# NAB 2010 SONY PSE New Product Guide

For Sony Account Manager and Specialist Dealer Use Only Not for re-publishing

All pricing, availability, and specifications are subject to change without notice.

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## NAB 2010 Product Overview

Category	Model	Description	List Price Euro T2	Tentative / Confirmed	First Shipment
	SRW-5800/2	HDCAM SR Studio Recorder	€ 54,579		June 2010
	SRW-5500/2	HDCAM SR Studio Recorder	€ 79,869		July 2010
	SRW-5100/2	HDCAM SR Studio Player	€ 43,650	Tentative	July 2010
	SRW-5000/2	HDCAM SR Studio Recorder		Tentative	July 2010
	35mm Kit for				
Digtal Cinema		35mm upgrade kit for SRW-9000	TBC	TBC	TBC
Camera	F23/F35 Ver 1.5 Upgrade	F23/F35 Ver 1.5 Upgrade	F.O.C	Confirmed	July 2010
	XDS System Deck Family	XDS System Deck Family	TBC	Tentative	January 2011
	PDBK-MK1	Memory Card Adaptor for PDW-HR1	€4,500		September 2010
XDCAM	CBKZ-UPG01/ CBK-WA01	Planning Metadata option for PDW-700/F800	€1,130	Tentative	April 2010
	PDBZ-UPG02	Closed Caption Option for PDW-F1600/HD1500	€ 2,250	Tentative	April 2010
	PDBZ-UPG03	Voice Over Option for PDW-HR1	€ 750	Tentative	September 2010
	PMW-320K	1/2" XDCAM EX Shoulder Mount Camcorder with lens	€ 12,000	Tentative	August 2010
	PMW-320L	1/2" XDCAM EX Shoulder Mount Camcorder without lens	€ 10,500	Tentative	August 2010
	CBK-CE01	50-pin interface option	€ 900	Tentative	November 2010
	XDCA-53	HD Camera Adaptor for PMW-EX3	€ 2,500	Tentative	November 2010
	XDCA-55	HD Camera Adaptor for PMW-350 & 320	€ 2,500	Tentative	November 2010
	XDCU-50	Camera Extention Unit	€ 3,995	Tentative	November 2010
Power Supply		High Capacity 98Wh Battery	€ 298	Confirmed	April 2010
Systems	BP-GL65A	High Capacity 66Wh Battery	€ 358	Confirmed	April 2010
	DWM-01/F	Digital handheld microphone with uni-directional dynamic capsule	€ 2,560	Confirmed	April
:	DWM-01/C	Digital handheld microphone with uni-directional condenser capsule	€ 2,680	Confirmed	April
Pro Audio	DWR-R01D	2-channel digital rack-mountable receiver	€4,120	Confirmed	April
	AN-01	Uni-directional UHF Antenna	€ 482	Confirmed	April
	RMU-01	Remote Control Unit for Digital Wireless Microphone System	€ 700	Confirmed	April
AVCHD	HXR-MC50E	Ultra Compact AVCHD Camcorder	€ 1,400	Tentative	July 2010

Category	Model	Description	List Price Euro T2	Tentative or Confirmed	First Shipment
Network	MwM (tentative)	Media Workflow Management	TBC	TBC	TBC
Production	CMS (tentative)	Content Management System	\$200,000	Tentative	July 2010
	XDCAM Archive	XDCAM Archive	From €60000	Tentative	July 2010
	HKC-HB10	3G Fibre Transmission Unit for HDC-1000 & HDC-1000R	€ 13,500	Confirmed	May 2010
System	HKC-HB15	3G Fibre Transmission Unit for HDC-1500R, HDC-1400R, and HDC- 1500	€ 12,000	Confirmed	May 2010
Camera	HKCU-HB10	3G Fibre Transmission Unit for HDCU-1000	€11,500	Confirmed	May 2010
	HKCU-HB15	3G Fibre Transmission Unit for HDCU-1500	€11,000	Confirmed	May 2010
	HKCU-2005	3G Single Link Interface Unit	€4,500		May 2010
	RCP-1000	Simple remote control panel	€3,000	Confirmed	May 2010
	RCP-1001	Simple remote control panel	€3,000		May 2010
	RCP-1500	Touch panel type remote control panel	€4,250	Confirmed	May 2010
	RCP-1501	Touch panel type remote control panel	€4,250	Confirmed	May 2010
	RCP-1530	Slim, Joystick-type Remote Control Panel	€4,250	Confirmed	May 2010
Camera	MSU-1000	Master Setup Unit	€8,500	Confirmed	May 2010
narinharale	MSU-1500	Master Setup Unit	€8,500	Confirmed	May 2010
heilpileiais	HDVF-C550W	Compact HD Electronic Viewfinder	€4,800	Confirmed	May 2010
	DXF-C50W	LCD Colour Viewfinder	€2,400	Confirmed	May 2010
	HDVF-EL70	7.4" OLED Viewfinder for studio camera	TBC	TBC	TBC
	HDVF-EL75	7.4" OLED Viewfinder for portable camera	TBC	TBC	TBC
	3D Camera Fibre	30 Comora Eibra Adamtar			Cat
	PDI-SE10	Oution Transmission sustant for DDC 7330			
Remote		SU Analogue Card			
Camera	BRBK-SA1	SDI Card	TBC		
	BRBK-SF1	Optical multiplex card	TBC		
	CCFC-S200	Optical fibre cable	TBC	TBC	August 2010
Multi Image	(ELLCAMI)	Multiformat Ingest Station	\$60,000	Tentative	V1 - April 2010
10000001	MPE-200 (3D-Box)	Multi Image Processor	€27,000	Confirmed	Now
	MVS-6000 DME Non Linear Enabled	DME Non Linear Effects Enabled Software upgrade	F.O.C	Confirmed	Mav 2010
Cuitobor	MVS-8000G 3D&3G	3D Software released	€ 15,000		May 2010
OWICIEI	MVS-8000X series	New MVS-8000 series	€1 00,000 to €250,000		Julv 2010
	DFS-9000	Compact Multi-format Switcher	€20,000	Tentative	September 2010
	LMD-4251TD (3D)	42" High Grade 3D Monitor	-	Tentative	Autumn 2010
Monitor	LMD-2451TD	24" High Grade 3D Monitor		Tentative	Autumn 2010
	SRM-L560	56" Quad Full HD Monitor	€ 69,900	Tentative	M.T.O
	PVM-740	7.4" OLED Monitor	€3,050	Tentative	April 2010

## **Professional Services**

The 10 P's of Professional Services:

- People we have the knowledge and experience
- Promise to deliver bespoke solutions to meet our customers needs
- **P**roven track record of our achievements
- Portfolio
  - ~ Business Consulting
  - ~ Archive
  - ~ Playout
  - ~ News Production
  - ~ Studios
  - ~ Outside Broadcast trucks
  - ~ Enterprise Broadcast Solutions
  - ~ Digital Signage
  - ~ Sports & Entertainment Venues
- Partners we integrate partner solutions to meet our customers' vision
- Process our project management skills
- **P**C's (IT technology) our IT capabilities as well as core broadcast experience
- Presence our geographic spread across Europe, Middle East, Africa and the CIS
- Prime Contracting our ability to take on large scale projects
- Professional the Sony Team!

#### **Contacts**

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## Sony Financial Services

Sony's Financial Services are pleased to announce the following two new special finance promotions available from 1<sup>st</sup> May 2010.

24 months 0% finance\* available now on all PSE XDCAM EX and XDCAM HD tapeless products and accessories plus selected Trimaster Professional monitors

	XDCAM EX AND XDCAM HD TAPEL	ESS PRODUCTS AND	ACCESSORIES
	XDCAM EX		ACCESSORIES:
PMW-EX1R	Compact solid state camcorder	PDBK-103	Analogue Input Option
PMW-EX3	Semi-shoulder solid state	PDBK-104	SD SDI Input Option
PMW-EX30	camcorder	PDBK-201	MPEG TS Board for PDW-HD1500
PMW-350L	Semi-state recorder	PDBK-FC02	24p Record and Playback key for PDW-700
PMW-350K	Shoulder camcorder w/o lens	PDBK-F1500	24p Record and Playback key for PDW-
	Shoulder camcorder with lens		HD1500
		PDBK-L1500	Linear Edit Key for PDW-HD1500
	XDCAM HD	HDCA-702	Transport Stream Adaptor
PDW-F355L	Camcorder	CBK-SC02	Analogue Composite Input Board
PDW-F335K/2	Camcorder	CBK-HD01	HD/SD-SDI Input Board
PDW-F335L	Camcorder	CBK-DV01	DV Option Board
PDW-F75	Deck	CBK-SP01	Dynafit Shoulder Pad
		BP-GL95	Rechargeable Lithium-ion Battery Pack
	XDCAM HD422	BP-GL65	Rechargeable Lithium-ion Battery Pack
PDW-700//U	Camcorder	BP-GL65A	Rechargeable Lithium-ion Battery Pack
PDW-F800	Camcorder	BP-GL95A	Rechargeable Lithium-ion Battery Pack
PDW-	Deck	BP-L80S	Rechargeable Lithium-ion Battery Pack
HD1500/1		BP-L60S	Rechargeable Lithium-ion Battery Pack
PW-F1600	Deck	BC-L160	Battery Charger
PDW-U1	Professional Disc Drive	BC-L70	Lithium-ion Battery Charger
PDW-HR1	Field Station	BC-L500	Lithium-ion Battery Charger
		AC-DN10	AC Adaptor/Charger
	ACCESSORIES:	AC-DN2B	AC Adaptor & Lithium-ion Battery Charger
BC-U1	Battery Charger	HDVF-20A	B & W Viewfinder for PDW-700/F800
BC-U2	Dual Battery Charger	HDVF-200A	B & W Viewfinder for PDW-700/F800
BP-U30	Battery	HDVF-C35W//U	Colour Viewfinder for PDW-700/F800
BP-U60	Battery	HDVF-C30WR	Colour Viewfinder for PDW-700/F800
SBAC-US10	SxS PRO USB drive	DWR-S01D	Dual Digital Wireless Receiver
VCL-EX0877	Wide Angle Lens Adapter	DWT-B01	Digital Wireless Transmitter
HDVF-20A	HD Electronic Viewfinder	DWT-P01	Digital Wireless Plug-on Transmitter
HDVF-200	HD Electronic Viewfinder	DWA-01D	Digital Wireless Adapter
HDVF-	HD Colour LCD Viewfinder	ECM-680S	Shotgun Microphone
C35W//U		HDCA-702	Transport Stream Adaptor
CBKZ-MD01	SD Option for PDW-700	PDW-202	i.Link Transport Stream In/Out Board for
PDBK-S1500	SD Option for PDW-HD1500		PDW-HR1
PDBK-101	Network Option		
PDBK-102	MPEG TS Option		

	QUALIFYING TRIMASTER MONITO	RS PRODUCTS	S AND ACCESSORIES
	Main Models		Accessories - Rack Mounts
SRM-L560	56inch QFHD Master Monitor	MB-531	Mounting bracket for PVM-740
BVM-L231	23inch Full HD Master Monitor	MB-532	Mounting panel for PVM-740
BVM-L170	17inch Full HD Master Monitor		
PVM-L3200	32inch Full HD Broadcaster Monitor		Accessories - Others
PVM-L2300	23inch Full HD Broadcaster Monitor	BKM-16R	Control unit for BVM-L/PVM-L Series
PVM-L700	17 inch Full HD Broadcaster Monitor	BKM-23M	Protector Panel for BVM-L231/L170 and
PVM-740	7.4 inch OLED Professional Monitor		PVM-L2300
		ВКМ37Н	Controller attachment stand with tilt for
	Accessories - Option Boards		BVM-L231 and PVM-L2300
BKM-250TG	3G/HD/SD SDI input adaptor	ВКМЗ8Н	Controller attachment stand for BVM-L231
BKM-243HS	HD/SD SDI input adaptor		and PVM-L2300
BKM-220D	SD SDI input adaptor	ВКМЗ9Н	Controller attachment stand for BVM-L170
BKM-229X	Analogue Component input adaptor		and PVM-L1700
BKM-227W	NTSC/PAL input adaptor	SMF-700	Monitor interface cable for BVM-L/PVM-L
			Series
		VF-510	Monitor ENG Kit for PVM-740

# 24 months 0% finance\* available now on HDCAM SR products and accessories plus selected Trimaster Professional monitors

	QUALIFYING HDCAM SR PRODL	ICTS AND ACC	CESSORIES	
	Main Models			Camcorder Accessories
SRW-5000	HD Digital Recorder	HKSR-	9001	HD-SDI Expansion Board
Series		HKSR-	9002	Picture Cache Board
SRW-5500	HD Digital Videocassette recorder	HKSR-	9003	RGB Processing Board
Series		HKSR-	9004	<b>Remote Filler Wheel</b>
SRW-5800	HD Digital Videocassette recorder		AP-1	Assistant Panel
Series		HDVF-C3	OWR	HD Electronic Viewfinder
SRW-5100	Digital Videocassette player	CA	C-12	Microphone Holder
Series		ECM-	680S	Shotgun microphone
SRW-9000	Sony HDCAM SR Camcorder	AC-E	ON2B	AC Adaptor
		AC-E	ON10	AC Adaptor
	Deck Accessories	BC	-L70	Battery Charger
HKSR-5001/20	Format Conversion Board	BC-	L160	Battery Charger
HKSR-5002	Digital Betacam Decoder Board	BP-G	L65A	Battery Pack
HKSR-5003	4:4:4: RGB Interface	BP-GI	L95A	Battery Pack
HKSR-5802	HDCAM/Digital Betacam Processor Board	BP-	L60S	Battery Pack
HKSR-5803HQ	Advanced HQ Processor Board		L80S	Battery Pack
HKSR-5804	Network Interface Card	VC	T-14	Tripod Adaptor
HKSR-5103	Advanced HQ Processor			
HKSR-5105	HDMI/i. Link Interface			
	QUALIFYING TRIMASTER MONITORS	PRODUCTS A	ND ACCESSO	RIES
	Main Models		Accessorie	s - Rack Mounts
SRM-L560	56inch QFHD Master Monitor	MB-531	Mounting b	racket for PVM-740
BVM-L231	23inch Full HD Master Monitor	MB-532	Mounting p	anel for PVM-740
BVM-L170	17inch Full HD Master Monitor		0.	
PVM-L3200	32inch Full HD Broadcaster Monitor		Accessorie	s - Others
PVM-L2300	23inch Full HD Broadcaster Monitor	BKM-16R	Control uni	t for BVM-L/PVM-L Series
PVM-L700	17inch Full HD Broadcaster Monitor	BKM-23M	Protector P	anel for BVM-L231/L170 and
PVM-740	7.4 inch OLED Professional Monitor		PVM-L2300	
		BKM37H	Controller a	attachment stand with tilt for

#### **Accessories - Option Boards**

BKM-250TG	3G/HD/SD SDI input adaptor
BKM-243HS	HD/SD SDI input adaptor
BKM-220D	SD SDI input adaptor
BKM-229X	Analogue Component input adaptor
BKM-227W	NTSC/PAL input adaptor

MB-531	Mounting bracket for PVM-740
MB-532	Mounting panel for PVM-740
	Accessories - Others
BKM-16R	Control unit for BVM-L/PVM-L Series
BKM-23M	Protector Panel for BVM-L231/L170 and
	PVM-L2300
BKM37H	Controller attachment stand with tilt for
	BVM-L231 and PVM-L2300
BKM38H	Controller attachment stand for BVM-
	L231 and PVM-L2300
ВКМ39Н	Controller attachment stand for BVM-
	L170 and PVM-L1700
SMF-700	Monitor interface cable for BVM-L/PVM-L
	Series
VF-510	Monitor ENG Kit for PVM-740

## Sony Financial Services

Additional Sony PSE and non Sony products and accessories may also be added to the finance arrangement to give the customer one leasing transaction, but at standard rates and not on the promotional offering. The customer will receive one blended rate finance transaction.

Promotion Start Date: 1st May 2010 Promotion End Date: 31<sup>st</sup> July 2010

All customer finance applications to be with your local Sony's Financial Services office by close of business on the 31<sup>st</sup> July 2010. Customer orders must thereafter be placed by close of business on the 31<sup>st</sup> August 2010.

\* Finance Rate and term may differ as a result of local driven leasing legislation and restrictions. Local promotion details for your country of business are available from your local Sony's Financial Services contact.

#### **Promotion Conditions:**

- 1. For business users only for new Sony PSE products and subject to credit status. Local terms and conditions apply.
- Sony's Financial Services finance offerings and promotions are available to end customers through Sony PSE Direct sales and Sony PSE Specialist Dealers in countries where Sony's Financial Services are operational.
- 3. 4.

Timing of the delivery of the equipment takes place subject to product availability.

This finance promotion may be combined with other Sony PSE promotions running during this promotion period.

**Countries Covered by Promotion:** UK, France, Germany, Italy, Spain, Netherlands, Belgium, Denmark, Sweden, Finland, Norway, Austria, Switzerland, Portugal, Greece, Czech Republic, Slovakia, Hungary, Slovenia, Poland, Bosnia and Herzegovina, Croatia, Serbia, Bulgaria, Romania.

#### Flexible finance solutions available at all times

In addition to the limited period finance promotions that are run from time to time, Sony's Financial Services have a range of flexible finance solutions available at all times for all Sony professional products and solutions (hardware, software and services - Sony and non-Sony).

Also available are Residual Value based Operating Leases on all Sony PSE High Definition products, and Canon lenses (when acquired together with a Sony PSE High Definition content creation product). Because of the attractive residual values that Sony's Financial Services have agreed with their funders, this rental Operating Lease finance solution delivers the customer extremely low monthly payments and potential off-balance sheet benefits too.

#### Contact

For details of the local finance promotion offerings and all finance solutions for your country of business, please contact your local Sony's Financial Services Account Manager.

If for any reason you are not sure who your local Sony's Financial Services Account Manager is, please contact:

Michelle Simpson - Marketing Manager Sony's Financial Services Email: <u>michelle.simpson@eu.sony.com</u> Mobile: +44(0)7787 592592

Michelle is also in attendance at NAB for the full duration of the event.

