DOCUMENT C6 : Spécifications du caméscope DMC1000

Specifications

Infinity Digital Media Camcorder	**Infinity DMC – Model No. DMC 1000**	
General		
Power	DC 15V (11.0V to 17.0V) Consumption during record standby 45W, with active imaging, view finder, compression, buffer, and lens Consumption while recording 49W, while recording to REV PRO	
Temperature range	Operating: 0°C to 40°C (32°F to 104°F); Storage: -20°C to 60°C (-4°F to 140°F)	
Humidity range	10 to 90% (relative humidity)	
Weight	5 kg (11 lbs.) without viewfinder, 5.7 kg (12.6 lbs.) with HD CRT viewfinder	
Dimensions	240 mm (H) x 150 mm (W) x 330 mm (L) without lens and battery	
Camera Part		
Lens mount	2/3" bayonet type	
Optical system	F1.4 prism	
Optical filters	Motorized: clear, 1/4 ND, 1/16 ND, 1/64 ND	
Color-correction filters	Electronic: 3200°K, 4700°K, 5600°K, 7500°K, 2 AWB presets and continuous auto-white, Variable color temperature: 2200°K to 20000°K in 10°K steps	
Pickup device	3 x 2/3" full HD Xensium CMOS imagers	
Digital processing	22-bit accurate processing	
Exposure	Electronic exposure down to 1/2000 sec	
Video Mode	**625i/525i**	**1080i/720P**
Temporal frequencies	50/59.94 Hz	50/59.94 Hz
Gain	-6 dB to +42 dB in 3 dB steps (user-definable presets) and variable master gain between -6 dB and +17.9 dB in 0.1 dB steps	
Aspect ratio	16:9, 4:3, and letterbox	16:9
Sensitivity	2000 lux (186 ft.cd.) at F8 typical	
S/N ratio in Y signal	61 dB typical	54 dB typical
Modulation depth	70% at 5 MHz in luminance (Y) signal (16:9)	50% at 800 TV lines (27 MHz) in luminance (Y) signal
Audio	20 Hz – 20 kHz unweighted, 24 bits PCM, 48 kHz, dynamic range 85 dB	
Compression		
DV25	Both PAL (4:2:0) and NTSC (4:1:1)	
JPEG 2000	**SD**	**HD**
	10-bit, 4:2:2	10-bit, 4:2:2
	30-, 40-, 50 Mb/s	50-, 75-, 100 Mb/s
MPEG-2 (requires the DMC 1120 MPEG-2 option board)	—	**HD**
		8-bit, 4:2:0
		60 and 80 Mb/s, I-Frame
File Formats		
High-quality content	MXF OP-1A (SMPTE 378M), including 4 channels of PCM audio and metadata	
Metadata definition	Compatible with SMPTE Metadata Dictionary RP210	
Built-In Storage		
REV PRO	REV PRO drive	
CompactFlash	2 x Type I and II CompactFlash slots, speed depending on media	
Camcorder Connectors		
Front microphone input	XLR-3 female, balanced +48V XLR-5 female, balanced +48V phantom (requires DMC 1180 option)	
Rear audio inputs	2 x XLR-3 male, mic-/line-level, balanced, +48V selectable	
Additional audio inputs	AES/EBU or embedded (HD-)SDI audio via BNC and 2 channels via wireless receiver slot	

DOCUMENT C7 : Dispositif permettant d'accueillir le support de stockage REVPRO

Product Data Sheet

S h e e t

More Than Just a Recording Media

REV PRO disks are ideal for video recording and playback—but they can do so much more. For nonlinear editing projects you can mount REV PRO disks as hard drives; there's no need to transfer or ingest the data. You can save footage and edited pieces on the same disk, letting you archive projects together to make future editing or repurposing more efficient. Because REV PRO disks are hard drives, files can be copied to them more quickly than videotape—up to 200 Mb/s in file-transfer mode. REV PRO disks are also ideal for archiving other files associated with a project—e-mail, scripts, still shots, graphics, research documents, and more. It can also be used for backing up computer files, hard drives, or even other REV disks.

