
AC-DN10 AC Adapter AC-DN2B AC Adapter BC-M150 Battery Charger BP-GL65/95 Li-ion Batteries BPL60S Hard Carbon Li-ion Batteries CA-C12 Microphone Holder DXF51 5" Studio Viewfinder ECM-670/672/674/678 Shotgun Microphones UWP-C1/C2/C3 Wireless Mic Systems LC-400BP Soft Carrying Case LC-424TH Hard Shipping Case Canon "YJ" series Lens Fujinon "A" Series Lens

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Sony DSR-11 Up Close



Key Features of the DSR-11

Recording and Playback of DV or DVCAM formats – Provides long recording times of up to 276 minutes in DV mode.

NTSC or PAL operation – Either standard can be selected for operation

iLink (DV) Interface - For simultaneous transfer of video, audio, Timecode and control signals to other DV or DVCAM equipment.

Versatile I/O – S-Video and Composite Video and Analog Audio plus iLink DV interfaces standard. LANC and Control-S control capability

SUPPLIED ACCESSORIES

RMT-DS11 IR Remote Controller
 AC Adapter / Power Cord
 Cleaning Cassette
 Operating Manual
 Vertical Stand

OPTIONS (NOT INCLUDED)

DSRM-10 Wired Remote Control
 VMC-IL4408/4415/4435 iLink cables (4pin-4pin)
 VMC-IL4615/4635 iLink cables (4pin-6pin)
 CCFD-3L iLink cable (4pin - 6pin)

Sony DSR-25 Up Close



Key Features of the DSR-25

Front Panel Display – 2" LCD monitor and Timecode display built-in
Recording and Playback of DV or DVCAM formats – Provides long recording times of up to 276 minutes in DV mode, 184 minutes DVCAM

NTSC or PAL operation – Either standard can be selected for operation

iLink (DV) Interface - For simultaneous transfer of video, audio, Timecode and control signals to other DV or DVCAM equipment.

Versatile I/O – S-Video and Composite Video (BNC) and Analog Audio plus iLink DV interfaces standard. LANC and Control-S control capability.

Note, as technology changes, a possible alternative is the: HVR-M25U

SUPPLIED ACCESSORIES

RMT-DS5 IR Remote Controller
 AC Power Cord
 Cleaning Cassette
 Operating Manual

OPTIONS (NOT INCLUDED)

DSRM-10 Wired Remote Control
 VMC-IL4408/4415/4435 iLink cables
 VMC-IL4615/4635 iLink cables (4pin-6pin)
 CCFD-3L iLink cable (4pin - 6pin)
 RMMDSR20D - Hardware to mount (2) DSR units side by side, 2U
 RMMDSR20S - Hardware to mount (1) DSR unit + blank face plate, 2U High

Sony DSR-45A Up Close



Key Features of the DSR-45A

Full Range of Analog I/O – Component, Composite and Timecode on standard BNC style connectors, plus S-Video and 4 Channel Audio (XLR out) for easy integration.

iLink (DV) Interface – IEEE1394 4pin interface provides digital I/O and control.

Comprehensive Control Options – RS-422, RS-232C, LANC and Control-S interfaces.

Front-panel monitoring - A 2.5" LCD monitor and Timecode display are built-in.