# HDCAM SR

Key Messages	<ul> <li>Provides best total performance for picture quality, including multiple dubbing, for high end applications</li> <li>Multi Frame Rate</li> <li>1080 and 720P native support</li> <li>Format conversion to other HD and SD standards</li> </ul>
	12 audio channels
Comments	MPEG 4 studio profile compression
	• 12 channel 24 bit 48 Khz audio
	Full studio VTR specification
	Long recording time

POP (Product Overview Publication)         The latest evolution of this HDCAM SR Studio Recorder. Combines fantastic picture performance with an exceptional feature set for 3D, 1080/50P, 2K, 4K and file-based applications.         Market         Application         Broadcasters, Outside Broadcast, Post Production and Rental         Highest quality TV, sports, commercials and ciner productions         List Price         Availability       Contract category         TBA - No price premium expected over current SRW-5800/1       July 2010         HDB       N/A         Feature         HDCAM SR recording for exceptional picture quality         Accepted worldwide as highest quality interchange format and ideal for archival
picture performance with an exceptional feature set for 3D, 1080/50P, 2K, 4K and file-based applications.       Application         Market       Application         Broadcasters, Outside Broadcast, Post Production and Rental       Highest quality TV, sports, commercials and ciner productions         List Price       Availability       Contract category       Predecessor         TBA - No price premium expected over current SRW-5800/1       July 2010       HDB       N/A         Feature       HDCAM SR recording for exceptional picture quality       Vertice quality
Broadcasters, Outside Broadcast, Post Production and Rental       Highest quality TV, sports, commercials and ciner productions         List Price       Availability       Contract category       Predecessor         TBA - No price premium expected over current SRW-5800/1       July 2010       HDB       N/A         Feature       HDCAM SR recording for exceptional picture quality       Vertice quality       Vertice quality
TBA - No price premium expected over current SRW-5800/1       July 2010       HDB       N/A         Feature         HDCAM SR recording for exceptional picture quality
over current SRW-5800/1     July 2010     HDB     N/A       Feature     HDCAM SR recording for exceptional picture quality
HDCAM SR recording for exceptional picture quality
Accepted worldwide as highest quality interchange format and ideal for archival
Record and playback in 1080/23.98PsF, 24PsF, 25PsF, 29.97PsF, 50i, 59.94i and 60i
4:2:2 1080/50P and 60P modes
3D recording (Dual Stream) with optional HKSR-5803HQ board
4:4:4 HQ mode with optional HKSR-5803HQ board
Transfer of DPX, Cineon and TIFF files via Gigabit Ethernet
4K (4096 x 3112)/2K (2048 x 1556) uncompressed DPX data recording using optional HKSR-5804 board
NEW: 422 x2 recording (July)
NEW: RGB 444 x2 playback and recording support using 2 x 3G (December)
NEW: 3D RGB support (December)
NEW: 96KHz audio sampling support especially for BluRay mastering (December)
NEW: SStP support over GbE using MXF including SR Lite
NEW: RGB SQ, 1080 50/60P and 2 x 422 transfer support as standard feature
NEW: 2K DCI support 2048 x 1080 12 bit XYZ in real time
NEW: 2K resolution support up to 2048 x 1556 in real time (December)
NEW: 3D and RGB HQ require option 5803HQ board
NEW: 5803SQ board discontinued
NEW: Upgrade kit available (July)

Content Creation Marketing			NEW: SRW-5100/2		
POP (Product Overview Publication	)				
The latest evolution of this HDCAM SR picture performance with an exception 2K applications.			<b>— — —</b>		
Market		Application			
Broadcasters, Outside Broadcast, Post	Production and Rental	Highest quality TV, s productions	sports, commercials and cinema		
List Price	Availability	Contract category	Predecessor		
TBA - No price premium expected over current SRW-5100/1	July 2010	HDB	N/A		
Feature					
HDCAM SR format for exceptional pict	ure quality				
Accepted worldwide as highest quality	interchange format and	d ideal for archival			
Playback in 1080/23.98PsF, 24PsF, 25F	PsF, 29.97PsF, 50i, 59.94	li and 60i			
4:2:2 1080/50P and 60P playback					
3D playback (Dual Stream) with option	al HKSR-5103 board				
4:4:4 HQ mode with optional HKSR-510	03 board				
Playback of Digital BETACAM and HDCA	AM tapes with optional H	IKSR-5802 board			
HKSR-5105 option for HDMI and HDV or	utput				
NEW: RGB 444 x2 playback support usi	ng 2 x 3G (December)				
NEW: 3D RGB playback support (Decer	nber)				
NEW: 96KHz audio sampling support e	specially for BluRay mas	tering (December)			
NEW: RGB SQ,1080 50/60P and 2 x 422	2 playback transfer supp	ort as standard feature	e		
NEW: 2K DCI support 2048 x 1080 12 b	it XYZ playback in real ti	me			
NEW: 2K resolution support up to 2048	3 x 1556 playback in real	time (December)			
NEW: 3D and RGB HQ playback require option 5103 board					
NEW: HKSR-5105 option for HDMI and	HDV output				

## **Digital Cinematography Cameras**

**Key Messages** 

- Ultimate 2K quality image
- Use all Arri film camera accessories
- HDCAM SR recording format
- Variable frame rate 1 60P (F23) 1 50P (F35)
- Launch of SRW-9000PL with Super 35mm sensor and PL lens mount
- HKSR-90PL option also launched at NAB adds 35mm operation to existing SRW-9000 Camcorders

#### Comments

- Hypergamma and S-log gamma for extreme latitude
- Ultra wide colour gamut with PL Sensor
- Monitor LUT included as standard
- Cine mode for simple film style operation

#### NEW: SRW-9000PL and HKSR-90PL

#### POP (Product Overview Publication) HDCAM SR is globally established as the industry standard for the highest quality production, post and programme exchange, and the SRW-9000 has set the standard for acquisition since launch. This latest model, the SRW-9000PL, uses a Super 35mm sensor and PL lens mount to provide even more creative control over the image. An HKSR-90PL option also launched at NAB adds 35mm operation to existing SRW-9000 camcorders, reaffirming the camcorder's position as the best in the industry. Market Application Highest quality TV, commercials and cinema Rental houses operating at top-end of market production Availability List Price Contract category Predecessor SRW-9000PL Tentative list price of N/A, but ideal replacement \$125k announced at NAB (€ price TBA) End November 2010 HDB for early HDW-F900 models **HKSR-90PL** Tentative list price of in the market. \$60k announced at NAB (€ price TBA) Feature Industry-standard HDCAM SR recording for exceptional imaging performance Super 35mm single CCD image sensor and PL lens mount for even more creative control Sensitivity, S/N and Dynamic range equivalent to F35 camera RGB 444 recording, with variable 1 to 50P frame rate 3G interface feature (output only) PL mount upgrade path - HKSR-90PL option to add Super 35mm sensor and PL mount to existing SRW-9000 camcorders SR memory upgrade path for "camcorder for life" future-proofing

## XDCAM HD422

<ul> <li>Taking high definition XDCAM performance to a new level with best-ever picture and sound quality in the XDCAM line-up</li> <li>Consistent workflow with existing XDCAM and XDCAM HD systems with same proxy, thumbnails, media and metadata</li> <li>A key part of the XDCAM family with over 130,000 Professional Disc-based camcorders, decks and disc drives sold worldwide</li> <li>XDCAM HD422 platform provides compatible record and replay of existing XDCAM SD and XDCAM HD formats</li> </ul>
<ul> <li>4:2:2 sampling, 50 Mb/s video data rate and 14 bit A/D conversion in camcorder for picture excellence</li> <li>Multi-format operation (including 1080 and 720)</li> <li>Low cost Single Layer and Dual Layer Professional Disc media with excellent archive potential of 50+ years</li> <li>Comprehensive model line-up including PDW-700 &amp; PDW- F800 camcorders, PDW-HD1500 &amp; PDW-F1600 recorders, PDW-HR1 field station and PDW-U1 external drive</li> </ul>

The PDW-F800 XDCAM HD422 camcorder builds on the features of the hugely successful PDW-700. Enhanced functions such as CineAlta 1080/23.98P acquisition, SD recording as standard, Slow & Quick Motion (over-crank and under-crank) and UserGamma are included. These make the PDW-F800 ideal for expanding the range of programme genres using XDCAM HD422 - especially natural history, TV drama, documentaries and programmes shot for a US/Japanese audience or cinema release.



Ideal for broadcast, news & current affairs, TV

drama, natural history and international co-

Offers greater flexibility in production and

#### Market

List Price

Feature

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€ 36,905 T2 € 32,373 T1

Perfect for the world's broadcasters, film makers, rental market, production companies and freelancers.

			productions.			
ice	Availab	ility	Contract catego	ry	Predecessor	
9,905 T2 2,373 T1	Now shi	ipping	Specialist dealer a HDB endorsem		No predecessor but builds on the existing features of the PDW-700	
e		Advantage		Benefi	t	
24P (23.98P) - Progressive reco standard feature	sive recording			More opportunities for productions intended release in the USA/Japan		
standard fo		Available in progressive formats, over cranking speed up to x2.0 (i.e. ½ slow speed)		Offers camera operators additional creativity particularly for drama, wildlife and sport. Offers rental companies a wider client base.		
SD (MPEG IMX & DVCAM) standard feature	k	Expands the range of shooting formats to include SD		Allows existing SD users to shoot SD today, the migrate to HD in the future.		
User Gamma		The gamma cur changed using ( addition to the of Hyper Gamm	CVP Editor in current 4 types	compa	more creative control to users. Rental nies can complete in "higher-end" t place for faster ROI.	

Application

	Independent control of colour
<ul> <li>Dual optical filters</li> </ul>	temperature and neutral

	density.	creative image control
Competition	Street Price (public list price)	Top 3 values of Sony
<ul> <li>Panasonic AJ- HPX3700 2/3" 3-CCD 1080 P2 HD VariCam Camcorder with 4:4:4 Capability</li> <li>Panasonic AJ- HPX2700 2/3" 3-CCD 1080 P2 HD VariCam Camcorder</li> </ul>	USD59,950 (Euro 44,891*) USD39,950 (Euro 29,915*) (http://catalog2.panason ic.com/webapp/wcs/stor es/servlet/ModelList?stor eld=11201&catalogId=130 51&catGroupId=112002 25/3/20010) (* exchange rate www.bbc.co.uk 25/3/20010)	<ul> <li>Great reputation of the XDCAM format and CineAlta brand with over 600 movies shot in CineAlta around the world.</li> <li>Companion product to PDW-700, same recording format and legendary ease of use - and now with variable frame rate.</li> <li>Strengthening of the XDCAM line up - a format purchased by many prestigious European broadcasters.</li> </ul>
Red One Digital Cinema Camera	Starting at USD17,500 for camera body (Euro 13,104*) (www.red.com/store 25/3/200910) (* exchange rate www.bbc.co.uk 25/3/20010)	<ul> <li>Great reputation of the XDCAM format and CineAlta brand with over 600 movies shot in CineAlta around the world.</li> <li>Proven, straightforward XDCAM workflow.</li> <li>Lightweight body, low power consumption, fast boot up time, rugged reliable construction.</li> </ul>

#### PDW-F800

#### PDW-F1600

## POP (Product Overview Publication)

The PDW-F1600 is based upon the PDW-HD1500, with additional features added to take performance beyond that of conventional file-based recording deck. With its insert/assemble editing capability, it can be used as a recorder in a linear editing system - for conventional "VTR-like" operation. CineAlta branded, the deck offers 24P (23.98P) progressive recording in addition to 1080i, 720P and DVCAM / MPEG IMX SD as standard, Picture Cache Recording (up to 30 seconds) and Disc Exchange Cache.

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6.5		

5	Applicatio						
quipment rental mark			oadcast applications, outside				
	broadcast	broadcasts, cinema and TV drama productions and post					
1	1						
			Predecessor				
pping now							
Advantage	endorsement	Renefit					
Expands the range recording/playbac	Expands the range of recording/playback formats to		for productions intended for /Japan.				
		Allows existing SD migrate to HD in th	users to shoot SD today, then ne future.				
<ul> <li>High-quality eight- channel 24-bit audio recording.</li> <li>eight channels throu AES/EBU inputs. Inputs. channel mix capabil several audio channel</li> </ul>		Allows soundtracks to be kept as discrete audio channels for multi-lingual/ multi-region productions and work with 5.1 surround sound and Dolby E					
video or File Acces offering a wide rar	ss Mode (FAM) nge of	Cross conversions, up-res and down-res can be done within the PDW-F1600 negating the need external addition equipment					
capability can be u recorder in a linea	used as a ir editing	Offers a smooth transition to file-based production as the PDW-F1600 can interface with existing linear production equipment until the customer is ready to move to file-based					
	c list Top	3 values of Sony					
	0	progressive recordin	DCAM format with 24P (23.98P) g and 8 channels of 24 bit				
(source: http://www.mitco		existing SD users to	as standard feature - Allows record SD today, then migrate				
25/3/10	•	Compact and portab and can be powered					
	ilability pping now Advantage Expands the range recording/playbac include 24P (23.98 Expands the range formats to include definition Audio insert input eight channels thr AES/EBU inputs. I channel mix capats several audio char mixed into a desir Can operate in eit video or File Acces offering a wide rat connectivity optio Insert/assemble et capability can be of recorder in a linear system - just like av VTR. Street Price (publistion) Approx: 17.2k Eurol (source: http://www.mitco	Application         quipment rental market,       The PDW-broadcast production         ilability       Contract category         pping now       Specialist dealed endorsement         Advantage       Expands the range of recording/playback formats to include 24P (23.98P)         Expands the range of recording formats to include standard definition       Audio insert input to five to eight channels through four AES/EBU inputs. Input audio channel mix capability allowing several audio channels to be mixed into a desired channel         Can operate in either baseband video or File Access Mode (FAM) offering a wide range of connectivity options       Insert/assemble editing capability can be used as a recorder in a linear editing system - just like a conventional VTR.         Street Price (public list price)       Top         Approx: 17.2k Euro       .         (source: http://www.mitcorp.com)       .	Applicationquipment rental market, te and publicThe PDW-F1600 is ideal for br broadcasts, cinema and TV dr production.ilabilityContract categorypping nowSpecialist dealers holding an HDB endorsementAdvantageBenefitExpands the range of recording/playback formats to include 24P (23.98P)More opportunities release in the USA/ migrate to HD in the definitionAudio insert input to five to eight channels through four Ass/EBU inputs. Input audio channel mix capability allowing several audio channels to be mixed into a desired channelAllows soundtracks channels for multi- productions and wo and Dolby ECan operate in either baseband video or File Access Mode (FAM) offering a wide range of connectivity optionsCross conversions, done within the PD external addition eInsert/assemble editing capability can be used as a recorder in a linear editing system - just like a conventional VTR.Offers a smooth tra production as the F existing linear proc customer is ready to customer is ready to cust				

The PDW-HR1 XDCAM HD422 Field Station further enhances the operational capability of the XDCAM family and packs a large number of functions into its compact yet robust body. With a large 9-inch\*1 WVGA LCD, material can be checked on the spot and a wide variety of GUIs offers superb operational efficiency as well as Picture Cache Recording and Disc Exchange Cache. It provides multi-format recording capability as standard, including a frame rate of 23.98P in 1080 mode and SD recording. A wide range of signal interfaces, including baseband video (composite, HD/SD-SDI), Gigabit Ethernet, MPEG TS, DVB-ASI, and HDMI are also provided. What's more, an FTP client capability allows the PDW-HR1 to transfer files via its Ethernet connection without the need for a PC.



1	Private	ጼ	public	broadcasters
	Invato	œ	public	Dioducasters

2. Rental market

Market

3. Existing XDCAM customers

Operational capability with the XDCAM family for location/field recording and playback up to HD422 50 Mb/s. Suited to OB's, flyaway kits, EFP/ENG, reality programming etc.

List Price	Availability		ract category	Predecessor	
€ 19,190 T2 € 18,505 T1	Now shipping	a HDI	alist dealers hold B accreditation rsement	No predecessor, but a natural successor to the PDW-R1	
Feature	Advantage		Benefit		
<ul> <li>Highly portable, compact, light weight</li> </ul>	Easy to carry and transpo	ort	Lower freight and	storage costs	
<ul> <li>Multi-format recording including 24P (23.98P) progressive and SD as standard</li> </ul>	Expands the range of recording formats to incl 24P (23.98P)	ude	Now caters for productions intended for cinema release in the USA		
<ul> <li>Wide range of signal interfaces</li> </ul>	Can operate in either baseband video or File Access Mode (FAM) offer wide range of connectivi options		Cross conversions, up-res and down-res can be done within the PDW-F1600 negating the need for additional external equipment		
Large 9-inch*1 WVGA LCD     screen	A wide variety of GUIs of superb operational effici		Material recorded can be checked on the spot		
Excellent user interface for EDL-based (non destructive) editing	Will offer EDL-based voiceover option		News, current affairs, reality TV, documentary productions can be prepared in the field prior to post production		
Competition	Street Price (public list price)	Тор 3	values of Sony		
<ul> <li>Panasonic AJ-HPM110 Portable P2 HD/SD multi-format recorder</li> </ul>	tv/panasonic_1341.ph	loc • Re • Ca Ac	ation/field cording and playbac n operate in either	with the XDCAM family for ck up to HD422 50 Mb/s. baseband video or File fering a wide range of	

Application

\*1: Viewable area measured diagonally. \*2: Requires optional PDBK-202 board.

#### PDW-HR1

The PDW-700 XDCAM HD422 camcorder has taken tapeless high definition recording to a new level with amazing picture and sound quality. Offering HD422 sampling, 50 Mb/s video data rate and 14 bit A/D conversion in camcorder for picture excellence. The HD422 line-up has widened the appeal of XDCAM and has become "The Producers Choice"



#### Market

The PDW-700 is suitable for a wide range of end users including rental companies, production companies, public and commercial broadcasters

#### Application

Ideal for many applications including TV drama, documentaries, general entertainment & also for ENG & sport where speed of operation is a critical requirement.

List Price	Availability		Contract category	-	Predecessor	
€ 25,949 T2 € 25,949 T1	Now shipping	g Specialist dealers with HDB endorsement		th a	No predecessor but builds on the existing features of the PDW- F355	
Feature		Advantage		Ben		
HD422 sampling		•	picture quality	Great opportunity for quick ROI (Return On Investment) for rental companies		
Uses Professional Disc f	format	low cost pe	roven technology & er gigabyte		cost and peace of mind for the user	
SD (MPEG IMX & DVCAM feature			e range of shooting include SD		ws existing SD users to shoot SD ay, then migrate to HD in the future.	
Multi-format operation     1080i & 720P) & IMX (operation)		of formats	de range of choice and bit rates		uly "international" camcorder	
Compatible with digital		viewfinder	nel, metadata in r, remote control	Saves time, is secure and ensures hi quality audio recording		
Competition	Str	reet Price (p	ublic list price)		3 values of Sony	
Panasonic AJ- HPX2700 2/3" 3-CCD 1080 P2 HD VariCam Camcorder	(ht we Lis 1& 25 (* 1	bapp/wcs/s st?storeId=11 catGroupId= /3/20010)	g2.panasonic.com/ tores/servlet/Model 201&catalogId=1305	i f 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	The best tapeless format in the ndustry in terms of performance, features, media cost & cost of ownership. 50 Mb/s MPEG HD422 Long GOP compression for the best combination of picture quality, record time, network bandwidth & storage costs. Strengthening of the XDCAM line up - a format purchased by many prestigious European broadcasters.	
Red One Digital Cinema	) S bo ( <u>w</u> 25 (* (	dy (Euro 13, <u>ww.red.com</u> /3/200910)		•     	Proven, straightforward XDCAM workflow. Lightweight body, low power consumption, fast boot up time, rugged reliable construction. Low resolution proxy copy built in.	