A Perfect Fit For Infinity Series

REV PRO media and drives are part of the new Grass Valley™ Infinity™ Series of IT-immersed products. The Infinity Series creates a truly open workflow solution—one that avoids proprietary approaches and uses available technology in new ways. Its underlying philosophy is based on a very simple principle: leverage technology from the IT industry to create new ways of doing things without sacrificing quality. REV PRO products are part of this new philosophy to bring readily available, nonlinear recording media to the video and broadcast industries.

REV PRO

Shoot. Record. Edit. Archive.

REV PRO allows you to easily acquire material with a digital camcorder, record material using VTR-like decks or PC-based drives, directly use material in editing or post-production environments, and archive material for up to 30 years.

Specifications

Environmental

Temperature Range: -10°C to 60°C (14°F to 140°F)*

Altitude: 4,5000m (14,700 ft.)

Durability

Disk can survive repeated 1.2m (4 ft.) drops

Archival rating: more than 30 years

Connectivity

Internal drive option: ATAPI, SATA

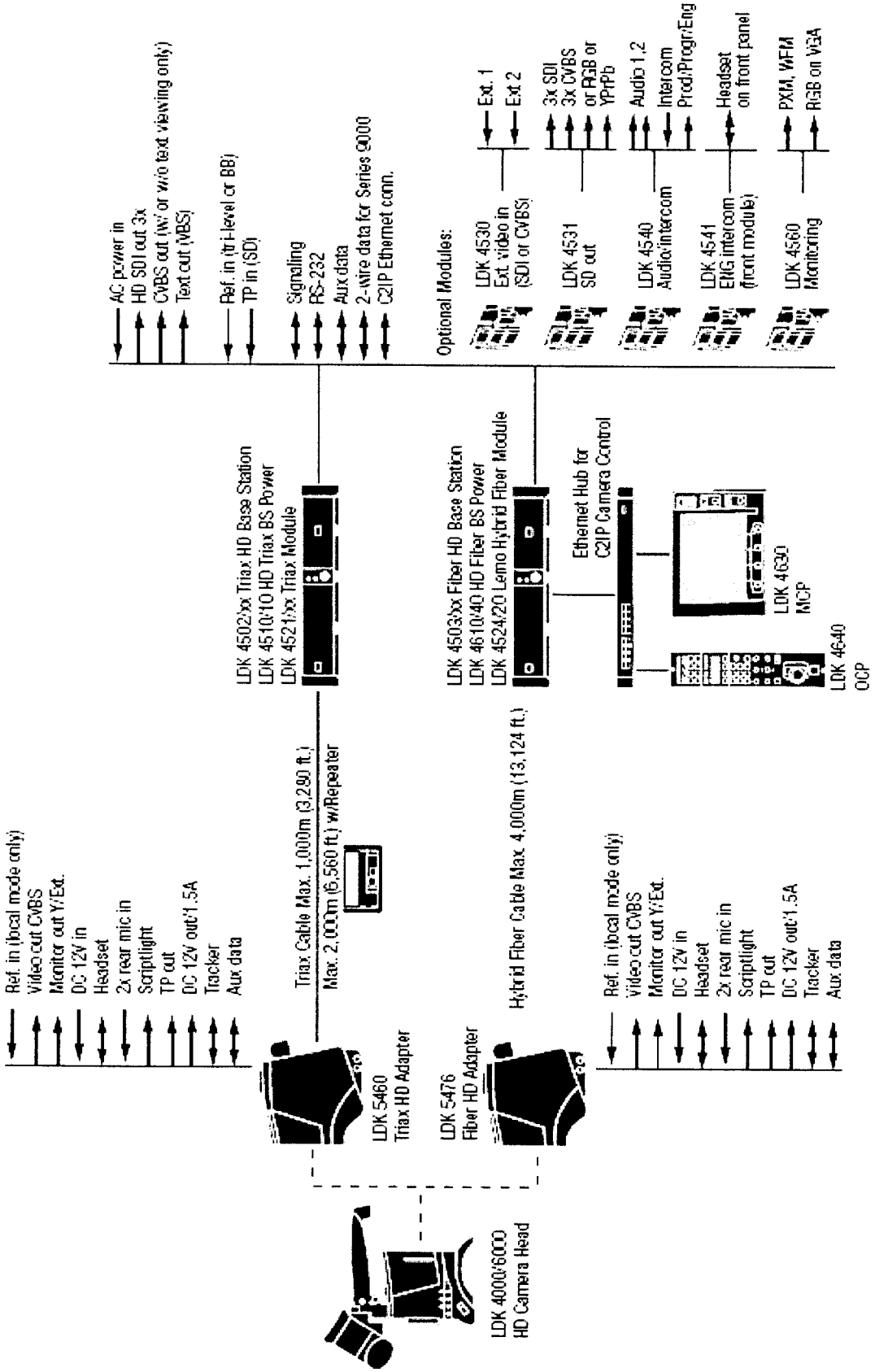
External drive option: USB 2.0, IEEE 1394 FireWire