SUPPLIED ACCESSORIES

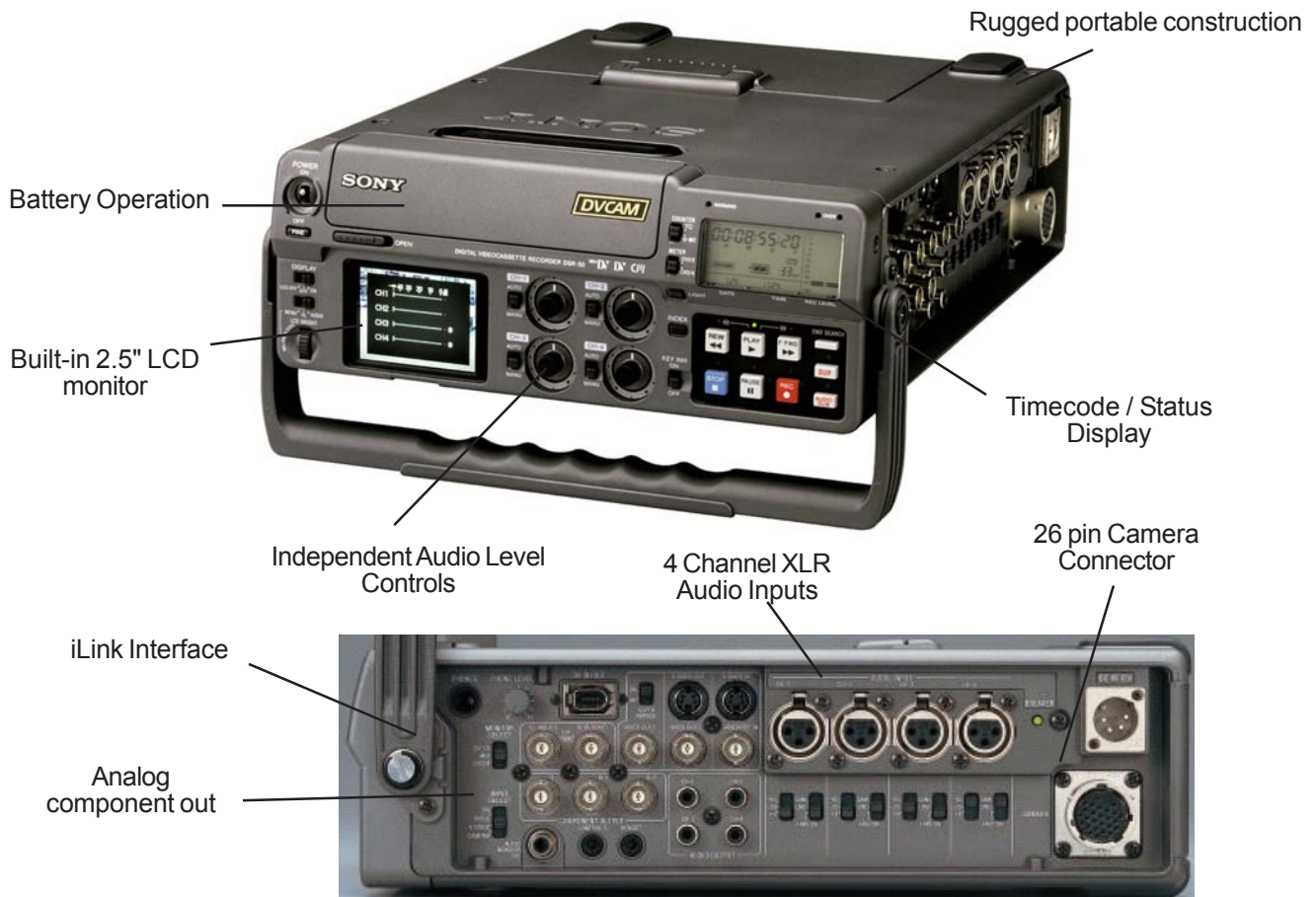
- RMT-DS5 IR Remote Controller
- AC Power Cord
- Cleaning Cassette
- Operating Manual
- RS-232 Interface Manual

OPTIONS (NOT INCLUDED)

- DSRM-10 Wired Remote Control
- VMC-IL4408/4415/4435 iLink cables
- VMC-IL4615/4635 iLink cables (4pin-6pin)
- CCFD-3L iLink cable (4pin - 6pin)
- RMMDSR20D - Hardware to mount (2) DSR units side by side, 2U
- RMMDSR20S - Hardware to mount (1) DSR unit + blank face plate, 2U High

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Sony DSR-50 Up Close



Key Features of the DSR-50

Rugged, Lightweight Design - The DSR-50 weighs only 8lbs (without battery) and uses a rugged, field proven case design.

