

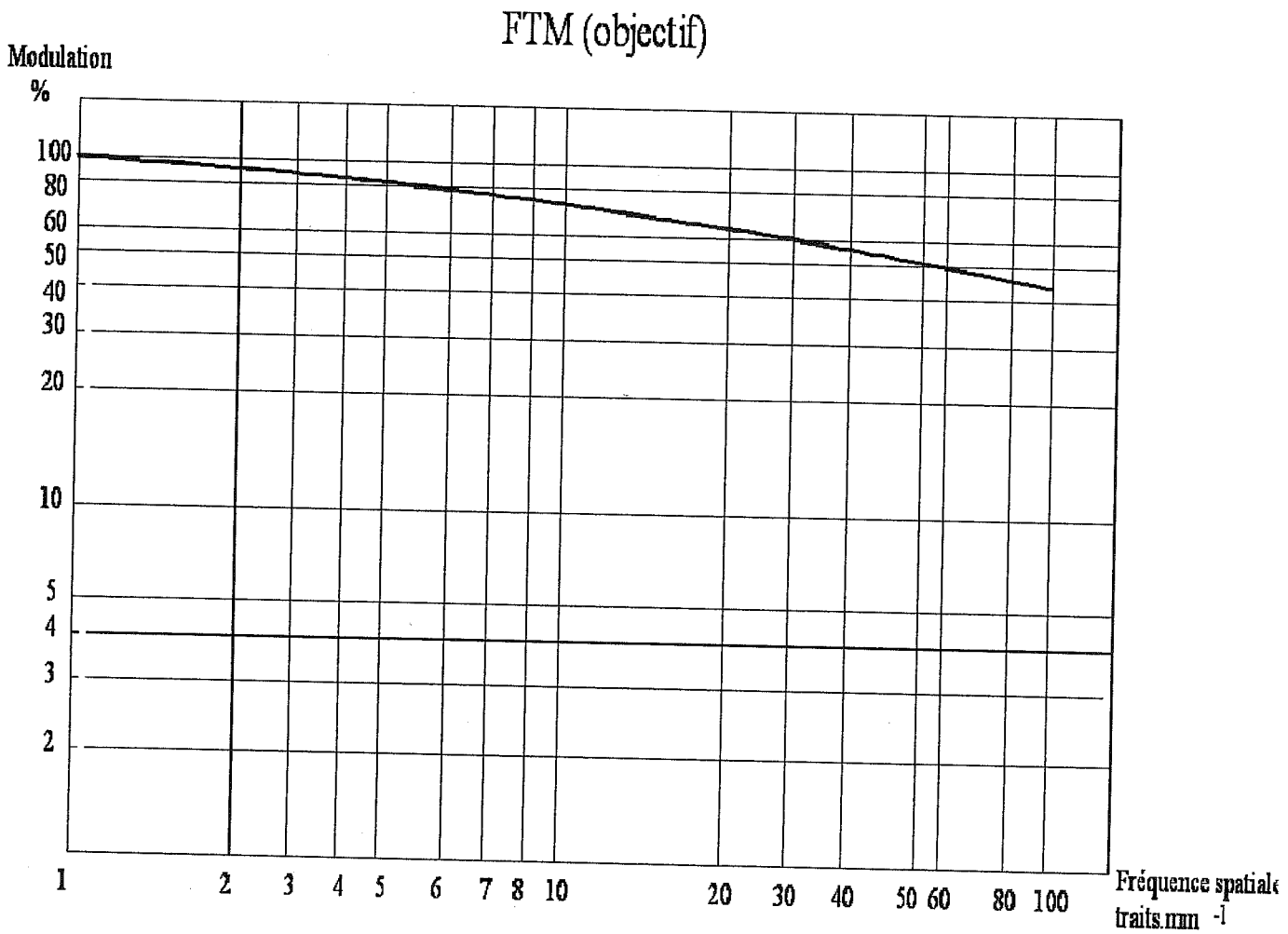
DOCUMENT N°1 : Spécifications XDCAM Camcorders