** Temperature range may differ when media is used with the Grass Valley Infinity Digital Media Camcorder and Infinity Digital Media Recorder.*

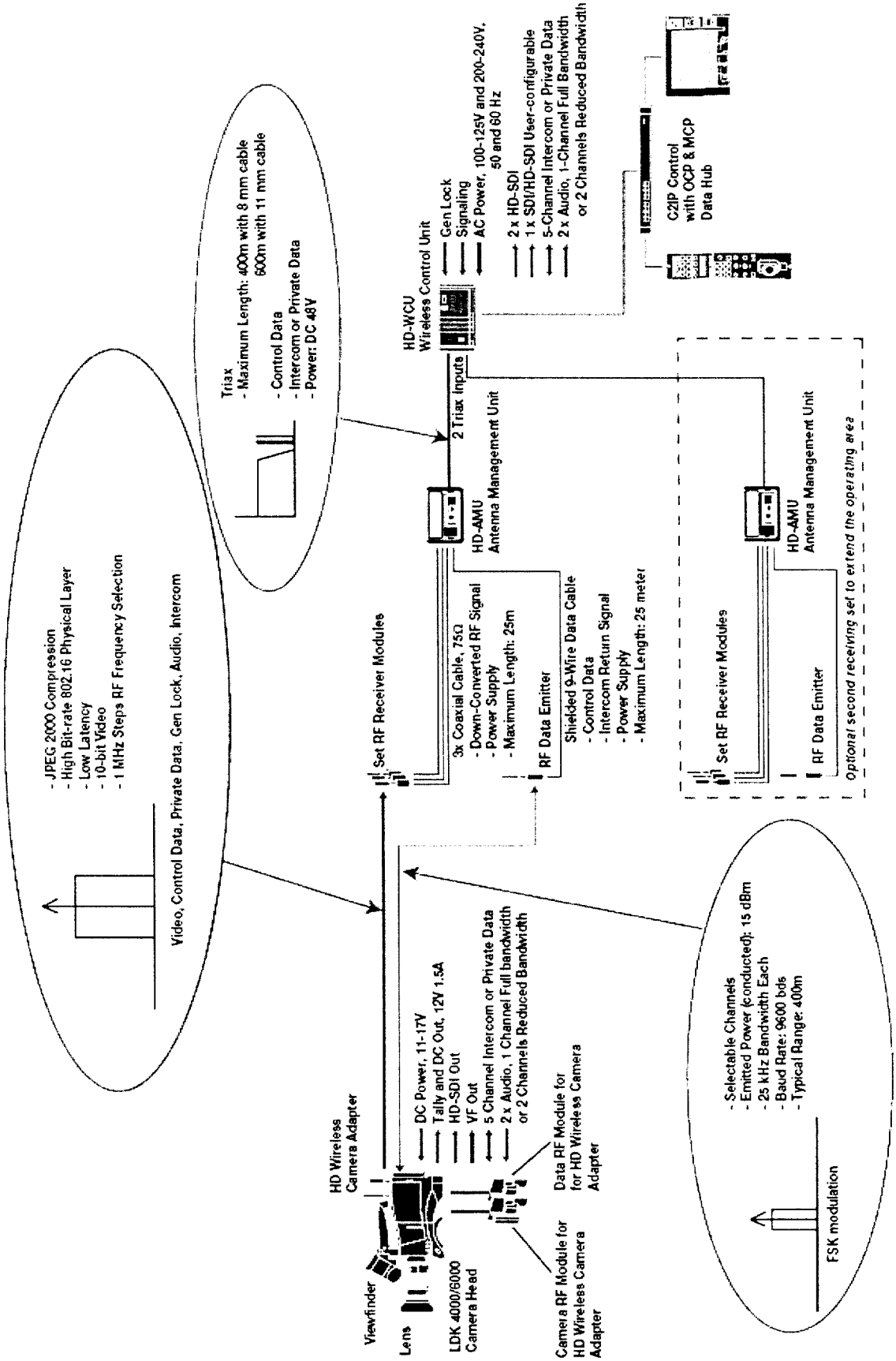
Record Time Comparison Of Common SD/HD Data Rates on REV PRO Media