Front Panel Monitoring - A panel mounted 2.5" LCD monitor and separate status display provides comprehensive operator information.

Comprehensive Analog Video I/O - Composite, S-Video and Component (output only), plus Genlock Input, and monitor output are standard.

4 Ch. Audio Connections - Audio Inputs are XLR and operate at either Mic, with switched 48v phantom power or Line Level.

Battery or External Power - Optional standard v-mount BP-GL or BPL series batteries mount inside the unit or external power can be supplied through 4pin XLR.

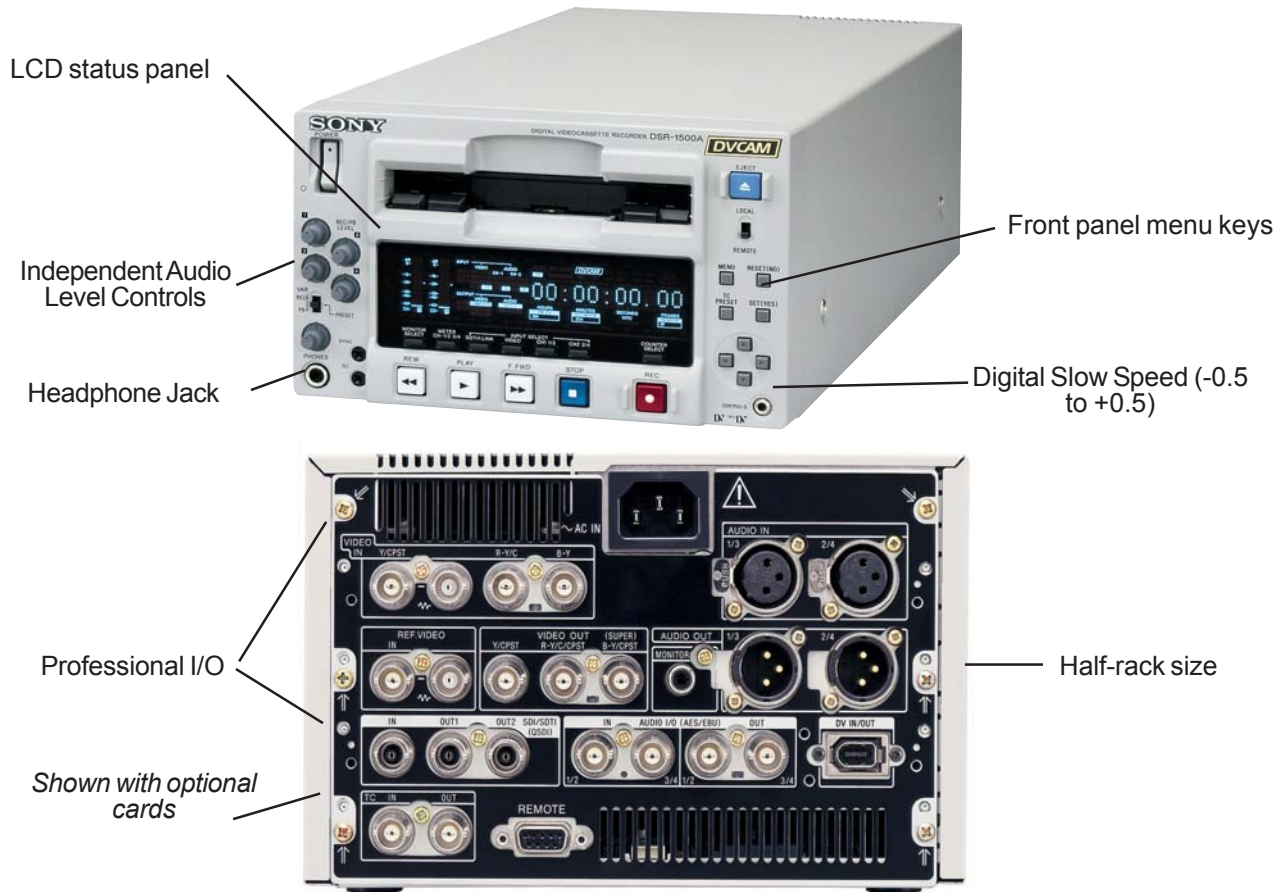
SUPPLIED ACCESSORIES

LCD protection cover
Cleaning Cassette
Operation Manual

OPTIONS (NOT INCLUDED)

