



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 media.
- 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:

Callelas.
DSR-PD1703
DSR-2504
DSR-400K (or L)5
DSR-450WSL6
DXC-D507
Decks:
DSR-45A8
DSR-509
DSR-1500A10
DSR-1600A11
DSR-1800A12
DSR-2000A13
DSR-DR1000A14

DVCAM GUIDE ISSUE: 2006-2

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 Componets)



1/3" 3CCD 12x lens

DSR-PD170

• IZX IEIIS • Mini oncot

• Mini cassette size only List \$3,940 MAP \$3,546

DSR-250

Full size Camcorder

Compact Camcorder

- 1/3" 3CCD
- 12x lens
- Dual cassette size List \$4,619.00





High performance Full Size Camcorder

- Native 16:9 2/3" 3CCD
- 16:9 or 4:3 acquisition
- 24PsF and 30PsF progressive modes List: \$15,000.00 MAP: \$13,900.00

DXC-D50

- 3-2/3" PowerHAD CCDs
- Interchangeable Lens
- Multicore or Triax Camera Adapters

DXCD50H List: \$9,383, MAP: \$8,444 DXCD50L List: \$10,752, MAP: \$9,667 DXCD50WSH List: \$11,841, MAP: \$10,657



DSR400K

Full Size Camcorder

- 2/3" 3CCD
- 17x lens
- Interchangeable Lenses List \$12,690.00

DSR400L

(Version without lens) List \$10,800.00

Recorders



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



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



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



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



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



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

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

Slow Speed. List \$9,672





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

(NOT INCLUDED) AC-V700A AC Adapter/Charger ECM-673 Short Shotgun Microphone LCPD150BP Soft Carrying Case LCPD170TH Hard Shell Camera Case MSA32A/64A/128A Memory **Stick Digital Media** NPF570/770/970 InfoLithium **Batteries** UWP-C1/C2/C3 Wireless Mic Systems VMC-IL4408A/4415/4435 iLink Cables VMC-IL4615/4635 iLink Cables (4pin - 6pin) CCFD-3L iLink Cable (4pin -6pin)



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.

Application Note: Great for wedding videographers and court reporters

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-673/674/678 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)



Dual XLR (Phantom) mic/line switchable

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-toshoot. 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" B2mount 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

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-673/674/678 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



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. readyto-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)

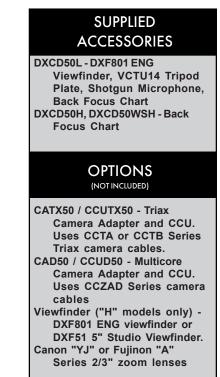
AC-DN10 AC Adapter AC-DN2B AC Adapter BC-M150 Battery Charger BP-GL65/95 Li-ion Batteries BPL60S Hard Carbon Li-ion Batteries CA-C12 Microphone Holder DXF51 5" Studio Viewfinder ECM-673/674/678 Shotgun Microphones UWP-C1/C2/C3 Wireless Mic Systems LC-400BP Soft Carrying Case LC-424TH Hard Shipping Case Canon "YJ" series Lens Fujinon "A" Series Lens

DVCAM



Key Features of DXCD50 Series Cameras

- 2/3" High performance PowerHAD CCD imagers 12bit A/D and Advanced Digital Signal Processing to provide Broadcast level performance and features.
- **Shoulder Mount or Studio Operation** Both ENG and Studio viewfinders are available.
- Multicore or Triax Operation CCUD50 / CAD50 for Multicore, CCUTX50 / CATX50 for Triax. Both provide CCU controls and standard SDI, Component and Composite outputs for studio systems.
- **4:3 or 16:9 / 4:3 Switchable Operation** DXCD50L and DXCD50H (camera head only) use 4:3 Imagers. DXCD50WSH (camera head only) uses 16:9 Imagers and is switchable to 4:3.



Sony DSR-45A Up Close



Genlock Input -

4 Ch audio in (RCA) and Out (XLR) 0

AČ

Key Features of the DSR-45A

AUDIO IN

- **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

iLink Interface

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

OPTIONS

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



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.