Compression Format	Video Data Rate	Recording Time	Max File Transfer Speed
DV (SD)	25 Mb/s	>120 Minutes	Up to 8X
MPEG-2 (SD)	25 Mb/s	>120 Minutes	Up to 8X
MPEG-2 (SD/HD)	50 Mb/s	>60 Minutes	Up to 4X
JPEG 2000 (SD)	25 Mb/s	>120 Minutes	Up to 8X
JPEG 2000 (SD/HD)	50 Mb/s	>60 Minutes	Up to 4X
JPEG 2000 (HD)	75 Mb/s	>45 Minutes	Up to 2.5X

DOCUMENT C8 :
Synoptique des liaisons aux voies de commandes triaxiales et fibre optique

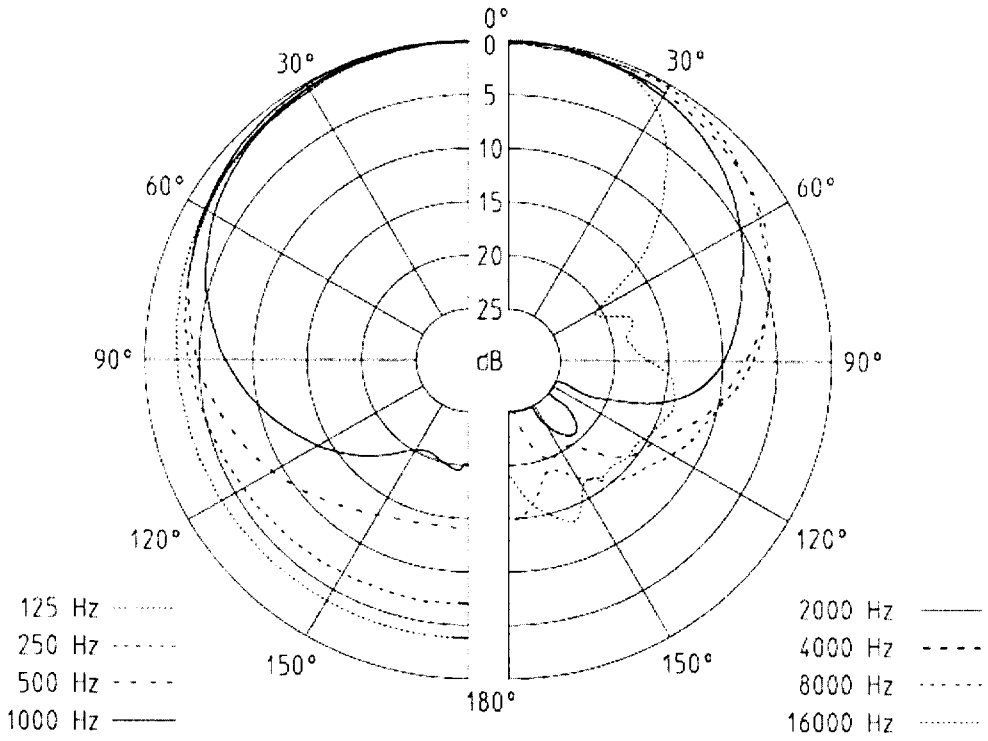


DOCUMENT C9 : Synoptique des liaisons aux voies de commandes HF

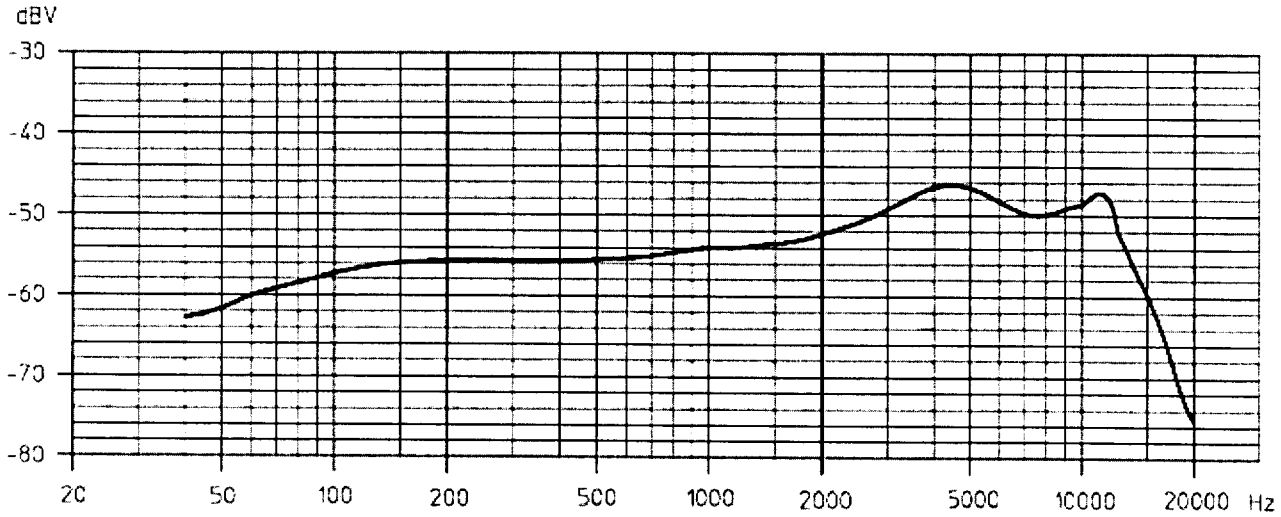


DOCUMENT D1 : Extrait des caractéristiques du microphone Sennheiser MD46

POLAR PATTERN



Nominal frequency response



DOCUMENT E1 : Extrait de la spécification du magnétoscope HDCAM-SR

Digital-Video Performance	
Sampling frequency	HDCAM-SR: Y: 74.25 MHz, Pb/Pr: 37.125 MHz, G/B/R: 74.25 MHz HDCAM*: Y: 74.25 MHz, Pb/Pr: 37.125 MHz
Quantization	10 bits/sample