BP-GL65 / 95 Lithium-ion Battery Packs
BC-M150 Battery Charger / Power Supply
DSRM-10 Wired Remote Controller
VMC-IL4615/4635 iLink cables (4pin-6pin)
CCF-3L iLink cable (6pin-6pin)

Sony DSR-1500A Up Close



Key Features of the DSR-1500A

Master-Series Features - Playback of DV (SP), DVCAM and DVCPRO25 tapes without adapters or menu settings. Supports 3 sizes of cassettes. Jog audio, built-in Color Bar Generator, Clip-Link and more.

Professional I/O - Available option boards provide Component, Composite, S-Video, SDI and SDTI video and analog and AES/EBU audio interfaces. iLink interface is standard. RS-422A and Control-S interfaces are provided.

Compact, Lightweight Design - Half-rack width unit weighs only 13lbs.

Fast Shuttle and Digital Slow Modes - Tapes can be searched at 60x normal speed, while Digital Slow Mode provides noiseless playback at +0.5x to -0.5x normal speed.

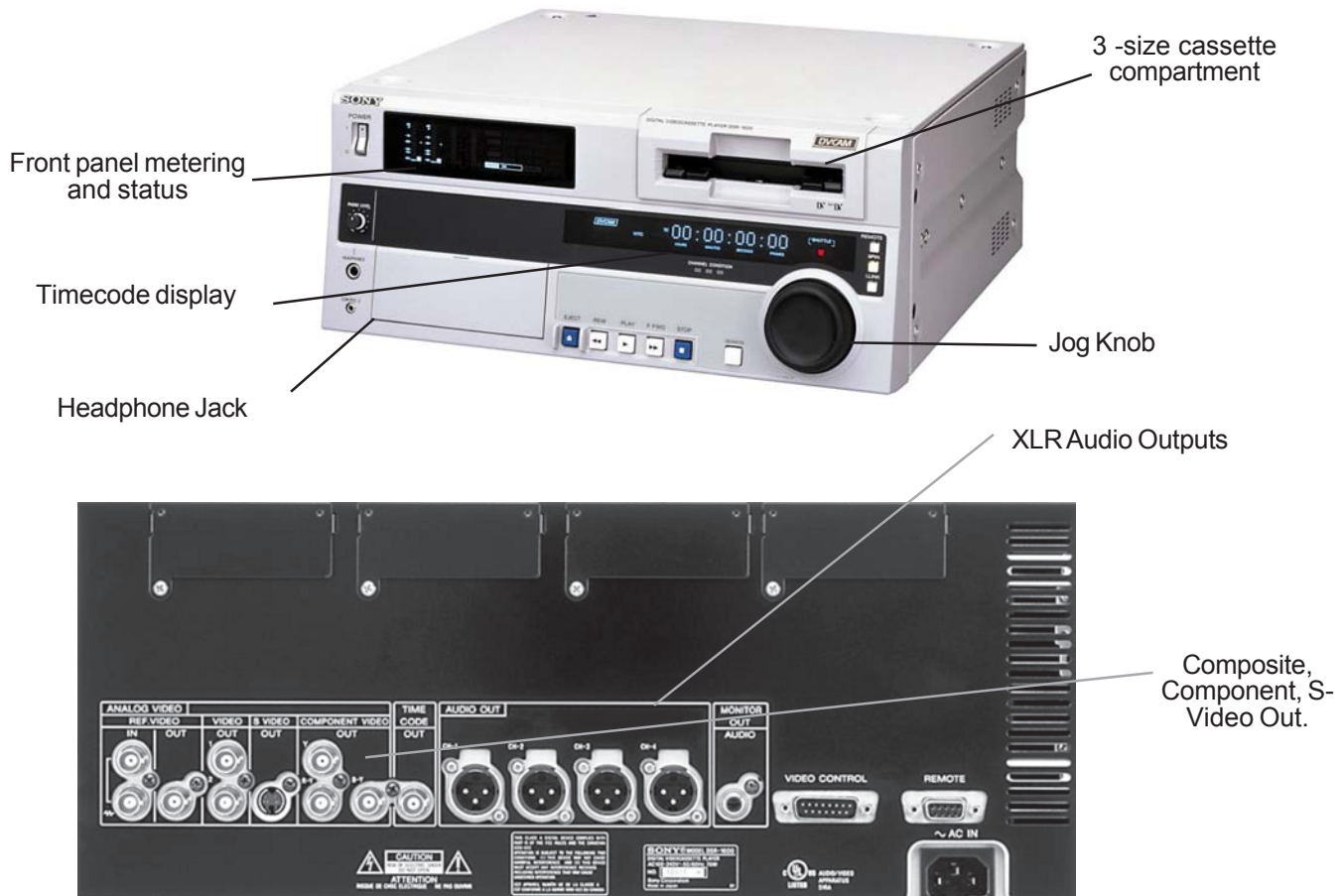