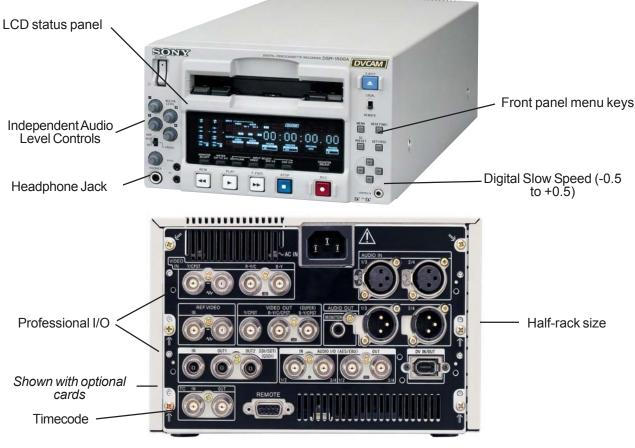


LCD protection cover Cleaning Cassette Operation Manual

OPTIONS (NOT INCLUDED)

BP-GL65 / 95 Lithium-ion Battery Packs BC-M150 Battery Charger / Power Supply 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.

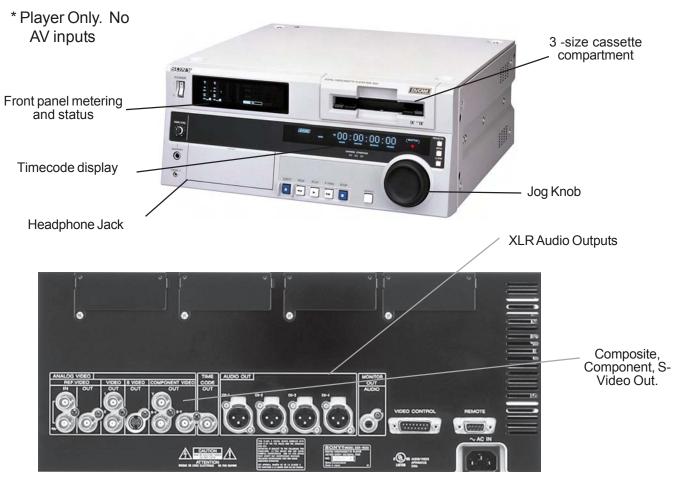
- **Professional I/O -** Available option boards provide Component, Composite, S-Video, SDI and SDTI video and analog and AES/ EBU audio interfaces. iLink interface is standard. RS-422A and Control-S interfaces are provided.
- **Compact, Lightweight Design -** Half-rack width unit weighs only 13lbs.
- **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.

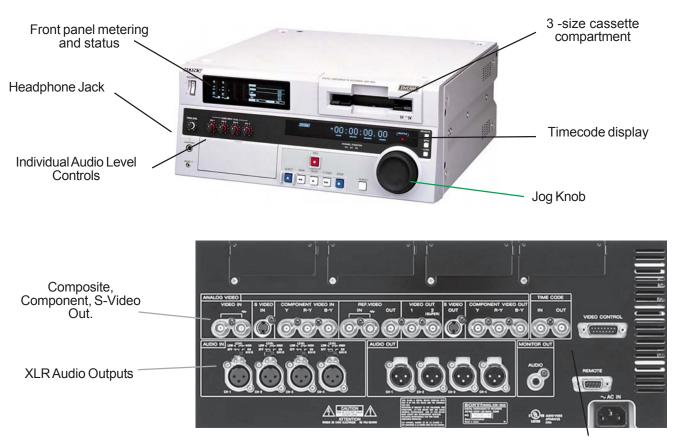
- **Front Panel Status Display -** Display of Audio levels, machine status and Channel Condition for operator convenience.
- **High Speed Shuttle and Digital Slow Mode** Front panel mounted Jog/Shuttle knob provides 60x shuttle control and +0.5x to -0.5x variable speed with Dynamic Motion Control for 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)