The PDW-HD1500 is a compact HD recorder which provides outstanding picture quality of MPEG HD422 as well as an eight-channel (HD-SDI), 24-bit audio recording capability, and the ability to operate on AC, DC or power. The PDW-HD1500 is a half-rack-wide recording deck equipped with a range of AV and IT interfaces including HD-SDI, SD-SDI, i.LINk and Ethernet. One of the distinctive features of this product is its powerful dual-optical head, offering fast file transfer.



PDW-HD1500

Market Existing XDCAM customers, equipment rental market, production companies, private and public broadcasters. Application The PDW-HD1500 is ideal for broadcast applications, outside broadcasts, sport, TV drama productions and post production.

			post production.			
		ilability Contract			Predecessor	
€ 20,001 T2 € 17,560 T1	Now	shipping	Specialist holding an endorseme	HDB ent	PDW-15000	
Feature		Advantage		Benefit		
Uses Professional Disc format		Trusted, proven te & low cost per giga	abyte	Large recording capacity		
SD (MPEG IMX & DVCAM) option     feature	onal	Expands the range recording formats standard definition	to include າ		ng SD users to shoot SD migrate to HD in the future	
<ul> <li>High-quality eight-channel 24 audio recording.</li> </ul>	-bit	Audio insert input to five to eight channels through four AES/EBU inputs. Input audio channel mix capability allowing several audio channels to be mixed into a desired channel		Allows soundtracks to be kept as discrete audio channels for multi-lingual/ multi- region productions and work with 5.1 surround sound and Dolby E		
Wide range of signal interface	Can operate in eith baseband video or Access Mode (FAM) a wide range of co options		File ) offering	le ffering ectivity cross conversions, up-res and dowr can be done within the PDW-HD150 negating the need for external add equipment		
• 24P (23.98P) - Progressive recording option		Expands the range of recording/playback formats to include 24P (23.98P)		More opportunities for productions intended for release in the USA/Japan.		
Competition		Street Price (publi price)	c list	Top 3 values	of Sony	
anasonic AJ-HPS1500		Approx: 17.2k Eur (source: http://www.mitco 25/3/10		<ul> <li>All the benefits of XDCAM format with 24P (23.98P) progressive recording and 8 channels of 24 bit audio</li> <li>Standard Definition as standard feature - Allows existing SD users to record SD today, then migrate to HD in the future.</li> <li>Compact and portable - Half rack width and can be powered by batteries</li> </ul>		

#### Content Creation Marketing

Market

## **Product Overview Publication**

The new XDS family of system decks are an exciting addition to the XDCAM professional disc and EX range. Providing a bridge solution of memory media and professional disc, 2 models within the family will also offer the new 4G drive and Quad-Layer disc for the XDCAM archive solution. The XDS family of system desks will help improve network performance & workflow functionality, expanding XDCAM applications by utilising an internal SSD/HDD recorder.

XDS decks will Support playback of all XDCAM / XDCAM EX file formats and the recording format of the internal storage are same as XDCAM (UDF, MXF). MP4 and AVI files are converted to MXF when they are transferred and they will also support XDCAM metadata recording.

XDS will provide smooth migration from SD to HD with built-in format converter, up converter for recording and up/down-conversition and 1080/720 Crossconverter for playout

Please note: The XDS is a Research & Development item and will be shown in Tiffany case in main floor with no product announcement at NAB2010. Application

Broadcaster, production, sports/event production, XDCAM Phase-3 users & PMW-350 users, non broadcast customers e.g. DSR-DR1000 users who are considering to HD			OB's, ingest areas/machine rooms, post production			
List Price	Availa	bility	Contract category		Predecessor	
ТВА	From .	January 2011 Specialist dealers ho an HDB endorsement			None	
Feature		Advantage		Benefit		
		Provide XDCAM " Bridge" soluti			xS and Professional Disc w closer together	
Supports new 4G PD Drive and 4-layer     Disc		Larger storage and high speed access		Offers archive solutions		
Supports all XDCAM / XDCAM EX file formats, codec and metadata		Provide XDCAM / XDCAM EX " Bridge" solutions		Format "transparent"		
Multi-task operating by the internal Enhances internal Storage Network Produ		operability with Speeds up production work		up production workflow		
Follows a user interface at the conventional deck     Easy to use, conventional deck		nfigure and	Easy ope	eration use		



#### NEW: XDS System Decks

XMPilot is a new workflow solution that offers PDW-700 & PDW-F800 offers users the ability to seamlessly transfer Planning Metadata from newsroom or production office to camcorders in the field. The wireless operation is activated by software product, CBKZ-UPG01 SONY Software Upgrade Key which can work with V1.6 firmware for PDW-700/F800. Bundled with the CBK-WA01 Sony Wi-Fi Adapter is the Sony Planning Metadata Add-in which allows users to view live video on a smartphone display and log with touch panel, create and edit Planning Metadata with MS Outlook 'Task', transfer Planning Metadata by email, and offers direct Planning Metadata transfer via Wi-Fi.

Market			Application			
All broadcast and non broadcast markets			News, sport, current affairs, drama, natural history, corporate and documentary.			
List Price	Availa	bility	Contract category		Predecessor	
Approx €1,300 T2	April 2	2010	Specialist dealers w HDB endorsement	ith a	None	
Feature		Advantage		Benefit		
Live logging		Log shots in the field		Saves time in ingest and post production		
Slug Based File name	Slug Based File name		Easy to Find Target Video file		me in ingest and post ion	
Clip and Assignment Link information for Auto Ingest		Automatic Ingest		Saves time in ingest and post production		
Import Planning Metadata and NRT Metadata in the XDCAM Disc		Save time typing Metadata during Ingest		Saves time in ingest and post production		
Various Metadata for Search and     Preview		Quick Access		Saves tir producti	me in ingest and post ion	

#### NEW: XMPilot

The PDBZ-UPG02 option has been developed to address broadcaster's needs to supply XDCAM programming with Closed Captions and builds on features first offered with V1.5 firmware.

Most commonly, closed captions are used by deaf community or hard of hearing individuals to assist comprehension. They can also be used as a tool by those learning to read, learning to speak a non-native language, or in an environment where the audio is difficult to hear or is intentionally muted. Market

#### **NEW: Closed Caption** Option



Existing XDCAM customers, private and public broadcasters.

Existing XDCAM customers, private and public broadcasters.			applications where closed captions required		
List Price	Availa	bility	Contract category		Predecessor
€2,250 T2 (tentative) list price	ТВА		Specialist dealers with a HDB endorsement		Requires V1.6 firmware (FOC)
Feature		Advantage		Benefit	
<ul> <li>When discs are down-convert play back, EIA608 will be out on SD-SD Line21</li> </ul>	Offers a wider r		range of Closed nats and options	Ease of operational use	
• EIA-608⇒EIA-708 Convert E to E		Offers a wider range of Closed Captioning formats and options		Ease of	operational use
		Offers a wider i Captioning form	range of Closed nats and options	Ease of (	operational use
		Offers a wider i Captioning form	range of Closed nats and options	Ease of (	operational use

Application

The PDBZ-UPG02 option is ideal for broadcast

The PDW-HR1 XDCAM HD422 Field Station further enhances the operational capability of the XDCAM family and packs a large number of functions into its compact yet robust body.

The PDBK-MK1 option (SxS Card Interface Option for PDW-HR1) allows SxS and multidisc hybrid operation and editing

The PDBZ-UPG03 option (Voiceover Option for PDW-HR1) allows users to record and edit voiceovers in the field. Market Application

Availability

October 2010

#### Private & public broadcasters

Rental market

PDBK-MK1 €4,500 T2

PDBZ-UPG03 €750 T2

List Price

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Existing XDCAM customers

Offers Voiceover operation (PDBZ-UPG03) & SxS and multi disc editing (PDBK-MK1) for the PDW-HR1 and operational capability with the XDCAM family for location/field recording & playback up to HD422 50Mb/s.

required

Contract category

HDB accreditation

Specialist dealers hold a

	PDBZ-0PG03 €750 12			endorsement		(released Oct 2010)
ЪС	BK-MK1 Feature		Advantage		Benefit	
•	Simultaneous SxS Recording & Play for PDW-HR1	/back	Supports Profes recording	sional Disc and SxS		afety of recording and f fast turnaround on
•	SxS ⇔ PD File Copy & Transcode Dubbing		Copy content fr another	om one media to	Exchange	e media easily
•	PD User Data Area (MXF/MP4) View	ving	View content in	data area	Added fl	exibility
•	Both REC/PLAY of FAT(MP4) and UDF(MXF) are available at the sam time	ie	Supports Profes recording	sional Disc and SxS	Added fl	exibility
•	Support Wrapper Conversion of MF HD420 SP, HQ -> MXF	24,	Supports Profes recording	sional Disc and SxS	Added fl	exibility
ЪС	BZ-UPG03 Feature		Advantage		Benefit	
•	Allows location voiceover recordin PDW-HR1	g with	Compact, lightv	veight	Quick tu solution	rnaround field edit
•	Audio Split Edit (Non-destructive E basis)	ÐL	Allows for more	creative editing	Can com location	plete finished edit on
•	Audio Level Adjustment (Non- destructive EDL basis)		Allows operator	s to control audio	Playout	in the field
•	Software key		Quick & easy to	install	Minimum	n engineering time

#### **NOTE: Voiceover Trial Campaign**

V1.6 (release in Mar.'10) is positioned as a V/O trial version without software key, Voiceover Function can be activated and used. Some features will be delayed to V2.0. V/O function will be disabled in Jan.1<sup>st</sup> of '11 onwards, V2.0 will be an official version to be released in Oct. 10. This is for the official version of V/O and SxS option. PDBZ-UPG03 is required to activate V/O function. Purchase SxS Op. (PDBK-MK1) and Get Voiceover function free. Installing PDBK-MK1 board can also activate V/O function without PDBZ-UPG03.

NEW: PDW-HR1 Options



Predecessor **Requires V2.0** 

firmware upgrade

At NAB 2010 Sony will announce a new, larger capacity Professional Disc. A huge 128GB Write-Once PFD with exceptionally fast transfer speed that is perfect for today's storage needs. It consists of a plastic disc substrate with 4 independent recording layers separated by 3 transparent space layers beneath a cover layer. Each recording layer can store 32GB so with 4 layers it can achieve a total capacity of 128GB.





#### Market

All broadcast and non broadcast markets

Playout, transmission, storage and archive

Application

List Price	Availa	bility	Contract category		Predecessor
ТВС	TBC		ТВС		23.3 & 50 GB Discs
Feature		Advantage		Benefit	
Small, compact and inherently rel	iable	Sony has unriva the broadcast r	alled experience in market		ty, longevity and onal performance
Lower cost per GB		Lower storage costs		Saves m	oney
Proven technology		Sony has a worldwide technical service network		Security	
More than 1,000,000 sold	Sony has unriva PD technology		alled experience in and support	Reliabili professio	ty, longevity and onal performance
• Supports existing 23.3 & 50 GB dis	CS	Adds larger cap	acity storage	More ch	oice to customer

Cinémon is a high-performance workflow accelerator for use with Final Cut Pro. The plugin is transparent and has been designed to operate with multiple FCP stations accessing Omneon servers. It allows XDCAM users to quickly and directly access files from FCP. Cinémon supports edit-while-ingest, in multiple formats and render via XDCAM Export Tool.

NEW: cinémon

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XDCAM Export Tool.				
Market		Application		
All broadcast and non broadcast markets		Post production using FCP		
List Price	Availability	Contract category	Predecessor	
€650 T1 & T2 - volume discounts available	Now shipping	Currently CSO's only	None	

#### Sony Formats supported by cinémon

- XDCAM Proxy \*\*
- XDCAM HD 18,25,35,50Mbps 60i/50i/23.98p/25p/29.97p
- XDCAM HD 720 50p/60p
- XDCAM EX 25, 35 Mbps 60i/50i/23.98p/25p/29.97p
- XDCAM DVCAM
- XDCAM IMX
- Files exported via XDCAM Transfer Tool

#### **Omneon Formats**

- (Ingested by Omneon Spectrum or MediaDeck with v5.2.0.10 or v5.5 firmware)
- HD XDCAM MXF 35/50Mbps files
- IMX D10
- HD XDCAM MXF 35/50Mbps low-latency files (requires Omneon Firmware v5.5)

\*\*Requires rendering of audio for preview playback in timeline. Requires full render for final output.

#### Supported Operating Systems and Software

- Mac OS 10.4 or Mac OS 10.5 (10.6 being qualified)
- Apple Final Cut Pro 6.0.6, and 7.0 (7.0 is required for edit-while-ingest on Omneon)
- QuickTime 7.6.2
- XDCAM Transfer v2.9.0 or later

#### **Minimum Hardware Specifications**

- Intel 1.83 GHz Core 2 Duo
- 2 GB of RAM
- GPU: Proxy Only Intel 950 or greater 18, 25, 35, 50 Mbps same GPU requirements as FCP

Content Creation Marketing

## V1.6 for XDCAM HD422

POP (Product Overview Publi					
Since its launch Sony XDCAM system combination of file-based operation, camcorder technology has opened up production facilities around the world	optical recording and Sor new ways of working to I	ny's industry-leading			
The V1.6 firmware upgrade offers a r and a range of new options to ensure based production. Version 1.6 is rea changes or modifications of hardware installed.	XDCAM continues to lead lized by firmware upgrad	d the industry in file le without having any n 1.2 must already be			
Market		Application			
New & existing XDCAM customers.			00 & PDW-F800 camcorders & 600 decks, PDW-HR1 Field		
List Price	Availability	Contract category	Predecessor		
FOC	Now Shipping		V1.2 or V1.5		
Camcorder (PDW-700 & PDW-F800)	Top Features of V1		k PDW-HD1500 & PDW-F1600		
<ul> <li>Scene File Indication in Viewfind Indication of Scene File Selection powering. To be shown instead indication</li> </ul>	n after re-	<ul> <li>Live logging &amp; Closed Caption support</li> <li>Linear Edit on HD422 clips which are made (encoded) by PC NLEs</li> </ul>			
• Capturing at 23.98p and recording format is available for SD signal	ıg in 59.94i	<ul> <li>Additional HTTP download from XDCAM web</li> <li>Speed Improvement of F.FWD/ F.REV</li> <li>VAR Repeat Playback for Sub-playout during sports</li> </ul>			
<ul> <li>Indication of Clip Name including and Clip Title on VF and LCD. LC area of "Title" or "Title2" as current</li> </ul>	CD it is on the	or live. Controllable from 9 pin controller like RM-280 or DTR-3000			
Indication of System Frequency S	Setting when		Field Station PDW-HR1		
Shooting in Slow & Quick Mode. Ver.1.6 with "formatFps" and " ca	Clip Properties in	Voice Over function	will be available in Oct. 2010		
<ul> <li>Analog Audio Signal Recording w Selection. XLR rear connector, s WRR/DWR input can be selected the disc with the SDI video signal</li> </ul>	shotgun, or & recorded on	version is provided in of PDW-HR1's firmwa	. Until this timing, a trial n FOC basis in the version 1.6 nre. This is in order to expand CAM field applications.		

The new XDCAM Browser software will cover the functions of the 4 application models currently available to XDCAM users in one package.

It will combine the features and benefits of Clip Browser, PDZ-1, XDCAM Viewer and XDCAM Transfer single software offering making customer workflow simpler, easier and more efficient.

There will be no limitations in XDCAM/EX interoperability as HD/SD, MP4/MXF, and Windows/Mac will all be supported. A Software Development Kit (SDK) will also be launched for 3<sup>rd</sup> party vendors and developers. Market

#### **XDCAM Professional Disc & EX customers**

List Price	Availabil	ity	Contract category		Predecessor
Free Download in Public Domain	Septemb	or 2010	Free Download in	Public	PDZ-1, XDCAM Transfer, XDCAM
plus chargeable options	Septemb		Domain		Viewer & Clip Browser
Feature		Advantage		Benefit	
Proxy Browsing				Quick viewing of the content stored on disc	
Edit List Creation		Clips can have In/Out points set and grouped together then stored on the disc		Quick gene	ration of play out lists
Metadata Editing		Essence Marks and Textual Descriptions to enhanced clip information		Searching a becomes qu	nd Editing content uicker
High Resolution Video Ingest and Export		High Resolution Video can be transferred from the Professional Disc to hard drive and vica versa.			n be stored on the or networked servers e users.
Disc Copying		Multiple Copies of Discs			n be archived and/or to alternate locations.

Application

and the PDW-U1 Drive

#### Positioning for NAB announcement

- R&D display
- Plan to show 'alpha' version with new GUI
- SDK also introduced in PPT presentation

#### NEW: XDCAM Browser



Browsing Software for XDCAM Cameras, Decks

The following list is the current software versions for XDCAM at time of printing.



#### PDZ-1 v2.70

- Support for Live Logging of HD material
- Support Microsoft Windows Vista 64bit
- Support Microsoft Windows 7 32bit/64bit
- FAM Driver v2.30 is bundled with PDZ-1 v2.70 Installer

#### XDCAM Transfer v2.12.0 (including FAM v2.3 for the Mac)

- Support for Mac OS X 10.6 of Professional Disc material
- Support for Mac FAM Driver v2.3
- Support for XDCAM HD422 series v1.6

#### FAM Driver v2.30 for the Mac adds and includes the following items

- Support for Mac OS X 10.6 32bit and 64bit
- Support for Voice-over recorded Disc

Note: In PDZK-P1 (XDCAM Transfer), the use and reference of Voice-over material is not possible.

#### PDZ-VX10 v2.3 (updated version)

This has been updated to include installations for the following:

- Microsoft Windows Vista 64bit
- Microsoft Windows 7 32bit and 64bit
  - Note: In 64bit, Shell Extension does not work.