		PDW-510/510P (DV CAM)	PDW-530/530P (DV CAM/MPEG IMX)	
General	Mass Approx. 4.1 kg (9 lb) - 5.8kg(with VF, Mic, Disc, BP-GL95 battery) (12 lb 12 oz)			
	Power requirements DC 12 V +5.0 V/-1.0 V			
	Power consumption	Approx. 32 W (while recording, with viewfinder, color LCD off)		
	Operating temperature	-5 to 40 °C (+23 to +104 °F)		
	Storage temperature	-20 to +60 °C (-4 to +140 °F)		
	Humidity	10 to 90% (relative humidity)		
	Continuous operating time	Approx. 120 min. w/BP-GL95 battery		
	Recording format	Video	DV CAM (25 Mb/s)	MPEG IMX (50/40/30Mb/s), DV CAM (25 Mb/s)
		Proxy Video	MPEG-4	
		Audio	DV CAM: 4 ch/16 bits/48kHz	MPEG IMX:4 ch/16 bits/48 kHz, 4 ch/24bits/48 kHz DV CAM: 4 ch/16 bits/48 kHz
Proxy Audio		A-law (4ch, 8 bits, 8 kHz)		
Recording /Playback time	MPEG IMX	—	50 Mb/s:45 min, 40 Mb/s:55 min, 30 Mb/s:68 min	
	DV CAM	85 min.		
Signal inputs	Genlock video	BNC x1, 1.0 Vp-p, 75		
	Time code input	BNC x1, 0.5 to 18 Vp-p,		
	Audio input	XLR-3-31 x2, line / mic / mic+48V / AES/EBU selectable		
	Mic input	XLR-3-31 x1		
Signal outputs	Video output	BNC x1, 1.0 Vp-p, 75 Ω		
	Video test output	BNC x1, 1.0 Vp-p, 75 Ω		
	Time code output	BNC x1, 1.0 Vp-p, 75 Ω		
	Earphone	Mini-jack x2 (front: monaural, rear : stereo/monaural)		
	Audio output (CH-1/CH-2)	XLR-5-pin male (stereo)		
Other inputs/outputs	Lens	12-pin		
	Remote	8-pin		
	Light	2-pin, DC 12 V, max. 50 W		
	DC input	XLR-4-pin		
	DC output	4-pin (for wireless microphone receiver), DC 12 V (MAX 0.2A)		
	Camcorder adapter	40-pin		
	i.LINK	IEEE 1394, DV IN/OUT or File Access Mode, 6-pin x1		
Audio performance	Frequency	20 Hz to 20 kHz, +0.5 dB/-1.0 dB		
	Dynamic range	More than 85 dB		
	Distortion	Less than 0.08% (at 1 kHz, reference level)		
	Crosstalk	Less than -70 dB (at 1 kHz, reference level)		
	Wow & flutter	Below measurable		
	Head room	20 dB (ex-factory setting)		

DOCUMENT N°1 (suite)

Camera section	Pickup device	3-chip 2/3-inch type 16:9 widescreen Power HAD EX CCD	
	Total picture elements	NTSC model: 1038(H) x 1008(V) PAL model: 1038(H) x 1188(V)	
	Effective picture elements	NTSC model: 980(H) x 494(V) PAL model: 980(H) x 582(V)	
	Optical system	F1.4 prism	
	Built-in optical filters	1 : 3200K, 2 : 5600K+1/8ND, 3 : 5600K, 4 : 5600K 1/64ND	1 : Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND A : CROSS, B: 3200K, C: 4300K, D: 6300K
	Shutter speed	NTSC model: 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 (s) PAL model: 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000	
	Slow Shutter	NTSC model: 1/2 to 1/30 (s) PAL model: 1/2 to 1/25 (s) (1 to 8 and 16 frame accumulation)	
	Lens mount	2/3" 48 bayonet mount	
	Sensitivity (2000 lx, 89.9% reflectance)	F11 (typical)	
	Minimum illumination	Approx. 0.13 lx (F1.4 lens, +48 dB turbo gain, shutter off), approx. 0.008 lx (with 16-frame accumulation)	
	Gain selection	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB	
	Smear level	-140 dB (typical)	
	S/N ratio	NTSC model: 65 dB (typical) PAL model: 63 dB (typical)	
	Vertical resolution	NTSC model: 400 TV Lines/450 TV Lines(EVS) PAL model: 480 TV Lines/530 TV Lines(EVS)	
	Registration	0.05% (all zones, w/o lens)	
	Geometric distortion	Below measurable level (w/o lens)	
	Modulation depth at 5 MHz	70% (16:9, typical) / 55%(4:3, typical)	
Viewfinder	CRT	2.0-inch typeE monochrome	
	Controls	BRIGHT, CONTRAST, PEAKING controls, TALLY, ZEBRA, DISPLAY switches	
	Horizontal resolution	450 TV lines (16:9)	
	Microphone	Ultra-directional (detachable)	
Built-in LCD monitor		2.5-inch type color LCD monitor	