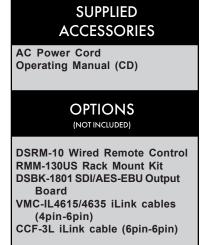


Sony DSR-1800A Up Close

Key Features of the DSR-1800A

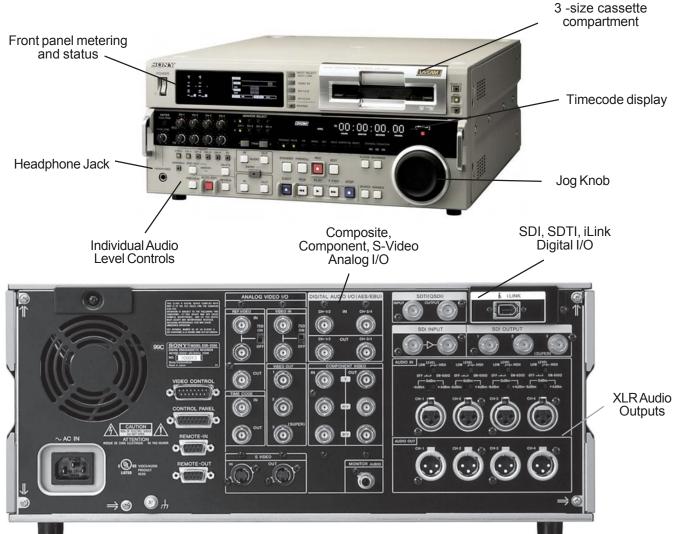
Timecode

- 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.



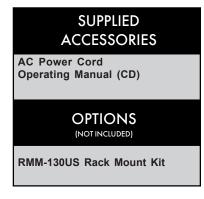
DVCAM

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.



Sony DSR-DR1000A Up Close



- 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.

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

> OPTIONS (NOT INCLUDED)

RMM-DSR1K Rack Mount Kit

Starin Reseller Resources

All of your Sony pricing is online at www.sonypro.us. Starin has taken the steps to make sure the latest pricing is available to our dealers as well as making the site user friendly. We also have the accessories listed below key products for quick reference. Below is the set-up process for using the Sony Pricing Website.

Website Registration

1. You will first need to send in your Sony Dealer paperwork that Starin will provide you. Please contact us and we will email or fax one over to you.

2. Once you log-on to www.sonypro.us, you will be greeted by our Sony Product Manager, Rich Hoffman. On the left side of the webpage, you will see the tab for Online Registration. Please fill this page out and hit "submit".

3. The next morning, you will have access to the site by going to the Log In button located at the top of the page.

STARIN	Please Login	SONY. Reseller Portal
Home		Reseirer Fortar
> About Us	Learn more about Starin as yo	our supply partner 800-845-
> Products		
Online Application	login to our website	
> Representatives	access pricing, availablity and more	
> Login		
Sony Pro Website	Usemame:	
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) Newsletter	Login	
you would like to be cluded in our product news tter, please send an email a news@starin.biz	Forgot password? We can send it.	Send
News & Events		
12-01-2005) theck out the new HVR-A1U, a 080i HDV camcorder with C- 105 Imager that provides real 080i HD acquisition <u>disk here</u>		

Website Navigation

Product Browser

Audio Conferencing Perpherials
Audio/Video Software

🗎 ACID Loop Libraries

actual folder icon.

Accessory

🚞 Audio

🚞 Video

The following product browser lets you navigate th Product details will open in a new window. Note: P

Now that you have access to the site, you have all of your dealer costs and stock status at your finger tips. There are a few ways to navigate through the site. Below are some tips to assist you.



Search By Model - This field appear at the top of the page once you are logged in. This is the quickest way to locate a price. Just fill in the model number or the first few letters of the model. This site is not case sensitive and you do not need at add any dashes. For instance, if you typed in "vplpx" in the field, it would pull up all products that begin with those letters.

Search Products - This tab is found on the top left of the website. This tab will let you go page by page through the Sony models in alphabetical order. You will notice on the bottom of the page that it allows to skip up to ten pages of products at a time.

Browse Products - By selecting this tab, you can view products by category.

Pricing Reports - At the top of the page, you can select Pricing Reports. This will allow you download all or selected categories into an Excel Spreadsheet.

Useful Links - Under this tab, you will find our latest Learning Curve Newsletter. Starin believes in giving our dealers support tools to help them learn about new Sony products and initiatives. We also include links to the Sony Spiff Site, the Sony Pro Site, and to the Sony Service Center Site.

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