#### FAM v2.3

- Support for Microsoft Windows 7 32bit and 64bit
- Support for Voice-over recorded Disc
  - Note: In PDZ-1, reference, playback and editing of Voice-over material is not possible.
- Integration of installer

#### VFAM 2.3.0

- Offers Window 7 32bit and 64bit support to the PDW-U1
- Snow Leopard 32bit support, 64bit support should be available in June 2010

XDCAM EX	
Key Messages	<ul> <li>The XDCAM EX range has expanded again since NAB 09 with the successful launch of the full shoulder 2/3-inch PMW-350 Camcorder and the updated PMW-EX1R.</li> </ul>
	• This years Show will feature yet another expansion of the line up with the launch of the full shoulder ½-inch PMW-320 Camcorder and low cost studio system offering new options and solutions to a wider customer base.
	• The range is expanding not only with new models but also with new choice of recording media including low cost SxS-1 and use of consumer SDHC & Memory Stick media via MEAD adaptors.
	• Version 2.6 of Clip Browser will be shown with support for SD workflows & Snow Leopard and Windows 7 OS.
Comments	• XDCAM EX is a KEY STRATEGIC family of products for Sony. It is important we continue to focus strong sales effort on this line up.
	• XDCAM EX has now become the dominant solid-state format of choice for a wide range of customers from videographers to broadcasters all sold on the outstanding picture performance and efficient workflow.
	<ul> <li>NAB 2010 demonstrates continuing commitment to meeting customers needs by providing XDCAM EX products for their requirements.</li> </ul>
	• By launching a new low cost HD/SD studio system for the PMW-EX3 and 320/350 Sony will be able to offer for the first time an entry level studio solution for corporate, education and entry level broadcast applications

Content Creation Marketing POP (Product Overview PL The PMW-EX1R is the successor to capabilities of the XDCAM EX fam Recording, Picture Inversion and a Sony's XDCAM EX professional pro- performance of SxS memory cards the only Full HD resolution sensor imaging system consists of three a pixel count of 1920x1080, to proc- purpose-built Fujinon Professional mechanism. The EX1R supports multiple frame 25P as well as being 1080i/720P s mode, 25Mb/s HDV 1080i compati- recording. Twin memory card slot	the multiple award-wi ily with great new feature a host of additional refi- duct range is designed s. It combines a proven system available in a c ½-inch type Exmor™ CM uce images in full HD r I HD 14x zoom lens and e rate recording such as witchable. There is also ble mode and 25Mb/s S	ures such as D inements. to exploit the , non-linear XI compact camo lOS sensors, ea esolution. In a l a unique dual 5 59.94i, 50i, a o a choice of a Standard Defin	further ext /CAM record DCAM workf order. This ach with an ddition, the focus ring nd native 2 35Mb/s Hig ition DVCAM	ding, Cache gh low with advanced effective ere's a 3.98P and gh Quality A	PMW-EX1R
32GB SxS PRO memory cards. Market			Applicatio	-	
Broadcast, General Production, C Education, Budget Movie-Making	orporate, Event Videog	rapher,		ction, Event I	Production, Live
List Price	Availability	Contra	ct category		Predecessor
Euros T2 6,664.63	Now	PAV			PMW-EX1R
Feature 1/2-inch Exmor CMOS sensor.	Advantage Full 1920 x 1080 HD Outstanding low-ligh and sensitivity (F10) S/N ratio of 54dB.	it performance	e (1lux)	fantastic, s	ormance ratio is imply the best picture iny compact
14x Fixed Fujinon Zoom Lens.	HD Lens. Individual Focus, Zoo Full Manual, Manual				y picture reproduction.
Creative shooting modes.	CineAlta Modes - 24 Multiple Frame Rate Picture Profiles.	).		makers as a productions shoots). Fle	or budget movie- a B-camera for larger s (eg. HDW-F900R exible camera able to f in-camera on.
Solid State Recording.	SxS PRO offers long i on 2 x 16GB cards. No mecha-deck.	recording time	s of 140	harsh envir Maintenanc significantl	dia, can be used in onments. ee costs reduced y.
MPEG HD/DVCAM Recording.	Efficient codec offer 25mbps/35mbps swi DVCAM recording ca	tchable. Now v		vendors. Sp time in the Low cost ar efficient co	chiving due to
Competition	Street Price (public			values of Son	
<ul><li>JVC GY-HM700E</li><li>Panasonic AG-HPX171E</li></ul>	€6124.51 Euros €4047.15 Euros		compare Larger 1 Better L	ed to FULL 19 /2inch Exmo ow Light Sen	
			CMOS pr Efficient	ocessor. Codec, long	er recording on SxS. Id PCMCIA media

Content Creation Marketing

POP (Product Overview Publication)

#### XDC/M EX

Offering all the great features of the PMW-EX1 and more! The PMW-EX3 camera is focused on gaining market share from the traditional interchangeable lens semi-shoulder camera manufacturers, offering true low-cost Studio Camera functionality for the first time. The new camcorder will be of interest to existing broadcast users along with a variety of Natural History and Film-makers for whom the ability of changing lenses is a very important feature. This camera will also be of interest to customers looking for a low-cost full HD Studio/Live Event camera.

Market Application Broadcast, General Production, Corporate, Event Videographer, TV Production, Event Production, Live Studio, Education, Budget Movie-Making. Film, 3D production for the above. List Price Availability Contract category Predecessor PAV Euros T2 8073.57 Now N/A Advantage Feature Benefit Full 1920 x 1080 HD Sensor. Price/performance ratio is fantastic, Outstanding low-light 1/2-inch Exmor CMOS sensor. performance (1lux) and simply the best picture quality of any sensitivity (F10). compact camcorder. S/N ratio of 54dB. HD Lens. High quality picture reproduction. Individual Focus, Zoom & Iris Can utilise other 1/2inch or 2/3<sup>rd</sup> inch 14 x Interchageable Fujinon Zoom Lens. rinas. lens or stills lenses / digital cinema Full Manual, Manual or Auto lenses. operation. Excellent for budget movie-makers as a CineAlta Modes - 24p. B-camera for larger productions (eq. Multiple Frame Rate selectable HDW-F900R shoots). Flexible camera Creative shooting modes. from 1-60p. able to offer lots of in-camera Picture Profiles. manipulation. Re-useable media. SxS PRO offers long recording Robust media, can be used in harsh times of 140mins on 2 x 16GB Solid State Recording. environments. cards. Maintenance costs reduced No mecha-deck. significantly Interoperable with all main NLE Efficient codec offering high vendors. picture quality via efficient MPEG HD Recording. Speedy ingest to save time in the edit. codec, 25mbps/35mbps Low cost archiving due to efficient switchable. codec. Street Price (public list Competition Top 3 values of Sony price) JVC GY-HM700E €6124.51 • 1280x720 1/3<sup>rd</sup> inch CCD in the JVC compared to FULL 1920x1080 in EX3. Larger 1/2inch Exmor sensor. • Better Low Light Sensitivity. €8393.99 Panasonic AG-HPX301E EX has a 1/2inch FULL raster 1920x1080 CMOS processor. Efficient Codec, longer recording on . SxS. • Modern Media, not old PCMCIA media.



The PMW-350 is a shoulder mount XDCAM EX camcorder with cutting edge new three 2/3 inch-type Exmor full-HD CMOS sensors. The PMW-350K comes with a 16x zoom HD lens (available without lens as the PMW-350L) and offers all the creative recording features of the PMW-EX1R, plus extras such as a Scene File System and 4 channel audio.

The 350's chassis is based on the PDW-700, but weighs just 3.2kg - one of the lightest shoulder camcorders in its class. Exceptionally low power consumption makes it environmentally friendly.

Supports multiple frame rate recording such as 59.94i, 50i, and native 23.98P and 25P as well as being 1080i/720P switchable. There is also a choice of a 35Mb/s HQ mode, 25Mb/s HDV 1080i compatible mode and optional 25Mb/s DVCAM recording. Twin memory card slots give up to 280 minutes HD recording using two 32GB SxS memory cards.

Market		Application			
<ul> <li>Regional TV, Small Product Videography, Corporate, Fr</li> <li>DSR-300/400/500 operators</li> </ul>		Customers who want full-shoulder-operation and who want to move file-based and HD			
List Price Euros T2	Availability	Contract catego	ory	Predecessor	
PMW-350L €16,849.00 PMW-350K €18,777.50	Now	PAV		N/A	
Feature	Advantage		Benefit		
Three 2/3-inch Exmor CMOS sensor.	Full 1920 x 1080 HD Senso low-light performance (11 sensitivity (F13). S/N ratio	ux) and	HD resolu sensors c shallower	picture performance with full- ution. 2/3-inch-type image an capture images with a r depth of field, giving users edom of creative expression.	
16 x Interchangeable Fujinon Zoom Lens supplied with K package	HD Lens. Auto Focus and ALAC are s Standard 2/3-inch Lenses market can be attached.	available in the	Can utilis	High quality picture reproduction. Can utilise any standard 2/3rd inch lens and digital cinema lenses with converter.	
Selectable Recording     Modes including DVCAM	Choice of bit rates - eithe mode) or 25 Mb/s (SP mod supports 1920 x 1080, 144 1280 x 720 resolutions. 25 recording in PAL or NTSC	de). HQ mode 0 x 1080 and Mb/s DVCAM	EX, HDV a infrastruc	integration into existing XDCAM and DVCAM workflows and ctures - offering ultimate y worldwide.	
Solid State Recording.	SxS PRO offers long record 140mins on 2 x 16GB cards No mecha-deck.		used in h Maintena	le media. Robust media, can be arsh environments. nce costs reduced significantly.	
MPEG HD Recording.	Efficient codec offering hi quality via efficient codec 25mbps/35mbps switchab	2,	Speedy in	able with all main NLE vendors. ngest to save time in the edit. archiving due to efficient	
Competition	Street Price (public list price)		Top 3 value		
Panasonic AG-HPX500E	€10,404 without lens		( has a 2/3ii ocessor.	nch FULL raster 1920x1080 CMOS	
		• St	perior reso	lution & sensitivity. ec, longer recording on SxS.	







Content Creation Marketing <b>POP</b> (Product Overview Publication) Many XDCAM EX users have requested a step up from the PMW-EX3. These custo configurations.	full shoulder-type XDCAM EX ca	amcor		NEW: PMW-320
There is a clear opportunity to offer a lo camcorder offering better picture quali- camcorders. The PMW-320 shares many	ty than current 1/3rd inch shou	ulder		
Two packages will be available:				
K package: With Fujinon Lens. L package: Without Lens.				
Market		Арр	lication	
Regional TV, Small Production, Educatic Corporate, Freelance market. DSR-300 operators, who want to move f			conscious ulder-opera	customers who want full- ation.
the PMW-350 is too expensive. List Price Euros T2	vailability		tract	Predecessor
PMW/-3201 10 500	ugust 2010	cate PAV	egory	N/A
PIVIVV-320K 12,000				N/ A
<ul> <li>• 1/2-inch Exmor CMOS sensor.</li> </ul>	Advantage Full 1920 x 1080 HD Sensor. Outstanding low-light performance (1lux) and sensitivity (F11). S/N ratio of 54dB.		perfect for	ormance ratio is fantastic, cost conscious customers who houlder mount camcorder.
<ul> <li>16 x Interchageable Fujinon Zoom Lens supplied with K package</li> </ul>	HD Lens. Auto Focus and ALAC are supported. Standard ½-inch Lenses available in the market can b attached.	(	Can utilise	y picture reproduction. other 1/2inch or 2/3 <sup>rd</sup> inch s lenses / digital cinema
Creative shooting modes.	CineAlta Modes - 24p. Multiple Frame Rate selectable from 1-60p. Picture Profiles.		3-camera f HDW-F900F to offer lot	or budget movie-makers as a for larger productions (eg. & shoots). Flexible camera able s of in-camera manipulation.
Solid State Recording.	SxS PRO offers long recording times of 140mins on 2 x 166 cards. No mecha-deck.	B I	environmer	dia, can be used in harsh
MPEG HD Recording.	Efficient codec offering high picture quality via efficient codec, 25mbps/35mbps switchable.		Speedy ing	ole with all main NLE vendors. est to save time in the edit. rchiving due to efficient codec.
Competition	Street Price (public list price)		Fop 3 value	es of Sony
Panasonic AG-HPX500E	€10,404 without lens		Superio	r resolution & sensitivity. It Codec, longer recording on
Panasonic AG-HPX301E	7900.00 Euros		1920x10 Efficien SxS.	a 1/2inch FULL raster 080 CMOS processor. It Codec, longer recording on Media, not old PCMCIA media.

HDV	
Key Messages	<ul> <li>The HVR-Z5E uses the same 3 x 1/3 inch Exmor CMOS sensors with ClearVid array as the HVR-Z7E but with a fixed 20x zoom lens. The HVR-Z5E offers enhanced picture quality and features over the HVR-Z1E and DSR-PD170P. The HVR-Z5E has already been adopted by a wide range of customers in EMEA.</li> <li>Existing line up continues with a widest HDV line up of any manufacturer, from HVR-HD1000E to HVR-S270E only Sony offers such a wide range for any budget / application.</li> <li>Hybrid Workflow with HVR-MRC1K Memory Recording Unit is a success and is well understood by customers looking to utilise tape-based products with CF/HDD recorders.</li> <li>What is 'Hybrid'? This represents the flexible acquisition workflows offered by the HDV line-up with respect to recording SD or HD on a variety of different media including tape, Compact Flash and HDD. This then offers instant archive on tape and a fast ingest into your NLE with CF or HDD. The HDV range offers customers reassurance to purchase product today, safe in the knowledge the investment will be future-proof.</li> </ul>
Comments	<ul> <li>New product developments have pushed the boundary for HDV acquisition offering superior picture quality and new SD/HD workflows for existing tape based customers to take their first opportunity to shoot with Solid State technology.</li> <li>Sony has the widest and most flexible line up of HDV products on the market meeting many requests from customers. Interchangeable lens models have already been adopted by a whole new set of customers, existing customers can now benefit from improved picture performance and features on a fixed lens compact camcorder; the HVR-Z5E.</li> </ul>

Content Creation Marketing

HVR-Z5E

POP (Product Overview Public Introduced at IBC 2008, the HVR-Z5E The HVR-Z5E is designed to enhance optical and audio quality. Developed Z5E offers the form-factor of the HV from the front-end lens through to the memory recorder. Offering outstandic camcorder has already staked its clain many different applications. A claim Market Broadcast, General Production, News Event Videographer, Education, Budg List Price	is the net creativit with a h R-Z1E, bu ne rear m ing pictur im as the that is in s, Docum	ew compact profe y and deliver the igh level of custo ut with enhanced nemory adaptor n re quality and hyl e de facto standar ncreasingly difficu entary, Corporato	highest s mer feed features hount for orid workf rd compac ult to atta	tandard o back, the and innov the option flow, the ct camcor ain! Application	of HVR- vation nal der in n tion, Eve		roduction, Film Predecessor
Euros T2 5040.00	Now	anty	VAV	t category	9		N/A
Euros T1 4480.00	Now		0,110				
Feature 3 x 1/3inch Exmor Sensors with Clean array	rVid	Advantage High resolution High sensitivity Wide dynamic r Excellent colou	, ange,	iction.	offering Vital for control	cust light	price/performance tomers who cannot . Shots in darker ill be usuable.
Sony's newly developed 'G' Lens		Separate Focus rings. Fast Operation Lens. 28.5mm Wide A	and 20x Z	Zoom	Professio Wide an Flexible	onal gle c lens	lens features. of view. s.
HYBRID Solution for Media, Format & Workflow		Dual media, Ta	pe and CF	₹.	cost inte fast inge products Futurepi	ercha est ir s. roof on wł	tant archiving and low- angeable media, CF for n to a whole host of NLE operation. Tape today, nen you want to move
Native Progressive Scan		Offers 25p film cinematic look.			be used	for a	ility for production, can a variety of applications ogressive acquisition.
New Audio Features		Internal mic ca recorded as CH recording CH2 I	1 whilst EXT mic.		Audio re use.	ecord	ling flexibility, ease of
Competition		Street Price (pu price)	IDIIC IIST	Тор 3	values o	f Sor	Ŋ
<ul> <li>JVC GY-HM700E</li> <li>Panasonic AG-HPX171</li> </ul>		6124.51 Euros 4077.15 Euros		Se th Be Hy F Hi Se th Be	nsor with an pixel s etter Low /brid wor gh pictur nsor with an pixel s etter Low	n Cle shift v Ligh <u>v Kflov</u> re qu n Cle shift v Ligh	nt Sensitivity. w, Tape/CF, SD/HD. ality 960x1080 Exmor arVid array, much better

NXCAM/AVCHD	
Key Messages	<ul> <li>NXCAM has been successful since it's launch in January 2010 gaining an excellent reputation</li> <li>NXCAM represents Sony's Professional AVCHD implementation with linear PCM recording, timecode functions and hybrid memory recording features.</li> <li>The HXR-NX5E offers existing professional HDV/DVCAM users a migration to file based HD/SD acquisition.</li> <li>This includes all the great features of the HVR-Z5E with the Sony 'G' lens and 1/3-inch Exmor Sensor. This offers outstanding low-light capability and picture resolution.</li> </ul>
Comments	<ul> <li>The HXR-MC50E launched at NAB 2010 is not an NXCAM product as it does not feature linear PCM recording and timecode functions</li> <li>Sony will continue to develop AVCHD professional products under its NXCAM brand although there are no specific announcements at NAB 2010</li> </ul>

Market

### POP (Product Overview Publication)

Sony's first professional AVCHD camcorder redefines the performance and features expected of this product class. It records stunning quality 1920 x 1080 images at 24Mbps (50i or 25p), as well as supporting 720/50p and Standard Definition recording. Sony's "G Lens" and Exmor<sup>™</sup> technology provide excellent resolution, colour and contrast, as well as exceptional low-light sensitivity.

Operational flexibility is maximised by AVCHD recording onto affordable and readily available consumer memory cards. Using two 32GB cards, the NX5 can record six hours of HD footage which can be further extended by simply swapping cards. Simultaneous HYBRID HD and/or SD recording is supported via a unique, optional 128GB Flash Memory Unit (HXR-FMU128) which offers 11 hours HD recording time at 24Mbps. The NX5E is the first camcorder of its class to feature a built-in GPS locator, high quality Linear PCM audio recording and new Active SteadyShot stabilisation technology.