SUPPLIED ACCESSORIES

AC Power Cord
Operating Manual (CD)

OPTIONS (NOT INCLUDED)

DSRM-10 Wired Remote Control
RMM-DSR15 Rack Mount Kit
DSBK-1501 Digital I/O Board
DSBK-1505 Analog Input Board
VMC-IL4615/4635 iLink cables (4pin-6pin)
CCF-3L iLink cable (6pin-6pin)

Sony DSR-1600A Up Close



Key Features of the DSR-1600A

Master-Series Features - Playback of DV (SP), DVCAM and DVCPRO25 tapes without adapters or menu settings. Supports 3 sizes of cassettes. Jog audio, Video Process control, built-in Color Bar Generator, Clip-Link and more.

Front Panel Status Display - Display of Audio levels, machine status and Channel Condition for operator convenience.

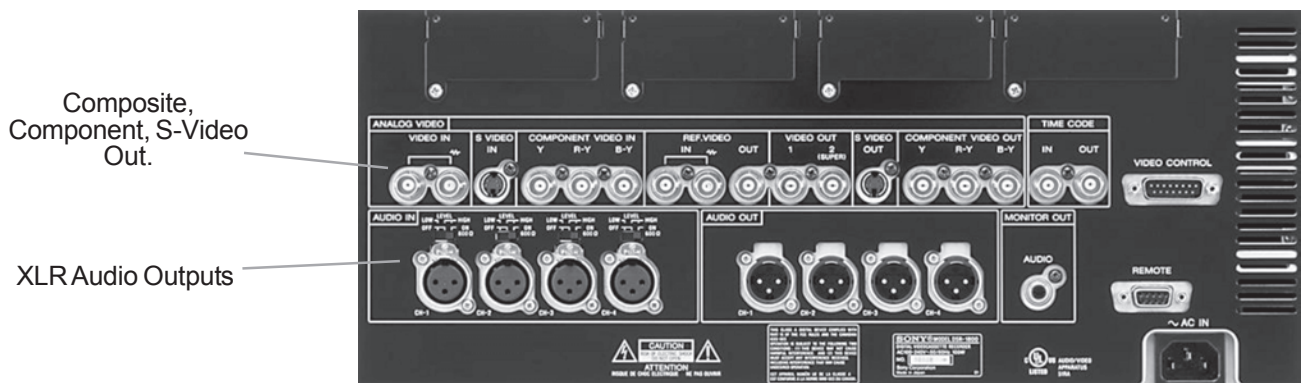
High Speed Shuttle and Digital Slow Mode - Front panel mounted Jog/Shuttle knob provides 60x shuttle control and +0.5x to -0.5x variable speed with Dynamic Motion Control for noiseless playback, and jog sound.