Compression	HDCAM-SR: MPEG-4 Studio Profile HDCAM*: Coefficient Recording System
Channel coding	S-NRZ
Error correction	Reed-Solomon code
Error concealment	Adaptive three-dimensional
Analog Composite-Output Performance	
Bandwidth	Y: 0 to 5.75 MHz +5.0 dB/-3.0 dB
S/N ratio	56 dB or more
Y/C delay	15 ns or less
K Factor (2T Pulse)	1% or less
Output SCH phase	Based upon RS-170A/CCIR R.624-3
Digital-Audio Performance	
Sampling frequency	48 kHz (synchronized with video)
Quantization	HDCAM-SR: 24 bits/sample HDCAM*: 20 bits/sample
Wow & flutter	Below measurable level
Headroom	20/18/16/12 dB selectable
Analog Audio-Output Performance	
D/A quantization	24 bits/sample
Frequency response	20 Hz to 20 kHz, +0.5 dB/-1.0 dB (0 dB at 1 kHz)
Dynamic range	More than 100 dB (At 1dB at 1 kHz)
Distortion	Less than 0.05% (At 1 kHz, reference level)
Crosstalk	Less than -80 dB (At 1 kHz, between any two channels)
De-emphasis	T1 = 50 μs, T2 = 15 μs (auto on/off)