Broadcast, General Production, News, Documentary, Corporate, Event Videographer, Education, Budget Movie-Making			TV Production, Event Production, Film			
List Price	Availability	Contra	ct categor	ry Predecessor		
Euros T2 4558.00	Now	VAV		N/A		
Feature	Advantage			Benefit		
3 x 1/3inch Exmor Sensors with ClearVid array	High resolution, High sense Wide dynamic range, Exc reproduction.	ellent col	Outstanding price/performance offering. Vital for customers who cannot control light. Shots in darker situations will be usable.			
Sony's newly developed 'G' Lens	Separate Focus, Zoom an Fast Operation and 20x Z 29.5mm Wide Angle Lens	oom Lens		Professional lens features. Wide angle of view. Flexible lens.		
Simultaneous recording onto memory card and Flash Memory	The 128-GB optional HXR-FMU128 provides continuous recording for approx 11 hours in the highest FX 24-Mbps mode (21-MbpsMemory St interchang for extend			Memory Stick or SDHC for low-cost interchangeable media. Flash media for extended recording time and fast ingest into IT workflow.		
Active SteadyShot technology	Provides superior stabilisation - reducing hand-held camera shake			Improved stabilisation allows the user to concentrate more on composition and shot transition, rather than worrying about how to stabilise the camera.		
Loss-less Audio Recording	Provides a choice of two formats; Dolby Digital ste stereo			Capable of capturing uncompressed, CD quality audio data		
Competition	Street Price (public list price)	Тор	3 values o	f Sony		
Panasonic AG-HMC151	3513.24 Euros	• B • S	ClearVid array, much better than pixel shift.			
Panasonic AG-HPX171	4006.79 Euros	<ul> <li>High picture quality 960x1080 Exmor Sensor with ClearVid array, much better than pixel shift.</li> <li>Better Low Light Sensitivity.</li> <li>Simultaneous recording onto memory card and Flash Memory</li> </ul>				

Application





## POP (Product Overview Publication)

Many customers require a file-based ultra compact camcorder at an affordable price point, often this type of camcorder is used by operators that are not craft camera operators. These customers mainly shoot in auto mode and often use this type of product for training basic camcorder skills before moving on to more manual camcorders.

This type of camcorder may be used to record covertly in politically/emotionally sensitive areas where a more 'consumer' look is an advantage and a lower weight and size allows the user to operate for extended periods of time.

The HXR-MC50E features a high resolution Exmor R<sup>™</sup> CMOS Sensor. This new Sensor developed by Sony captures amazing, detail-packed Full HD video and still images with superb contrast, rich colours, excellent low-light performance and less picture noise. The HXR-MC50E is equipped with Optical SteadyShot Active Mode anti-shake technology which means you can capture steady, smooth, high-quality video with your camcorder, even when moving or zooming in or out.

This product is an entry-level product similar to the HXR-MC1P minicam and does not fulfill the NXCAM criteria so will be marketed using the AVCHD logo.

Market	Application
	Documentary / Video Diary Use
Broadcast, Production, Education, Event	'Back-up' Camcorder for Freelancer
Videography, Corporate, Freelance market,	Underwater / In-Car Use.
Police/Military	Corporate Use - Training DVD's, Role-Plays, Web-casts etc
	Police / Military use - Covert recording, evidence gathering etc.
	Education use - Training students in basic filming techniques

List Price	Availability	Contract category		Predecessor	
1,400 Euros T2	1,400 Euros T2 July 2010 VAV			N/A	
Feature	Advantage		Benefit		
<ul> <li>Professional design</li> <li>Supplied with professional accessories including a large Lens Hood, an ECM Shotgun Microphone with holder and a high capacity battery</li> </ul>			Ideally suited to the specific needs and applications of the professional user, giving extended recording time, high quality audio and greater picture quality.		
Professional Support	Supplied with a 2 PrimeSupport ag		Offers peace of mind and professional back up should anything go wrong with the camcorder		
1/2.88" Back-Illuminated     "Exmor R" CMOS Sensor	Amazing sensitiv decreasing noise	ity in low-light (3 Lux) drastically	Offers extended shooting periods and better picture reproduction in low-light conditions.		
Wide Angle G-Lens	29.8mm wide for situations	r shooting in tight	Lighter shooting, more flexible shooting in changing environments		
Optical SteadyShot Image Stabilization with Active Mode	nage Reduces camera shake as well as reducing circular or rolling motion		external stal by untrained	nd-held shooting, with no bilisation needed. ideal for use d operators and for y / video journalism	
Competition	Street Price (put	olic list price)	Top 3 values	s of Sony	
• JVC GY-HM100	2734.97 Euros *All Pricing from www.creativevic February 2010		<ul> <li>Price</li> <li>Picture q</li> <li>Portabili</li> </ul>	quality	
Panasonix AG-HMC41	2298.79 Euros *All Pricing from www.creativevic February 2010	<u>leo.co.uk</u> - 3rd	<ul> <li>Price</li> <li>Picture q</li> <li>Portabili</li> </ul>	<b>3</b>	





Key Messages	<ul> <li>Total Live Production Chain suitable for 3D production</li> <li>Part of the Sony complete lens to living room solution</li> <li><i>New</i> Purpose built 3D stereo image processor for 3D images (MPE-200)</li> <li>FIFA World cup will be filmed in 3D using complete Sony production chain</li> <li>We have delivered world's first purpose built 3D OB Vehicle for use in Sky 3D football coverage</li> <li>Specific Training and consultancy also available</li> </ul>
Comments	<ul> <li>Many existing products suitable or can be upgraded for 3D operation</li> <li><i>New</i> HDC-P1 camera suitable for 3D camera rig</li> <li>MVS-8000G Software for 3D image processing</li> <li>Dual stream recording on HDCAM SRW-5800</li> <li><i>New</i> 24" and 42" Professional Monitors</li> </ul>

POP (Product Overview Publication The MPE-200 cell based processor unit togeth	ner with the MPES			
image processor software provides 3D conter align a pair of cameras used for 3D production		tem to elec	tronically	
Market		Applicatio	n	
Any HD OB vehicle or studio looking at 3D pro	oduction	Any 3D pro	oduction	
List Price	Availability	Contract of	category	Predecessor
MPE-200 - 24,000 Euro T1 MPES-3D01/01 - 14,000 Euro T1	Now Now	HDB HDB		None None
Feature	Advantage		Benefit	
• 3D camera alignment	No need to use cumbersome se mechanical 3D	ervo	Far more so and cost	uitable for OB use. Saves time
Comprehensive technical monitoring	Provides opera detailed 3D inf	ormation	Easy to adj	ust picture for optimum 3D
Remote camera convergence control	Camera rig pos be remotely ad optimise 3D im	ljusted to	Ease of adj depth	ustment to give optimum 3D
<ul> <li>Control 3 boxes from single operational position</li> </ul>	A single operat monitor and co stereo camera	ntrol 3		flow improvement and operational space
<ul> <li>Ability to read lens focal length data from camera system</li> </ul>	Automatically a image compens according to zo amount	sation		two separate images in ation throughout zoom range
<ul> <li>Image Flip and Flop to cope with inversions introduced in camera rig</li> </ul>	No need for ad processing unit	S	All in one s	olution
Competition	Street Price (p	ublic list	Top 3 value	es of Sony
• JVC IF 2D3D1	price) 33,000 Euros		No align	nment control s 2D - 3D conversion only

Content Creation Marketing

NEW: MPE-200

## Systems Cameras

**Key Messages** 

- 12,000 HD 2/3" Cameras sold worldwide
  - o Incl. 8,000 HDC-1500/1500R series
  - o Incl. 1,500 HSC/HXC series
- Introduce 3G transmission kit for HDC-1000/1000R/1500/1500R
- Replacement all control panel line-up

   MSU-1500 and RCP-1500 Series
- Introduce 5inch colour LCD viewfinder for both HD and DXC camera
  - o HDVF-C550W
  - o DXF-C50W

## POP (Product Overview Publication)

Sony introduced the HDC-1500 series for our flagship top-quality HD studio and OB operation camera system 3 years ago. Since then, the sales has been getting increased and we have established a firm position in the market. To strengthen the product range against competition, a new Type-R series is introduced. By incorporating new CCD and new DSP LSI, higher S/N ratio and new functionality is added to current HDC series. This improvement should be key feature set for high end HD studio and OB Van demand.



Market All HD OB truck and studios		Application For shooting sports events / shooting productions				
List Price	Availability	Contract c	ategory	Predecessor		
54,050 Euros T2 (HDC-1500R/1550R) 37,250 Euros T2 (HDC-1400R/1450R)	Now	HDB		HDC- 1500/1550/1400/1450		
Feature	Advantage		Benefit			
Improved Signal to Noise (S/N) ratio	sensitive CCD	sensitive CCD provides 20B S/N       a         ration improvement on current       model.         The assist functions for easier       focusing on the viewfinder are         newly added to HDC-1500R       a		ec. of S/N ratio, and 64 dB with Noise on function		
Focus Assist Function	focusing on th			ist Indicator (FAI) and peaking signal help to cus.		
Automatic Imaging Optimizer	analyzes parti the lens and c blurred colour the lens chara	The processor automatically analyzes particular criteria of the lens and compensates blurred colour images based on the lens characteristics as well- known lens chromatic		Compensate this lens chromatic aberration, which has never been easy before. This beneficial feature allows the Type-R to achieve perfection in image formation to satisfy demanding professional users.		
3G Upgradable		th migration kit	Customer camera.	don't need purchase new		
Flexible System Configuration	compatible wi MSUs, CNUs an capable sophi adaptor HDLA	The HDC-1500R series is fully compatible with current Sony MSUs, CNUs and RCPs. And also capable sophisticated large lens adaptor HDLA.		e completely same with current Sony system nd also capable Sony LED VF, HDVF-EL100 with		
Competition		oublic list price)		ues of Sony		
Thomson LDK-8000 Elite	Around 60K Eu	Around 60K Euros (system)		better sensitivity performance r features		
Thomson LDK-4000 Elite	Around 45K Eu	uros (system)	Afford	r sensitivity lable price r features		
<ul><li>Ikegami HDK-79EX3</li><li>Panasonic AK-HC3500</li><li>Hitachi SK-HD1000</li></ul>			• 720p d	lable Price capability I Triax		

#### HDC-1500R/1550R/ 1400R/1450R

## NEW: 3G Upgrade kit for HDC-1000/1000R/1500/1500R



Model Name	Descriptions	Pricing (T2)	Availabilities
HKC-HB10	3G Fibre Transmission Unit for HDC-1000/1000R	€13,500.00	B/May/2010
HKC-HB10	3G Fibre Transmission Unit for HDC-1500/1500R	€12,000.00	B/May/2010
HKCU-HB10	3G Fibre Transmission Unit for HDCU-1000	€11,500.00	B/May/2010
HKCU-HB15	3G Fibre Transmission Unit for HDCU-1500	€11,000.00	B/May/2010
HKCU-2005	Optional 3G Single Link Interface Unit	€4,500.00	B/May/2010

Market

#### HSC-300

### POP (Product Overview Publication)

The HSC-300 camera supports versatile applications for HD with a high-quality SD output. It uses the latest 14-bit A/D conversion circuit as well as the superb 2/3-inch Power HAD<sup>™</sup> FX CCD's to bring out high picture quality. Together with the highly compact 1.5 RU-size HSCU-300 Camera Control Unit, the HSC-300 camera offers a broad choice of system configurations including the MSU-950/900 Master Setup Unit. Thus, the HSC-300 can be used in a large-scale broadcasting system consisting of multiple cameras or as a simple studio system. The HSC-300 also offers large-lens operation in combination with Sony's HDLA-1500 Series Large Lens Adaptors, which are accepted worldwide for the operation with HDC Series cameras.



Market			Application			
Small OB truck and regional studio			For shooting studio and live events			
List Price	Availab	oility	Contract ca	itegory	Predecessor	
32,500 Euros T2 (HSC-300//U) 49,600 Euros T2 (HSC-300PK//U)	Now		PAV		New Line-up	
Feature		Advantage		Benefit		
Power HAD FX CCD		Due to Sony's advanced sensor technologies, the CCD imager offers a high sensitivity and good signal to noise ratios. Very high-quality digital Triax system that expands its operability in field applications, as well as for studio production.		Achieve -55dB S/N ratio on HD and -		
Digital Triax transmission Ve Tr its ap						
Large Lens Operation	Compatible th flexible Large Making the H most flexible camera in its		ens Adaptors C-300 the ortable ass.	<ul> <li>be used for ma applications ar</li> </ul>	otors allow the HSC-300 to r many different as and for users to choose am viewfinder for the	
Compatible current camera		The HSC-300 se compatible with Sony MSUs, CNU And provides co matching with o cameras	h current Js and RCPs. blour	the very basic	ility offer systems from to extremely large to be ne current BVP-E30	
Compact CCU		Together with t compact 1.5 RL 300 Camera Cor	J-size HSCU-	be used in a la	e and the HSC-300 can arge-scale broadcasting ing of multiple cameras studio system.	
Competition		Street Price (pu	ublic list	Top 3 values of So	ony	
Thomson LDK-4000 Elite		price) Around 45K Eur (system)	OS	<ul> <li>Better sensitiv</li> <li>Affordable pri</li> <li>Better feature</li> </ul>	vity ce	
Thomson LDK-400 (SD)				<ul> <li>Future proof</li> <li>Better Feature</li> </ul>		
<ul> <li>Ikegami HDK-79EX3</li> <li>Panasonic AK-HC3500</li> <li>Hitachi SK-HD1000</li> </ul>				<ul><li>Affordable Pri</li><li>720p capabilit</li><li>Digital Triax</li></ul>		

Application

Market

### POP (Product Overview Publication)

The HXC-100 camera supports versatile applications for HD with a high-quality SD output. It uses the latest 14-bit A/D conversion circuit as well as the superb 2/3-inch

Power HAD<sup>™</sup> FX CCDs to bring out high picture quality. Together with the highly compact 1.5 RU HXCU-100 Camera Control Unit and a remote control panel from Sony, the HXC-100 camera offers a fairly simple system.

With a variety of beneficial functions packed into the camera, such as its Focus Assist function, the HXC-100 provides genuine user-friendliness.

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	8

	Small regional studio or News studio	nall regional studio or News studio			For shooting studio and live events			
List Price		Availability	Contract c	ategory	Predecessor			
	20,000 Euros T2 (HXC-100//U) 29,500 Euros T2 (HXC-100PK//U) 36,500 Euros T2 (HXC-100CLK//U)	Now	PAV		New Line-up			
	Feature	Advantage		Benefit				
	Power HAD FX CCD	Due to Sony's advanced sensor technologies, the CCD imager offers a high sensitivity and good signal to noise ratios. Very high-quality digital Triax system that expands its operability in field applications, as well as for studio production.			high sensitivity B S/N ratio on HD and -63dB			
	Digital Triax transmission			This digital Triax system can be integrated into conventional Triax-based infrastructures, enabling an easy upgrad from existing systems				
		Dedicate image enhancing signal		For easier re	ecognition for focusing point			

Digital Triax transmission	in field applications, as well as for	infrastructures, enabling an easy upgrade		
	studio production.	from existing systems		
Highly sophisticated focus assist	Dedicate image enhancing signal can be added on viewfinder as "Viewfinder Detail" to recognize focusing point FAI (Focus Assist Indicator)	For easier recognition for focusing point for the camera man. This new function is newly approach to realize best focusing action among this category of cameras during live shooting occasion.		
functions	Indicate the bar for Focus Assist on the VF and show the focus point in a cursor by the bar length.	FAI (Focus Assist Indicator) may be helpful tool when it comes to focusing especially shooting at a wide-angle or dark area, at several occasion of production.		
High performance colour matching functions	Provide colour matching with current SD cameras such as DXC series with dedicated SD signal processing. Also a variety of colour adjustment functions.	Knee Saturation, Low Key Saturation, Multi Matrix, Hyper Gamma may provide "easy to match" capability and reproducing creative colour capabilities among several cameras.		
Compact CCU	Together with the highly compact 1.5 RU-size HXCU-100 Camera Control Unit	Save the space and the HSC-100 can be used in a large-scale broadcasting system consisting of multiple cameras or as a simple studio system.		
Competition	Street Price (public list price)	Top 3 values of Sony		
Thomson LDK-400 (SD)		<ul><li>Future proof</li><li>Better Feature</li></ul>		
Hitachi SK-900 (SD)		<ul><li>Future proof</li><li>Better Features</li></ul>		

Application

#### HDC-3300R

### POP (Product Overview Publication)

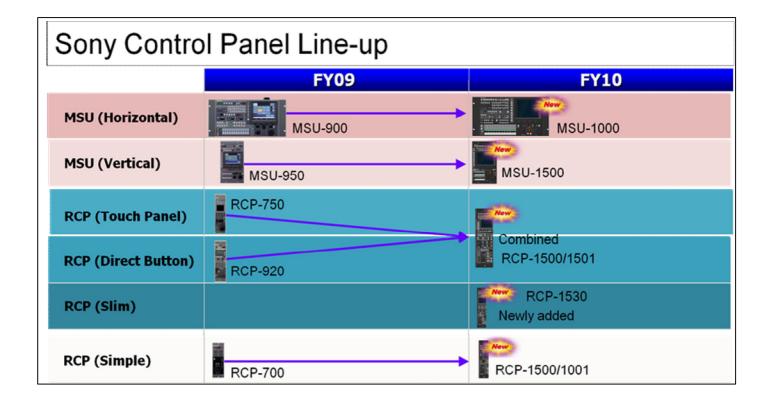
The HDC-3300 was developed to meet high speed shooting demand. Today, it has evolved into the HDC-3300R - a next-generation model with stunning picture quality by enhanced S/N ratio, state-of-the-art features, and new functions. Sony's cutting-edge technology enables the HDC-3300R to capture full-resolution 1920 x 1080 high-definition images at an amazing three times the normal frame rate (1080/150i or 720/150P). The HDC-3300R system is capable of transferring data at a rate of 10 Gb/s. This high transfer rate enables superb-quality uncompressed wideband signals to be transferred from the camera head to the HDCU-3300R Camera Control Unit over distances up to 2,500 meters (8,200 feet) Application



Market

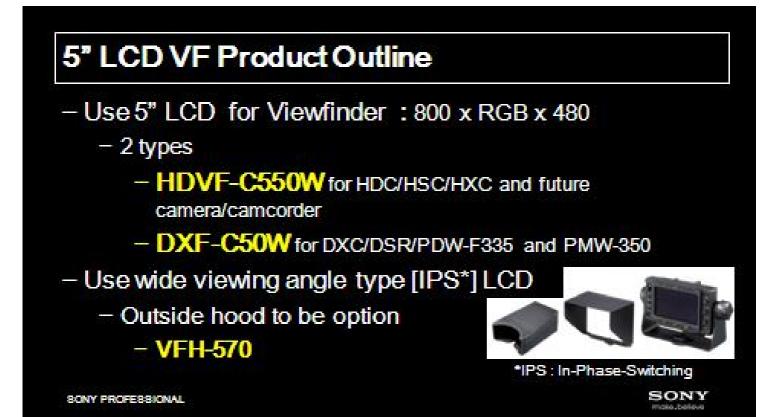
OB truck

OB truck	For shooting sports events				
List Price	Availab	ility	Contract o	category	Predecessor
112,600 Euros T2	Now		HDB		HDC-3300
Feature		Advantage		Benefit	
3 times shooting		Full HD resoluti	on	super slo motion	solution shooting for
Simultaneous output live and 3 times	image	Live (normal speed) Space save (Don't need to		o shoot the same ormal and high speed.	
High sensitivity		F9 Spec of sens	itivity	Good performance night time games	e to shoot, especially
Better signal to noise (S/N) ratio		-2dB becomes better than HDC-3300. Plus the camera has "Noise Suppression" function		-56dB spec. of S/N ratio, and achieve -64 dB with Noise Suppression	
Flexible System Configuration		The HDC-3300R fully compatible current Sony MS and RCPs and ca use the HDLA la adaptor.	series is e with SUs, CNUs an also Irge lens	with HDC-1500R s	etely same operation eries and also capable VF, HDVF-EL100 with
Competition		Street Price (pu price)	ıblic list	Top 3 values of	Sony
Thomson LDK-8300		Around 12K Eur	os (system)	3 times shoo • Simultaneous image	sensitivity (F9 vs F4 at ting) s output x3 and live to noise ratio.