Optional Digital Outputs – While analog output is standard, an option board can be added to provide SDI and AES/EBU capabilities.

SUPPLIED ACCESSORIES
AC Power Cord Operating Manual (CD)
OPTIONS (NOT INCLUDED)
DSRM-10 Wired Remote Control RMM-130US Rack Mount Kit DSBK-1601 SDI/AES-EBU Output Board VMC-IL4615/4635 iLink cables (4pin-6pin) CCF-3L iLink cable (6pin-6pin)

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Sony DSR-1800A Up Close



Key Features of the DSR-1800A

Master-Series Features - Playback of DV (SP), DVCAM and DVCPRO25 tapes without adapters or menu settings. Supports 3 sizes of cassettes. Jog audio, Video Process control, built-in Color Bar Generator, Clip-Link and more.

Pre-read Capability – Allows audio mix/swap and over-dubbing without any delay between video and audio signals.

Front Panel Status Display - Display of Audio levels, machine status and Channel Condition for operator convenience.

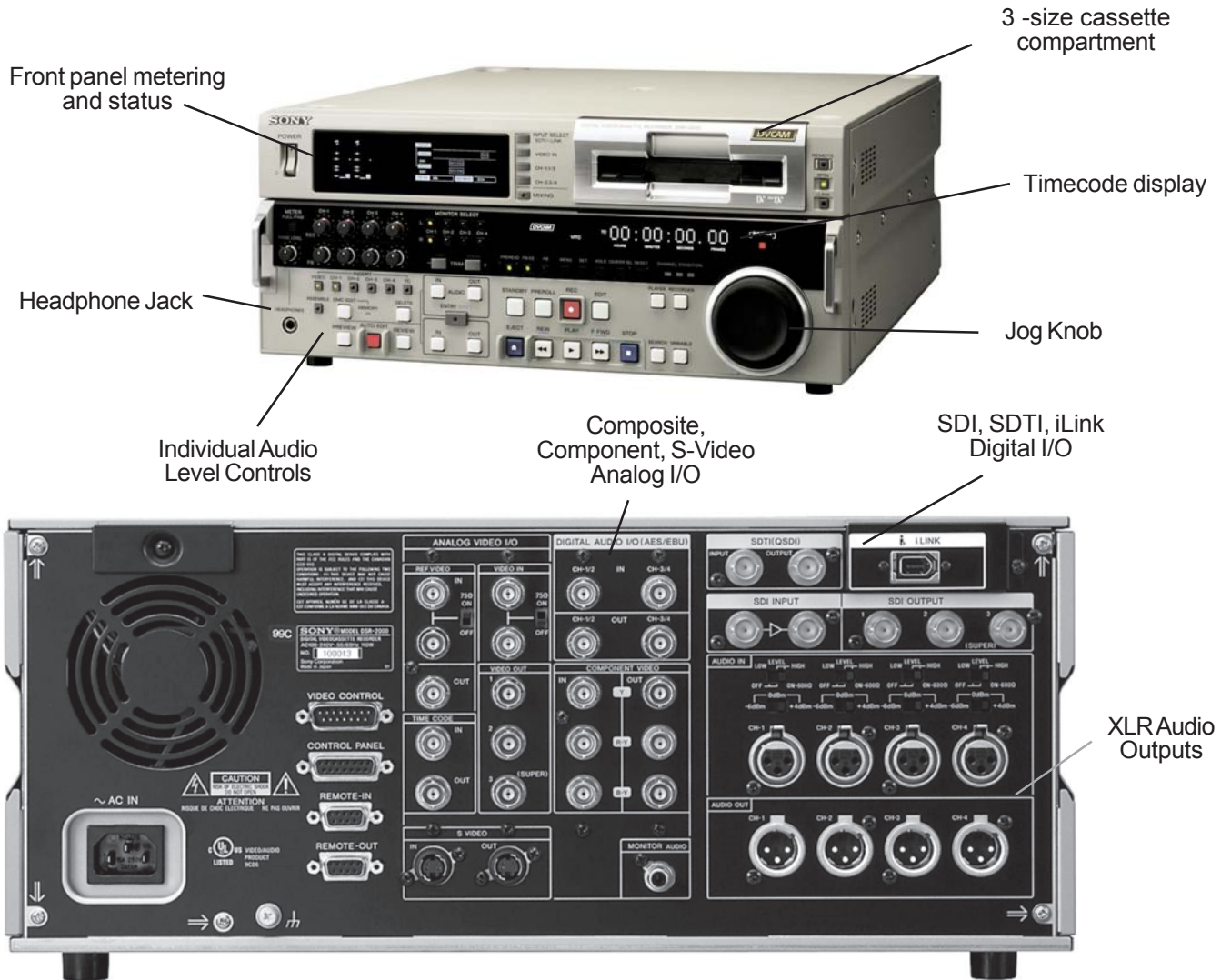
High Speed Shuttle and Digital Slow Mode - Front panel mounted Jog/Shuttle knob provides 60x shuttle control and +0.5x to -0.5x variable speed with Dynamic Motion Control for noiseless playback, and jog sound.