Model Name	Descriptions	Pricing (T2)	Availabilities
RCP-1000	Simple Remote Control Panel (Joystick)	€3,000.00	B/May/2010
RCP-1001	Simple Remote Control Panel (Encoder)	€3,000.00	B/May/2010
RCP-1500	Standard Remote Control Panel (Joystick)	€4,250.00	B/May/2010
RCP-1501	Standard Remote Control Panel (Encoder)	€4,250.00	B/May/2010
RCP-1530	Slim Remote Control Panel (Joystick)	€4,250.00	B/May/2010
MSU-1000	Master Setup Unit (Horizontal)	€8,500.00	B/May/2010
MSU-1500	Master Setup Unit (Vertical)	€8,500.00	B/May/2010

## New: Viewfinders



Model Name	Descriptions	Pricing (T2)	Availabilities
HDVF-C550W	Colour LCD Viewfinder (5 inch) for HD camera	€4,800.00	B/May/2010
DXF-C50W	Colour LCD Viewfinder (5 inch) for DXC camera	€2,400.00	B/May/2010
VFH-570	Sports VF Hood for HDVF-C550W/DXF-C50W	€400.00	B/May/2010

## Multi-Purpose Cameras

## Key Messages

**Comments** 

- A range of mutipurpose remote cameras.
- Both SD and HD supported.
- Versatile output and connection options.
- High quality image sensors.
- Long distance fibre connection available.

# • The BRC range of remote cameras provide a different view point to the user

- These cameras can be mounted and used in areas that it would be difficult to use a conventional camera.
- The range is completely scalable and can range from single to multi-camera systems to long and short distance operation.

POP (Product Overview Publication)

BRC-Z330 Pan, Tilt & Zoom Camera

BRC-Z330
6
SONY
 HD -

Market			A	pplic	ation	
Broadcast, Commercial & Industrial			is		ical and remo	eal for locations where space ote camera operation is
List Price	Availab	ility	Contrac	ict ca	ategory	Predecessor
4800 Euros T2 (Tentative) TBA Euros T1	Now		CSY-MP	PC+-E	BRC+	Natural successor to the BRC-300
Feature		Advantage			Benefit	
SD/HD Switchable		Can be used in or HD mode	either SE		suite the pro	
18 x Optical Zoom		High powered optical zoom feature			Provides excellent zoom without a lens attachment.	
Visca & 422 control		Control options available to the user			Easy connection and control via optional control hardware.	
Silent/Smooth PTZ system		Provides smoot operation	h			user with very smooth ement and is ideal for quiet s.
Single CMOS Sensor		Low cost			CMOS sensor pictures at a	generates very high quality low cost.
Competition		Street Price (pu price)	ublic list		Top 3 values	of Sony
Panasonic AW-HE100E		6000 Euros			<ul><li> 18 x Zoor</li><li>Visca con</li><li>Better Pr</li></ul>	trol

## New: BRC-Z330 Options

## BRU-SF10 and optional products (TTL 5 products)

#### No.1



Model : BRU-SF10 HD optical multiplex unit (for BRC-Z330)

#### No.2



tentative image

Model: BRBK-HSD2

HD/SD-SDIoutput card



tentative image Model : BRBK-SA1

Analog SD output card





Model : BRBK-SF1 HD optical multiplex card (for BRC-Z330)



Model Name	Descriptions	Pricing (T2)	Availabilities
BRU-SF10	HD Optical Multiplex Unit for BRC-Z330	TBD	M/Aug/2010
BRBK-HSD2	HD/SD-SDI Output Card	TBD	M/Aug/2010
BRBK-SA1	Analogue SD Output Card	TBD	M/Aug/2010
BRBK-SF1	HD Optical Multiplex Card for BRC-Z330	TBD	M/Aug/2010
CCFC-S200	Optical Fibre Cable (Single Mode 200m)	TBD	M/Aug/2010

## Live Production Switchers

	<ul> <li>More than 2,100 MVS systems sold world wide.</li> <li>Sony announce the launch of the NEW high end 3G switcher – the MVS-8000X and a new mid range HD switcher – the DFS-900M. 3D Software features to be announced and shown for MVS range.</li> <li>Current Switcher range remains intact starting at BRS-200 through to MVS-8000X</li> <li>Single range of modular switchers for SD &amp; HD operations and for varied applications.</li> <li>Powerful Frame Memory system including embedded audio playback.</li> <li>Scalable options including DVE's, Frame Memory, Format Conversion, Device control &amp; System manager.</li> <li>2 functional MVS-8000X systems to be shown.</li> <li>3G switching will be shown together with 3D box all in 1080P. Switcher will be integrated with 3D camera set 2<sup>nd</sup> MVS-8000X system will be shown in 1080i mode with 5 M/E's and Multi Program 2. MVS-8000G system will be shown with V9 software and connected to a prototype "CG effector unit".</li> </ul>
Comments	<ul> <li>2 x MVS 8000X demo systems on stand</li> <li>1 x MVS-8000X processor shown on stage with stage presentation.</li> </ul>
	• 1 x MVS 6000 demo system on stand with V9 software
	• 1 x MVS-8000G with "CG effector" & V9 software
	<ul> <li>DFS-900M with 1M/E and 1,5M/E panels shown on stand</li> </ul>

#### NEW: MVS-8000X

### POP (Product Overview Publication)

The flagship MVS-8000X is a newly developed processor that is ideally suited to HD production whilst being upgradeable to 3G (1080P single link level B) by software only. Thanks to a completely new generation of processor, the MVS-8000X can handle more I/O than any other production switcher in the world - all in 3G for true 1080p performance. With 200 input connectors and 100 output connectors the MVS-8000X adds a new dimension to the world of production switchers. The MVS-8000X's new processing engine means more M/Es, more keyers and more features, so you can do much more on-board, all in 1080p, without having to tie-in external devices. The MVS-8000X is unique in that it is delivered as an HD ready system and does not need any upgrade or software options to operate in all the currently supported HD formats. The upgrade to 1080P is via a software licence that also enables the 3D functionality.



Market		Ар	plication			
From small to large production facilities.			Live & Post Production Video Switcher		ion Video Switcher	
List Price	Avai	lability	Cor	ntract category	Predecessor	
From 100k€ to 250k€ (dependant on configuration)	End	May 2010 HDB		θB	Addition to current MVS range.	
Feature		Advantage		Benefit		
Large input & output matrix		Caters for the largest productions.	of Single switcher can be used for m studios. Need for router minimised			
Single link 3G capable whilst being rea HD on delivery from factory	dy for			Upgrade to 3G time.	Upgrade to 3G by licence key at own time.	
Multi-Viewer outputs		Multiple views on a single screens		Allows the user to choose a variety of view options on one screen and this keeps the system cost low		
Floating ME		Allocate resource where it is needed		Enables more flexible use of ME & keyers Makes the system more powerful by adding keys		
8 keyers per ME		complex of productions			Minimises the use of extra ME banks & enables ease of use on large productions.	
Competition		Street Price (public list price)		Notes		
FOR-A HVS-5000		Not known		The only large production switcher that is 3G ready to date.		
GVG - Kayenne Ross - Vision Octane Snell - Kahuna		Not known		Ross is the only that claims to I frame is 3G rea be ready in Sep GVG and Snell	manufacturer in this list have a 3G switcher. The hdy but the electronics will	

POP (Product Overview Publication) The MVS-8000G is ideally suited to HD p configurations from 1 to 4 ME's accomm Sony's revolutionary modular control pa with customers able to configure and m Standard features include 4 powerful ke (resizer) and fully featured keyers and converters for both inputs and outputs, embedded audio, Up to 8 channels of in VTR's / servers and a choice of Auxilian is also supported and this will be shown Market From small to large production facilitie	production and is available in modating up to 80 inputs and anel is at the centre of our sy- naintain their switcher with g eyers per ME, each with their wipes on all ME's. Options in Integrated Frame Memory Sy- ntegrated 3D DME, Comprehe by panels. 3D functionality for at NAB 2010.	56 outputs vitcher sys reat ease. own DME clude form ystem supp nsive cont live prod	at oorting rol of uction	uction Video Switcher
List Price	Availability	Contrac	t category	y Predecessor
From 30k€ to 200k€ (dependant on configuration)	Current	HDB		DVS-7000 series (discontinued around 2002)
Feature	Advantage		Benefit	
User friendly operational style & Layou free Control Panel	Easy to use panel & r system with panel configured to users r budget.	nenu eeds /	stays high panel. Th high degr feedback by its flex	hal feedback and confidence in via uncluttered & responsive be Sony control panel offers a ee of easy to understand user and is made more powerful kibility and robustness.
Built in 2D resizer on every keyer* * not available on PP keyers -simple PP	Easy use of DVE effect	cts	External DVE not required - cost saving Part of ME memory - easy operational style	
Built in Format Convertors (Optional)	Seamless Up & Down conversion of HD & S material	D	Flexibility to use HD & SD material	
Swappable modules	Easy repair / mainte		Quick rep parts	air / replacement of critical
Editable Macros with a larger MACRO register to come	attach and edit			eration more efficient and
Competition	Street Price (public I price)	ist To	p 3 values	s of Sony
Thomson Grass Valley - Kayenne	Approx 200K€ dependent on configuration.	•	Chroma	nput / output matrix key on all ME keyers
Snell & Wilcox - Kahuna	Approx 100k€ for 2M with DVE (HD) Approx 161k€ for 3M with DVE (HD)	•	More outputs per ME (6) Superior Chroma Keyer (Frame based)	
• Ross - QMD - X	Not known	•	More pov options. configure Macros c	nput / output matrix werful & flexible output Clean feeds are easy to e on Sony. an be assigned in more areas greater use of editing.
New @ NAB 2010				
New @ NAB 2010         V9 software released         • 3D utility features         • Corner Pin for MVE-8000/ 9000         • Improved Directory features for FM.Official implementation of V8.10.2 with users guide.				

Content Creation Marketing

MVS-8000G

#### MVS-6000

### POP (Product Overview Publication)

The MVS-6000 is an affordable and highly featured vision switcher for SD or Multi format video switching. It can cater for production needs starting at 15 inputs / 24 outputs 1ME (Mix Effect Bus) up to 49 inputs / 24 outputs and 2.5ME. This is a new addition to the family of MVS-8000 & DVS-9000 switchers. The MVS-6000 utilizes the latest technologies such as a newly developed image processor, internal digital multi-effects (DME), clip transition effects, Side Flags, internal format convertor and multi-format operation, all packed into a compact frame. The MVS-6000 can also be upgraded to multi-format configurations by licence key. Customers can start with a standard-definition (SD) configuration and, with no change in hardware, easily upgrade to multi-format configurations according to their growing needs. The allnew CCP-6000 Series is an easy-to-use control panel that can be operated in combination with a standard VGA monitor and a mouse, which greatly expands operational flexibility. The CCP-6000 also includes the newly developed Multi-Function FlexiPad<sup>™</sup> module that further saves space whilst completing existing operational requirements.



	Small t	o Mid	sized	production	facilities.
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Market

Live & Post Production Video Switcher

Application

List Price	Availability	Contract c	ategory	Predecessor	
From 35k€ to 105k€ (dependant on configuration)	9 April 2009	HDB		New Model	
Feature	Advantage		Benefit		
Known Sony operational style	Minimal trainii	Minimal training required		avings. Confidence of high	
Built in 2.5D resizers	Easy use of DVI	Easy use of DVE effects		External DVE not required - cost saving Part of ME memory - easy operational style	
Compact control panel	Smaller real es requirement	Smaller real estate requirement		Cost reduction - less modules for same functionality & cost reduction - space saving	
Swappable modules	Easy repair / maintenance		Quick repair / re parts	eplacement of critical	
Compatible with MVS-8000	Make use of ex resources			Cost saving & compatibility with other equipment and operational philosophy.	
Competition	Street Price (p price)			Sony	
Thomson Grass Valley - Kayak	with DVE (HD)	Approx 120k€ for 3ME		re intuitive touch screen on all ME keyers 9 modular control panel	
Snell & Wilcox - Kahuna	Approx 100k€ with DVE (HD)	Approx 100k€ for 2ME		s per ME (6) oma Keyer (Frame based) eline functionality	
Ross Video - Vision - QMD	Not Known	Not Known		nat conversion lable macros Memory capacity	
NEW @ NAB 2010					
V9 software released	Non linear      Official implem		ME enabled V8.05 with users	guide.	

## NEW: DFS-900M

POP (Product Overview	Publicatio	on)					
The DFS-900M is designed for for a large production switc the DFS-900 makes it easy t with HD SDI available throu 900M can accept SDI, DVI an Up to 6 channels of DVE can Multiviewer outputs, format this a very cost effective so	ther. Burs to interfac ghout. Ca nd compose n be suppl t conversi	ting with ce with H tering fo site inpur ied with on, fram	features in a sn D cameras and o r up to 24 inputs ts through a vari 2 being provide e memory and S	nall, ergonomic pack other studio equipme s and 12 outputs, the iety of input card op d as standard. D / HD operation ma	age, ent, e DFS- tions.		
Market				Application			
Small to Medium Broadcast	and 2 <sup>nd</sup> ti			productio conference churches universiti	on facili ce produ es and o	uction collages	
List Price		Availab	ility	Contract category		Predecessor	
20K € Tentative for 1M/E sy	vstem		oer 2010- 1M/E er 2010 - 1,5M/E	HDB		DFS-800 (DFS-800 will continue to be supplied)	
Feature			Advantage		Benef	ït	
La Up to 24 inputs			Large input matrix that allows for medium broadcast type		custor for br	Configurable according to customers need and budget. Good for broadcast applications with low budget.	
Multi-format with built in re	esizers		Allows for the integration of SD &HD material without the need for external conversion.		Cost saving - no external convertors.		
2 Multiviewer outputs			Cost efficient or 2 VDU's.	monitoring using 1	requir		
DVI and composite inputs /	outputs		Computer and consumer products with DVI signals can be used in conjunction with the DFS-900M		includ for pr	er market appeal which les non BC customers. Good esentation and stadium / ition applications.	
Up to 6 channels of DVE, Chroma key standard on all	5		Powerful effects can be created Pow		Power	ful feature set appeals to cast and pro market.	
Competition		Price (pu	ıblic list	Top 3 values of Sony	V		
Snell Kahuna	now		o - Available	Superior functionality and user interface Superior chroma keyer Smaller control panel for Sony and similar functionality at a far lower price.			
FOR-A HVS-1000S	23K Euro (basic config) - Available now			Bigger input matrix (24 for Sony, 16 for FOR-A) More DME's (6 for Sony, 2 for FOR-A) Multiviewer – none on FOR-A model More Keyers (4 for Sony, 3 for FOR-A)			
Panasonic AV HS450	20K Euro - Available now.			Bigger input matrix (24 for Sony, 20 for Panasonic) More Keyers (4 for Sony, 1 for Panasonic) More Chroma keyers (4 for Sony, 1 for Panasonic) More DME's (6 for Sony, 2 for Panasonic)			
FOR-A HVS-300HS	11K Eu	ro - Avai	lable now	More DME's (6 for Sony, 2 for Panasonic) Bigger input matrix (24 for Sony, 12 for FOR-A) More Keyers (4 for Sony, 1 for FOR-A) More Multiviewer outputs (2 for Sony, 1 for FOR-A)			

Content Creation Marketing						<b>BRS-200</b>
POP (Product Overview Public BRS-200 Camera Switcher & Cont						
Market			Application			
Small Studio, Event & Live Produ	ction		production	where	there	switcher small scale low cost is a need to switch and of cameras.
List Price	Availab	ility	Contract ca			Predecessor
12000 Euros T2 (Tentative) TBA Euros T1	End Jur	ne 2009	ESE-SWEF-B	RS+		N/A
Feature		Advantage			Bene	
VISCA	/ISCA		Camera Control		Enables the user to control attached BRC cameras via one unit.	
Flexible input options		Various optional inputs can be selected		Creates input flexibility and system configuration		
Multi-Viewer		Multiple viewing options on a single monitor		Allows the user to choose a variety of view options on one screen and this keeps the system cost low.		
DVI Output		BRS-200 can output a DVI signal		used	effective monitor can be I on the system	
99 camera and presets and snaps	hots	Camera positions can be stored and recalled easily.		reca	ides for easy set-up and II of any camera settings and tions.	
Competition		Street Price (p price)	oublic list	Top 3	values	s of Sony
• FOR-A HVS-300HS		10000 Euros		• Inp	Visca & 422 control.	
Panasonic AV-HS400A     8000 Euro		8000 Euros		<ul><li>Vis</li><li>Inp</li></ul>		122 Control tions
• Slate G1000		12 000 Euros		<ul> <li>Inp</li> </ul>	e & W ut opt eratio	

## Studio Automation

Key Messages	<ul> <li>Best solution for most broadcasters to reduce the operational cost in TV news production</li> <li>ELC is shown at NAB09 as a REAL product; V1.0 has been released in March</li> <li>Utilize ELC as a tool to enhance MVS and other Sony equipment sales in recent economical crisis</li> </ul>
Comments	<ul> <li>ELC Location @NAB:</li> <li>Live Production Stage <ul> <li>Combined presentation with Sakura &amp; MVS-6000</li> <li>Appeal ELC's cost effective workflow in news production</li> </ul> </li> <li>Discussion Suite &lt; Invitation Only&gt; <ul> <li>Full working system demo</li> <li>Business discussion</li> </ul> </li> </ul>

Content Creation Marketing						ELC-MVS01
POP (Product Overview Publication	on)					
ELC-MVS01 stands for Enhanced Live <b>automation</b> solution for news TV pro						
ELC will bring a major enhancement through the automation solution with conventional manual operation.	ELC-MVS01					
ELC integrates only with Sony video switchers - MVS-6000, MVS-8000ASF/GSF or MVS- 8000A/G (2.5M/E or larger configuration) - and <b>controls</b> third party devices such as audio mixers, audio servers, camera robotics, DDRs (disk recorders), Character Generators (CG) and playout servers, which are commonly used for news production and broadcast.						
ELC also has a MOS newsroom interfa into the News Room Computer Syster			EWS and AP	ENF		ly
Market			Applicatio			
Medium to small TV stations	Availab	:1:+.,	Live news	•		
List Price	Availab	-	Contract o	ate	gory	Predecessor
TBC Euros T1	Since Ju	uly 2009	HDB			New Model
Feature		Advantage				enefit
NRCS centric		Utilization of the existing workflows to create programs		wł co	Automates control over devices which used to be manually controlled by a specialized operator	
Complex device control	Complex device control		Automates control over robotic cameras, audio mixer, DDR, audio servers, playout server, or any other MVS switcher system components			ecrease of operational cost
An easy-to-use graphic user interface					ables the user to concentrate running the show	
Real-time synchronization and update playlists	If NRCS rundown changes occur,			ables last minute modifications		
Enhanced flexibility with manual operations deleting the DS			o levels, or inserting or contr		ent All	lows operator to also have ntrol
Competition		Street Price (pu price)	iblic list	Тс	p 3 valu	ies of Sony
• Thomson/GV: Ignite				•		centric, producers workflow will
				•	lf Ignit	ange s last minute rundown e dies, all other MOS devices' vn will get lost
Ross Video : OverDrive	Ross Video : OverDrive			•	Intuitiv	

## **Broadcast & Professional Monitors**

Key Messages	<ul> <li>World wide sales of TRIMASTER Series monitors over 2,000 units!</li> <li>The TRIMASTER monitor range has expanded with three new models, SRM-L560, PVM-L3200 and PVM-L1700.</li> <li>Sony is renewing its LMD high-grade line up with the 51W Series by introducing a 20-inch model.</li> <li>The LMD-1530W wide screen Entry level Professional Monitor completes the family range with improved picture quality and very cost</li> </ul>
	<ul> <li>Sony is introducing the first OLED 7.4-inch wide screen portable monitor giving unrivalled picture quality in this range.</li> <li>Sony is exploring new technology to display 3D and "beyond HD" images.</li> </ul>
Comments	<ul> <li>Benchmark Sony Key technologies TRIMASTER and CHROMATRU used in Professional Monitors.</li> <li>Emphasise on the added value with the inclusion of the new auto white balance capability for the 51W series.</li> <li>Explore HDV and CRT market replacement opportunities with the new LMD-1530W</li> <li>Position the PVM-740 as ultimate quality with Sony's unique OLED Super Top Emission &amp; ChromaTRU technologies fitted.</li> <li>Explore business potential and customers requirements for 3D and "Beyond HD" technology demonstration. (i.e. 4K/QFHD content creation, industrial design, simulation, Cinema, Museum, conventions, etc.</li> </ul>

Content Creation Marketing			SRM-L560
Definition (QFHD) with the pic delivers ultimate picture quali product is aimed for 4K/QFHD Cinema industry as well as sim the industrial market.	blication) "beyond HD monitor" 56-inch ( ture resolution of 3840 x 2160 p ty with the TRIMASTER technolo content creation demand in the ulation, visualization and Resea	bixels. This n ogy fitted. T e Broadcast arch & develo	nonitor his and opment in
Market Digital Cinema, Industrial Desi Graphics(CG), Digital Single-Le Digital Printing Previews, Geog System(GIS), Research and Dev Entertainment, high-end video List Price	n ction 4K/2K/Full HD, High-end video e market, Master monitor for R&D is, Quad Full HD imaging, Industrial design, Museum, Conventions, Events, etc. category Predecessor		
EUR 69,900	Availability (Tentative) Available	PJD	None
Feature	Advantage		Benefit
QFHD (3840x2160) pixels	4 times Full HD resolution		Ultimate picture resolution for top-end Contents Creation and industrial applications
TRIMASTER technology	Accurate colour, precision imaging and picture consister	юу	Aiming to be a reference monitor for the 4K CC market
Same Display Engine as BVM-L231	Precise gamma, sophisticated conversion and colour manage system		Best video processing
Rear LED backlight with colour and temperature sensors for real time feedback control	Ultimate picture uniformity	Picture consistency and stability for evaluation purposes	
High purity LED backlight system	Expand colour gamut near DC	I (P3)	Expanding scope of applications.
Competition	Street Price (public list price)		Top 3 values of Sony
Astro Design DM3410/3400	CCFL backlight, 10-bit panel, DVI-D		Ultimate picture performance with     TRIMASTER
• Barco LC5621	CCFL backlight, 8-bit panel, E	)VI-D only	LED backlight for wider colour gamut and ultimate picture uniformity
• Mitsubishi 56P-QF60LCU	CCFL backlight, 8-bit panel, E	VI-D only	<ul> <li>Versatility of video inputs thru 3G/HD-SDI, DVI-D and HDMI</li> <li>2K/HD Zoom feature</li> </ul>
Toshiba P56QHD	CCFL backlight, 8-bit panel, E	VI-D only	High-end production features

#### BVM-L231 TRIMASTER

POP (Product Overview Publication)

The BVM-L231 is the second generation of Master monitor aimed for evaluation purposes. II is replacing the well know BVM-L230 after its sales record close to 1,000 units world wide. This new model benefits of backlight scanning feature and is also equipped with a HDMI connector to display HDV contents or when used in conjunctions with a Blu Ray authoring system.



authoring system.							
Market			Application	n			
			Mastering, Evaluation, colour grading, Production,				
Digital Cinema, Broadcast			Post-Production, Quality Control, Engineering, Master control room PGM/PVW, etc.				
List Price	Availabi	lity	Contract c	ateç	gory		Predecessor
€22,100 Euros EU €19,400 Euros NEU	Since Ju	ine 2009	PAV				BVM-L230
Feature		Advantage				Benefit	
TRIMASTER technology		Precise colour, picture consiste	ency			Ultimate   consistend	picture quality and cy
Precision LED backlight system		Expand colour ( (P3)	gamut near l	DCI		•	ope of applications
Sony unique Display Engine	High accuracy a delay		and low video			The most precise and lowest video delay monitor in the market!	
Black frame insertion and interlace mode		Backlight scanning technology allows maintaining good black level and motion blur reduction			Better blacks with less Blur, true Interlace reproduction		
HDMI input		Future proof co			For HDV o system	r Blu Ray authoring	
Competition		Street Price (pu price)	ublic list	То	p 5 va	alues of Sc	ony
Barco RHDM-2301		N/A		٠			cy and uniformity with
						ct LED bac	
		produ		<sup>o</sup> generation of BVM - Highly Mature			
				HD frame capture on memory stick			
					Separate control unit		
Cinetal range		N/A		•		e precise a	and accurate Master
				•	• Better accuracy with 10bit LCI		cy with 10bit LCD driver,
							ing and LED backlight
				٠			gamut for D-Cine
				٠			consistency
				•	Wide	er viewing	angle

#### BVM-L170

POP (Product Overview Publication)

The BVM-L170 is the first Sony 17-inch Master monitor equipped with a Full HD LCD panel. This monitor benefits of TRIMASTER technology to reproduce very accurate and consistent images. It can be mounted in a 19-inch rack for engineering or quality control. Also equipped with a 24V DC power, this monitor can be used on location shooting for Cinema or high-end acquisition. This new model benefits of backlight scanning feature and is also equipped with a HDMI connector to display HDV contents or when used in conjunctions with a Blu Ray authoring system.

TRIMASTER

or when used in conjunctions wit	:h a Blu Ray a	authoring system				
Market			Application			
Digital Cinema, Broadcast			Mastering, Evaluation, colour grading, Production, Post-Production, Quality Control, Engineering, On locations shooting, etc.			
List Price	Availat	oility	Contract categ	0	Predecessor	
€12,800 Euros EU €11,230 Euros NEU	Availat	ble	PAV		BVM-A14F5M	
Feature		Advantage		Benef		
TRIMASTER technology		Precise colour, picture consist	ency	consis	ate picture quality and stency	
Precision LED backlight system		(P3)	gamut near DCI	range	Expanding scope of application range.	
Sony unique Display Engine		High accuracy and low video delay			The most precise and lowest video delay monitor in the market	
Black frame insertion and interlace mode		Backlight scanning technology allows maintaining good black level and motion blur reduction		Intorl	Better blacks with less Blur, true Interlace reproduction	
HDMI input		Future proof connection		For H syster	DV or Blu Ray authoring m	
24V DC power		Less electrocut	tion risk	For or	n locations shooting	
19-inch rack mounting		Fits inside rack, easy connection of video inputs at rear			Ideal for Mobile video productions or in engineering racks	
Competition		Street Price (p price)	ublic list	Top 5 va	lues of Sony	
• Barco 17-inch		N/A		<ul><li>with</li><li>Based</li><li>Highl</li><li>HD fr</li></ul>	er accuracy and uniformity Direct LED backlights d on BVM-L231 technology - y Mature product ame capture on memory stick rate control unit	

#### PVM-L3200

## POP (Product Overview Publication)

The PVM-L3200 is a 32-inch Broadcast Monitor fitted with TRIMASTER technology for critical picture monitoring purposes. Its large screen size makes this monitor ideal for Post Production editing. The PVM-L3200 shares most of the high-end features included in the BVM-L231 Master monitor but at an affordable cost. The PVM-L3200 is equipped with a wide fluorescent backlight system to emulate precisely the Broadcast colour gamut standards. This new model benefits of backlight scanning feature and is also equipped with a HDMI connector to display HDV contents or when used in conjunctions with a Blu Ray authoring system.

TRIMASTER



Market		Applicatio	n				
Broadcast			Production, Post-Production, Quality Control, Engineering, Master control room PGM/PVW, etc.				
List Price	Availability	Contract of	category	Predecessor			
€15,000 Euros EU €13,158 Euros NEU	Since January 2010	PAV		N/A			
Feature	Advantage		Benefit				
TRIMASTER technology	Precise colour, gam good picture consist	tency	Excellent pic	cture quality			
Precision backlight system     Precision backlight system     SMPTE-C, IT			Accurate col	Accurate colour reproduction.			
Sony unique Display Engine	High accuracy and I delay	High accuracy and low video delay		The most precise and lowest video delay monitor in the market!			
<ul> <li>Black frame insertion and interlamode</li> </ul>	ice allows maintaining	Backlight scanning technology allows maintaining good black level and motion blur reduction		Better blacks with less Blur, true Interlace reproduction			
HDMI input	Future proof connect	ction	tion For HDV or Blu Ray authoring				
Competition	Street Price (public price)	list Top !	5 values of Sor	Ŋ			
Cinetal B420 42-inch	N/A						

Content Creation Marketing				PVM-L2300	
POP (Product Overview Publicatio	n)			TRIMASTER	
The PVM-L2300 is a 23-inch Broadcast critical picture monitoring purposes. L230 Master monitor sharing most of very affordable cost. The PVM-L2300 system to emulate precisely the Broa benefits of backlight scanning feature display HDV contents or when used in	It is a derivative model o the high-end features of is equipped with a wide dcast standards colour G e and is also equipped wi	f the reference this monitor but fluorescent back amut. This new th a HDMI conne Ray authoring s	BVM- at a klight model ector to ystem.		
Market		Applica			
Broadcast		Engine etc.	ering, Mas	-Production, Quality Control, ster control room PGM/PVW,	
List Price	Availability	Contract cate	gory	Predecessor	
€10,320 Euros EU €9,050 Euros NEU	Available	PAV		N/A	
Feature	Advantage		Benefit	t	
TRIMASTER technology	Precise colour, gam picture consistency	Ũ	Excelle	ent picture quality	
Precision backlight system	Emulate various Bro standards colour Ga SMPTE-C, ITU-709			rate colour reproduction.	
Sony unique Display Engine	High accuracy and I	5		ost precise and lowest video nonitor in the market!	
Black frame insertion and interlace mode	Backlight scanning t allows maintaining level and motion blu	good black	Better blacks with less Blur, true Interlace reproduction		
HDMI input	Future proof connect	ction	For HD	V or Blu Ray authoring system	
Competition	Street Price (public price)	list Top 5 va	lues of So	ny	
Barco RHDM-2301	N/A	<ul> <li>Matu L230</li> <li>HD fr separ</li> <li>Bette</li> <li>Cost</li> </ul>	re produc ame capt rate contr er SD pictu effective	ure reproduction Control monitor	
Cinetal range	N/A	<ul> <li>More precise and accurate Control</li> <li>Better accuracy with 10bit LCD of bit output processing, Sony Displ</li> <li>Wider viewing angle</li> <li>Better picture consistency</li> <li>Better SD picture reproduction</li> </ul>			
• TV Logic - XVM-245W	N/A	<ul> <li>Bette pictu</li> <li>Wide</li> <li>Bette</li> </ul>	er colour a re uniforr r viewing er SD picti	accuracy, Gamma tracking and mity	

#### PVM-L1700

## POP (Product Overview Publication)

The PVM-L1700 is a 17-inch full HD Broadcast LCD monitor aimed for critical picture monitoring. It is completing the current PVM-L2300 in the TRIMASTER range. This monitor is a cost effective version of the BVM-L170. While BVM-L has been designed to perform the highest preciseness in every feature aspect, PVM-L has been designed to be more affordable with a wise compromise of wider tolerance in specification. PVM-L1700 will fit all applications requiring a high quality picture reproduction.



TRIMASTER

Market		Applicatio	Application				
Broadcast production & post produc	tion		Camera & VTR control, Engineering room, production monitor wall, Editing, etc.				
List Price	Availability (Tenta	ative) Contract	category Predecessor				
EU €8,280 NEU €7,263	Since October 200	9 PVA	None				
Feature	Advantag		Benefit				
TRIMASTER technology	performa		Precise colour, gamma and picture consistency				
<ul> <li>Sony Display Engine used in BVN Series</li> </ul>	A-L State of t Engine	the Art Display	High quality HD and SD picture reproduction				
Cost effective monitor	Save mor	ney	Access to high picture quality at lower price				
• 3G ready	Future pr	roof	Accept 1080p and HD SDI Dual Link format with the optional BKM-250TG				
Rack mount capability		uction use	Easy cabling at the back				
Competition	Street Pr price)	ice (public list	Top 3 values of Sony				
Barco 17-inch	N/A		<ul> <li>Competitive picture performance</li> <li>Based on BVM-L231 technology - Highly Mature product</li> <li>HD frame capture on memory stick</li> <li>Separate control unit</li> </ul>				
• Ikegami, HLM-1750WR	N/A		<ul> <li>Higher grade picture quality and precision imaging</li> <li>Added value features for top-end applications</li> <li>State of the Art TRIMASTER technology</li> </ul>				
• Marshall, V-R171	N/A		<ul> <li>Higher grade picture quality and precision imaging</li> <li>Added value features for top-end applications</li> <li>State of the Art TRIMASTER technology</li> </ul>				
• Penta, HD2Iine PD 17W	N/A		<ul> <li>Higher grade picture quality and precision imaging</li> <li>Added value features for top-end applications</li> <li>State of the Art TRIMASTER technology</li> </ul>				

### NEW: LMD-2451TD & LMD-4251TD

## POP (Product Overview Publication)

The LMD-2451TD and LMD-4251TD are 24-inch and 42-inch 3D professional monitors. They are built on the same product concept as the well known LMD-51W series. 3D effect is available through 3D passive glasses. An optional 3D board is available to support 2x HD-SDI inputs for left and right channel.