Optional Digital I/O - SDI / AES-EBU I/O provided by option board. iLink is standard.

SUPPLIED ACCESSORIES
AC Power Cord Operating Manual (CD)
OPTIONS (NOT INCLUDED)
DSRM-10 Wired Remote Control RMM-130US Rack Mount Kit DSBK-1801 SDI/AES-EBU Output Board VMC-IL4615/4635 iLink cables (4pin-6pin) CCF-3L iLink cable (6pin-6pin)

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Sony DSR-2000A Up Close



Key Features of the DSR-2000A

- Master-Series Features** - Playback of DV (SP), DVCAM and DVCPRO25 tapes without adapters or menu settings. Supports 3 sizes of cassettes. Jog audio, Video Process control, built-in Color Bar Generator, Clip-Link and more.
- Pre-read Capability** – Allows audio mix/swap and over-dubbing without any delay between video and audio signals, plus A/B roll editing with 2 VTRs
- Dynamic Motion Control** – Provides noiseless playback at all speeds from still to normal speed.
- Direct Drive Transport** - Extremely tight reel and drum servos provide fast, accurate operation
- Front Panel Status Display** - Display of Audio levels, machine status and Channel Condition for operator convenience.
- High Speed Shuttle and Digital Slow Mode** - Front panel mounted Jog/Shuttle knob provides 60x shuttle control and 0 to 1.0x slow-mo.
- Full Range of Professional I/O Standard** – All conventional analog and digital I/O formats are included as standard equipment.

SUPPLIED ACCESSORIES
AC Power Cord Operating Manual (CD)
OPTIONS (NOT INCLUDED)
RMM-130US Rack Mount Kit

CALL STARIN AT 219-929-4127 IF YOU HAVE A TECHNICAL QUESTION ON DVCAM PRODUCTS

Sony DSR-DR1000A Up Close



Key Features of the DSR-DR1000A

12 hr. Storage Capacity – New 80GB HDD provides 12 hour storage time.

Full Range of Professional I/O – Composite, Component, S-Video and SDI are all provided as standard.

Wide Playback Speed Range - Noiseless playback is possible over +/- 2x normal speed. Compatible with external slo-mo controllers.

Clip Segment Playback Function - Marked video segments can be instantly recalled for playback.

Independent Record and Playback Ports - Recording and Playback are completely independent of each other while sharing the same media.

Unique Operational Features - Endless loop recording, program delay and interval recording are supported. Pre-record buffer means you never miss a shot.

Network Capabilities - 100baseT support allows files stored on the HDD to be transferred to other devices through high speed FTP transfers.

SUPPLIED ACCESSORIES

AC Power Cord
RM-LG2 Remote Control Unit
Operation Manual (CD-R)

OPTIONS (NOT INCLUDED)

RMM-DSR1K Rack Mount Kit