Market	Application					
Broadcast, corporate, industrial, etc.		Acquisition, Production OB vehicle, Studio, Editing, etc.				
List Price	Availability	Contract	category	Predecessor		
N/A	Sep/October 2010	VAV		N/A		
Feature	Advantage		Benefit			
Professional monitor design	Faithfull pictu reproduction	re	Trust what y and reliabilit	ou see! picture confidence ty		
ChromaTRU and 10-bit driver	Excellent colo and precise ga response		High level of consistency	picture accuracy and		
Passive glasses	Cheap, light , free, brighter,	Cheap, light, flicker free, brighter,		Convenient for multiple viewers		
Same chassis as LMD-51W series		Robust, professional features and various I/O		Already mature product		
2D compatibility	_	Smooth migration to 3D		Secured investment		
Competition	Street Price (p price)	oublic list	Top 3 values	s of Sony		
<ul> <li>JVC 24-inch and 46-inch professional/consumer derivative monitor</li> </ul>	24-inch N/A			nal design are performance D signal inputs pport included		
<ul> <li>Hyundai 24, 32 and 46-inch computed derivative monitors</li> </ul>	ter W240S €970 S320D €3,190 S465D €6,500	S320D €3,190		nal design ure performance D signal inputs pport included		
Panasonic 25.5-inch Professional m	onitor BT-3DL2550 ~	9,900 USD	<ul> <li>Professional design</li> <li>High picture performance</li> <li>HD-SDI 3D signal inputs</li> <li>Prime Support included</li> </ul>			

### LMD-2451W & LMD-1751W

LMD-1751W

POP (Product Overview Publi	ChromaTRU			
The LMD-2451W and LMD-1751W the current 50W Series. These n LCD panel for improved picture ready, Improved WFM/ALM meter the same chassis as the 50W series Market	belongs to the new 51W serie ew models benefit of the late quality. New features are incl er and automatic audio lip syr	est generation of luded such as 3G	se	
Broadcast, corporate, institutional		Production gallery, editing, office viewing, studio, etc.		
EU List Price (Tentative)	Availability (Tentative)	Contract catego	pry Predecessor	
LMD-2451W €4,291 Euros LMD-1751W €3,192 Euros With HD/SD-SDI inputs & stand	LMD-2451W since Jul-09 LMD-1751W since Aug-09	VAV	LMD-2450W LMD-1750W	
Feature	Advantage		Benefit	
ChromaTRU technology + 10 bits processing	accuracy	U U	Consistent image from monitor to monitor	
3G ready	Accept 1080p fo	ç	Reduce system cost and cabling for 1080p	
Smart lighting function key	Fit nicely in a pr gallery		Fashionable design for desktop and monitor wall	
Slot structure	Customised solu board from Harr		Future proof and cost effective option on demand	
Ethernet remote	Monitor Control	at distance	Enhanced User flexibility	
Competition • JVC DT-V24L3D • JVC DT-V17L3D	Street Price (p price) €4,300 Euros €2,790 Euros	•   •   •   •   •   •	Low ambient light reflection 3G ready and native mode SD I/P mode selection with audio lip sync Quad Split capability Ethernet remote and Smart function keys	
<ul> <li>Panasonic BT-LH2550</li> <li>Panasonic BT-LH1760</li> <li>Panasonic BT-LH1710</li> <li>TV Logic LVM-241W/LMD-171</li> </ul>	€5,190 Euros €3,650 Euros €3, 090 Euros WP N/A		Price and size 3G ready and native mode SD J/P mode selection with audio lip sync Quad Split capability Ethernet remote and Smart function Keys J/P mode selection with audio lip sync Quad Split capability Ethernet remote and Smart function Keys	

Content Creation Marketing				NEW: LMD-2051W		
POP (Product Overview Publication)						
The LMD-2051W belongs to the new Series. New features are included su automatic audio lip sync. This monite features as the 50W series. A new Au with the support of an external X Rit	uch as 3G ready, Imp or uses the same cha ito White Balance fu	roved WFM/ALM assis and has the s nction is also ava by X-Rite.	meter and same ilable	3		
Market	<b>n</b> n gallery, edit	ting, office viewing, studio,				
Broadcast, corporate, institutional		etc.				
List Price	Availability	Contract of	category	Predecessor		
€2,840 Euros	September 2010	VAV		LMD-2050W		
Feature	Advantage		Benefit			
ChromaTRU technology + 10 bits     processing	gamma ad	Precise colour and gamma accuracy		Consistent image from monitor to monitor		
• 3G ready		Accept 1080p format on single link		Reduce system cost and cabling for 1080p		
Smart lighting function key	gallery	Fit nicely in a production gallery		Fashionable design for desktop and monitor wall		
Slot structure		Customised solution, Quad Split board from Harris		Future proof and cost effective option on demand		
Ethernet remote	Monitor C distance	Monitor Control at distance		Enhanced User flexibility		
Competition	Street Pri price)	Street Price (public list price)		Top 3 values of Sony		
<ul> <li>JVC 20-inch</li> <li>Penta 20-inch HD2 line</li> <li>Marshall 20-inch</li> </ul>	DT-V2OL3 PD20WA	DT-V2OL3D €2,900		<ul> <li>Low ambient light reflection</li> <li>3G ready and native mode SD</li> <li>I/P mode selection with audio lip sync</li> <li>Quad Split capability</li> <li>Ethernet remote and Smart function keys</li> </ul>		

#### LMD-1530W

## POP (Product Overview Publication)

The LMD-1530W is the first 15-inch wide screen professional monitor equipped with a HDMI input. This monitor is using the latest generation of LCD panel providing high quality HD and SD images. The LMD-1530W is equipped with the basics features of a professional monitors specifically targeted to reproduce moving images. Together with the LMD-2030W, these entry level family products are ideal use for CRT replacement in local TV stations and for displaying HDV contents through HDMI.



displaying HDV contents through HDN	11.				
Market	Application				
Broadcast, Videographer, Corporate, Institutional, Security, Free-lancers		Production, Post production, Field, Office viewing, etc.			
List Price	Availability	Contract categ	ory P	redecessor	
€1,220 Euros EU	Since June 2009	VAV	L	MD-1420, LMD-1410	
Feature	Advantage		Benefit		
15" WS IPS LCD Panel	Same picture heig	ht as CRT 14-inch	Excellent viewing angle.		
Basics Professional features	Fits user requirem Professional	its user requirements for Professional		Great user flexibility	
Optimised for moving pictures	Less artefacts on	picture	A reference m applications	reference monitor for Entry level oplications	
WXGA picture resolution	Higher resolution	Higher resolution over LMD 14-inch		Good SD picture reproduction	
HDMI input	HD and computer	format	Future proof	uture proof	
Competition	Street Price price)	(public list	o 3 values of Sor	ıy	
JVC - No competitor model		•	Unique sales opportunities		
		• CR		RT replacement market	
		•	<ul> <li>Pro Monitor below €1k</li> </ul>		
Panasonic -No competitor model		Unique sales opportunities			
		•	CRT replaceme		
		•	Pro Monitor bel		
TV Logic - No competitor model			Unique sales opportunities		
			CRT replaceme		
		•	Pro Monitor bel	ow €1k	

Market

### LMD-940W

## POP (Product Overview Publication)

The LMD-940W is a new 9-inch wide screen monitor. It is the first Sony monitor equipped with a 3G interface to display 1080p signal format. A HDMI input is available to display HDV contents. As for the High-grade LMD 50W series, it is fitted with ChromaTRU technology that provides accurate colour reproduction, CRT like gamma and stable colour temperature and white balance. For large installation, the LMD-940W is equipped with an Ethernet connector for easy remote control. For outdoor/indoor operation a waveform and audio level meter is integrated. This monitor can be mounted in a 19-inch rack with an optional accessory.



Production, Broadcast, Mobile Studio, Field operation

Application

Camera assist monitor, Field monitor, Rack mounting applications, Source monitoring, etc.

		elt.	
List Price	Availability	Contract catego	ry Predecessor
€2,588 Euros EU €2,270 Euros NEU	Since May 2009	VAV	LMD-9050
Feature	Advantage		Benefit
3G ready	Single HD-SDI link for	<sup>-</sup> 1080p	Simple connectivity - Single link
ChromaTRU technology	Colour accuracy, CRT stable colour temper		Precise and repeatable picture quality
New WFM/ALM	Separate WFM and Al	LM available (8ch)	Less equipment required for outdoor operation
Native scan for SD/HD	No artefact. Pixel to reproduction.	pixel	Better picture quality
Camera focus function	Aperture level contro	ol for easy focus	User feature to ease camera focus adjustment
HDMI input	Video/Audio and con single connector	nputer format on a	Future proof HD. Compatible with HDV format
Ethernet remote	Monitor control at di	stance	Enhanced user flexibility
Competition	Street Price (public list price	Top !	5 values of Sony
• JVC DTV-9L3D 9-inch	€2,150	• 3 • C • E • I/ S	G ready & HDMI hromaTRU technology thernet remote /P mode selection & Native scan D/HD ideo Waveform
Panasonic BT-LH80W 7.9-inch	€2,580 Euros EL	• C • E	igger size 9-inch, 3G ready & HDMI hromaTRU technology thernet remote /P mode selection & Native scan SD
TV Logic LVM-091W	N/A	• C	G ready & HDMI hromaTRU technology thernet remote, Audio Level Meter

Content Creation Marketing				NEW: PVM-740
POP (Product Overview Publ	ication)			
The PVM-740 is the first OLED Sony p uses Sony's unique Super Top Emission value in term of picture performance. The PVM-740 is a 7.4-inch display wi QVGA. It has the same chassis as the functionalities.	on (STE) OLED to e as compare to th quarter HD re	echnology offering r conventional OLED esolution over conve -940W and offer sin	real added technology. entional hilar	
Market		Applica		
Broadcast, corporate, industrial and etc.	government, se			mera assist monitor, Production critical viewing, R&D, etc.
List Price	Availability	Contrac	t category	Predecessor
€3,050 Euros EU €2,675 Euros NEU	April 2010	VAV		N/A
<ul> <li>Feature</li> <li>Sony OLED technology (STE)</li> </ul>	Rich colou Stuni speed		Benefit Best pictu	are performance on the market
High resolution panel	contr Low	ase brightness and rast power consumption ter HD (960x540)		solution than other small size
ChromaTRU and 10-bit driver		llent colour depth precise gamma prse		VGA, 800x480) I of accuracy
Superior performance		er than CRTs !	Best prod	uct in its size range
Same chassis and functionalities     LMD-940W	opera		Cover var	ious applications
Competition		et Price (public list	Top 3 valu	ues of Sony
Tamuz OCM-107W		00 Euros	<ul><li>Low p</li><li>Prime</li></ul>	icture performance ower consumption support included
Marshall V-OL761	~ 2,4	400 USD	Low p	icture performance ower consumption support included

#### BKM-250TG

POP (Product Overview Publication)

The BKM-250TG is a new 3G SDI input adaptor. This accessory is compatible with the BVM-L/PVM-L and the new LMD-xx51W Series. New features are also available such as the visualisation of VITC and TC information and a new audio level meter lay-out allowing 8ch embedded audio to be displayed.



Market				Application			
Broadcast				Series	a for BVM-L, I	PVM-L and LMD-xx51W	
List Price	Availab	lability Co		Contract category		Predecessor	
EU €2,142 NEU €2,080	Since Ju	une 2009	e 2009 VAV			N/A	
Feature		Advantage			Benefit		
3G, HD, SD-SDI is available		Accept up to 7 various 4:4:4			Future proc	of	
2x SDI input and output		Active loop mode			vailable instead of 1 tput on BKM-243HS		
Enhanced Audio Level Meter		8ch embeddeo	d Aud	io (4+4)	Enhanced u	iser operation	
VITC/LTC display (BVM-L, PVM-L)		Various position	ons or	n screen (6x)	Time code	display	
Dual Link model is available with combination of BKM-250TG/243HS		Accept Dual L non 3G equipr		puts from	Compatible equipment	e with non 3G	
Competition	Street	Price (public I	ist pr	се) Тор	3 values of So	ony	
N/A							

## **Professional Audio**

**Key Messages** 

- High Quality Audio
- New Digital rack system
- Expanding the market for Digital Wireless Audio

### Comments

- Aimed at the live sound market in theatre, concert and broadcast studio applications
- Compliments current DWL Product Range
- Need to establish Sony's new heritage for audio performance and stable digital transmission

### NEW: DWM-01/F31 & DWM-01/C31

#### POP (Product Overview Publication) Focused on supremely high quality audio and extreme usability for performers, the digital microphone range is set to become the standard choice for performers and live audio engineers worldwide. Starting with a new microphone dynamic capsule (DWM-01/F31) and another with a condenser capsule (DWM-01/C31) both perfectly matched for vocal applications, the all-digital wireless signal path maintains the essence of the live performance transparently, with a wide frequency response and a superb dynamic range. For performers, they are the ideal size and weight for the most demanding conditions. For engineers and producers, microphone metadata allows accurate and instant control of important parameters. Market Application Live event and concerts live stage and broadcast audio Live studio productions List Price Availability Contract category Predecessor DWM-01/F31 €2,560 T2 April 2010 VAV N/A DWM-01/C31 €2,680 T2 Feature Digital handheld microphones with newly developed uni-directional (super-cardiod) dynamic and condenser capsules. Ideally suited for vocal applications. Low latency and secure audio transmission with metadata. The microphones frequency response is 60 Hz - 18 kHz with a maximum input level of 151 dBSPL. 5-hour battery life using two AA alkaline batteries at 10 mW power setting Selectable output power 1/10/50 mW Transmitter functions; including input attenuator, RF frequency selection, RF power output, Audio LCF frequency and a power sleep mode (in the transmitter) can be remotely controlled from the digital wireless receiver. (using 2.4 GHz IEEE802.15.4 communication technology) Equipped with the organic EL display Perfect size and weight for performers

## NEW: DWR-R01D

POP (Product Overview Publicat	ion)				
The DWR-R01D is a 2-channel, 1U-s and studio use.	eiver for live stage				
Get these key benefits by going dig System:	Get these key benefits by going digital with a Sony Digital Wireless Microphone System:				
<ul> <li>Quality: Crystal-clear audio with an excellent frequency response, low distortion and a wide dynamic range.</li> <li>Stability: All-new Sony digital technology means less interference, fading and intermodulation distortion.</li> <li>Security: Highly secure system with encryption to prevent interception and piracy</li> <li>Versatility: Efficient multi-channel operation with easy set-up and support for up to one and a half times as many simultaneous microphone channels as a typical analogue wireless system.</li> <li>Flexibility: Stay in control with extra features like remote adjustment of frequency selection and wireless control of transmitters.</li> <li>Efficiency: The transmitter sends battery status, RF level information and the performers name back to the receiver.</li> </ul>					
Market live stage and broadcast audio		Application Live event and cor			
List Price	Availability	Live studio produc Contract category	Predecessor		
DWR-R01D € 2,560 T2	April 2010	VAV	N/A		
than 16 channels can be op	erated simultaneously.		D-850 UHF Antenna Divider, more		
The DWR-R01D gives covera	0				
The DWR-R01D features pre	-programmed wireless	channel plans for simul	taneous multi-channel operation		
Each channel is equipped w	ith a large OLED displa	y for easy operation.			
• To assist in the wireless sys channel scan functions.	tem set-up, the digital	wireless receiver incluc	les both clear channel and active		
As well as analogue audio o	utput, the DWR-R01D c	comes equipped with 3 A	AES/EBU outputs.		
The Word Sync input / outp	out for external word sy	ınc signal is also availab	le.		
DWR-R01D supports diversit output for the external ant			ntenna are provided. The DC power		

Sonys "Media Back	bone" Vision and approach
Key Messages	Not a product or a solution
5 5	• Sony's approach and vision for a tapeless file based world
	It covers many segments from Small NP and Archive solutions     to the very largest Enterprise Integration platforms
	<ul> <li>A number of existing product/solutions are part of this message, ie Sonaps and HDXChange</li> </ul>
	<ul> <li>New Solutions include Media Backbone - Conductor (previously MwM) and</li> </ul>
	Media Backbone - Ensemble (Previously CMS)
	<ul> <li>All offerings require 3<sup>rd</sup> Party products to complete the story, this is NOT a Sony ONLY approach</li> </ul>
	Partners remain key to our success
Comments	<ul> <li>Conductor, Ensemble, XDCAM Archive are all being "Previewed" at the show</li> </ul>
	We are looking for Pilot projects for FY2010
	Full rollout is in FY2011

N	EW: Sonys Media Backbone "Conductor"
Key Messages	<ul> <li>Enterprise Class Workflow Management and System Orchestration Platform</li> </ul>
	<ul> <li>Based on SOA (Service Orientated Architecture) platform from Software AG of Germany</li> </ul>
	<ul> <li>Primary aim is to create a way of linking separated (Silo'd) applications and systems together.</li> </ul>
	<ul> <li>Provides greater visibility of process's and resources through the use of KPI dashboards</li> </ul>
	<ul> <li>Sony's implementation is a very open approach, utilising 3<sup>rd</sup> Parties to complete the solution.</li> </ul>
	Sony's Value Add is clear
	<ul> <li>Platform is based on World Class SOA Player</li> </ul>
	<ul> <li>We understand our customers business and can be trusted to develop the right workflows</li> <li>We talk their language !</li> </ul>
	<ul> <li>We have the capability to deliver the enter Services package, consultancy, design, implementation and support</li> </ul>
	<ul> <li>This approach will succeed because we have the right knowledge/capability and platform</li> </ul>
Comments	
	<ul> <li>Customised Workflows are developed for each and every customer and application type.</li> </ul>
	<ul> <li>We are developing a "Menu" of services and adapters to enable legacy and new platforms to be integrated</li> </ul>
	<ul> <li>SOA is well known to many of our customers, they may know more that you !</li> </ul>
	SOA is widely talked about in the industry
	Suitable for the top 30-50 broadcasters in Europe
	We are looking for 1-2 Pilots for FY 2010
	Full Rollout will

<b>^</b>	NEW: Sonys Media Backbone "Ensemble"
Key Messages	<ul> <li>Content Management System for Archive</li> <li>Providing end to end solution including Ingest, cataloguing, browsing, Archive management and delivery</li> <li>Integration into wide range of NLE's</li> <li>Initially delivered as an end to end platform</li> <li>In FY 2011 system can be broken down to Components and integrated into "Conductor" for smaller Enterprise engagements</li> <li>Key USP's include <ul> <li>Automated metadata capture such as Voice to Text, Accurate key frame detection</li> <li>Advanced search facilities like Face Detection, Image similarity search</li> <li>Built in QC for Audio and Video</li> </ul> </li> </ul>
Comments	<ul> <li>V1 is scheduled for July 2010</li> <li>Prices from 150k- 1m Euro including library</li> <li>We are looking for 2-4 Pilot projects for FY2010</li> </ul>

Key Messages	<ul> <li>NEW: XDCAM-Archive</li> <li>Packaged Solution for Simple Archiving</li> <li>Optimized for Shelf Archive using XDCAM disks</li> <li>Includes Cataloguing and browsing tools</li> <li>Wide range of None video formats supports</li> </ul>
Comments	<ul> <li>V1 is scheduled for July 2010</li> <li>Prices from 50k Euro including base server and 500 hours of online cache storage</li> <li>We are looking for 2-4 Pilot projects for FY2010</li> </ul>

	NEW: Ellcami
Key Messages	<ul> <li>Cell Based ingest and transcoding platform</li> <li>Massive processing capability with up to 128 cores in a single workstation</li> <li>Can ingest from 4 SD or HD VTR's simultaneously</li> <li>2 HD SR VTR's at double speed or at single speed 4:4:4</li> <li>Resolution independent - Proxy to 4k</li> <li>Wide range of Codec support including AVC-1, MPEG2, AVID DNX, J2k etc</li> <li>Wide choice of file formats and wrappers including, MXF, DPX</li> <li>Intelligent workflows such as built in QC functions, Queue management, LUT support and "Burn-ins" for Post</li> </ul>
Comments	<ul> <li>V1 is scheduled for May/June 2010</li> <li>Initial target market is Post Production because of types of workflow and codec support</li> <li>Prices from 25k Euro for Transcoder and 30k for Ingest platform</li> <li>Beta testing starts in Europe around June 2010</li> </ul>

	HDXChange
Key Messages	<ul> <li>V5 is on stand</li> <li>ENPS integration is previewed including plac Holder</li> <li>New Multi-channel Ingest server</li> <li>Adobe Premier and Edius integration added</li> <li>IBIS Automation links into Omneon for Playout</li> <li>IBM Archive Library with Petaserve</li> </ul>
Comments	<ul> <li>Pricing from 40k Euro</li> <li>Over 80 Systems running in Europe</li> <li>V6 Planned for End of Calendar year</li> </ul>

Key Points	•	Sonaps is working and on air
	•	Sonaps has market-leading workflow
	•	Sonaps is open and has market-leading integration
	•	Sonaps can scale from small to x-large
	•	Sonaps is future proof
	•	Enhanced HD 4:2:2 50M end-to-end total workflow
	•	Enhanced file base operation
		<ul> <li>Remote connection : File exchange between Sonaps systems</li> </ul>
	•	Integrated with all major newsroom systems
	•	Integrated with major graphics systems

Pricing & Availability Starts	s from €300,000 for Small system
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11 <sup>th</sup> April 2010		Notes:
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