DOCUMENT N°2 :



DOCUMENT N°3 : ARRIFLEX D-21 HD – Technical Data

Camera type: 35 format film style HD camera with an optical viewfinder

Frame rate:

Mode	Setting	Camera Fps
HD Mode	HD422 (16:9)	1 - 30
	HD444 (16:9)	1 - 30
Mscope™	Mscope™ HD422 (4:3)	1 - 25

All frame rates are crystal controlled and can be set with 0.001 fps precision.

Frame rates other than the standard HD video frame rates of 23.976 PsF, 24 PsF, 25 PsF, 29.97 PsF and 30 PsF can be achieved with a recorder that can interpret the Variframe Flag.

Exposure compensated speed ramps are supported by the electronic mirror shutter.

- Aperture:** 23.760 x 13.365 mm/0.9354" x 0.5262" in HD Mode
23.760 x 17.820 mm/0.9354" x 0.7016" in Mscope™
- Lens mount:** 54 mm PL, adjusted for Super 35, with Lens Data System (LDS) contacts, Flange focal depth 52 mm nominal
- Display:** Camera display on left side with individual buttons for: camera RUN, PHASE (electronic inching & mirror rotation), LOCK, MODE, SEL and SET. Allows adjusting beeper volume, beeper at start and/or stop, enable/disable mirror shutter, mirror shutter angle, frame counter.
Video Menu over composite video output for control of operational parameters: HD Mode, frame rates, white balance and color matrix, signal output range, contrast characteristic and sensitivity.
- Shutter:** Spinning, electronically adjustable reflex mirror shutter.
Adjustable to 11.2°, 22.5°, 30°, 45°, 60°, 75°, 90°, 105°, 120°, 135°, 144°, 150°, 172.8° and 180°
- Viewfinder:** Optical reflex viewfinder with interchangeable ground glass. Spherical or universal (adjustable to spherical or anamorphic) viewfinders available. Viewfinders are adjustable in two axes with automatic or manual image compensation, laterally extendable for left eye operation and show illuminated frame lines (ARRIGLOW, adjustable in brightness). Optional medium or long finder extender including magnifier. Optional heated eyecup.
- Video assist:** SD monitoring (PAL/NTSC video downscaled from captured image) with composite video or S-Video outputs
- Signal output:** HD Mode – HD-SDI (SMPTE 292M):
- 1920 x 1080 4:2:2 YCbCr 10 bit @23.976, 24, 25, 29.97, 30 PsF
HD Mode – Dual link HD-SDI (SMPTE 372M):
- 1920 x 1080 4:4:4 RGB 10 bit @23.976, 24, 25, 29.97, 30 PsF
Mscope™ – dual link HD-SDI (SMPTE 372M):
- 1920 x 1080 4:2:2 YCbCr 10 bit @23.976, 24, 25 PsF
- Recording:** HD recording devices supporting HD-SDI (SMPTE 292M) or dual link HD-SDI (SMPTE 372M)* signals for HD Mode operation. Optional on-board HD recording using solid-state memory recorder Flash Mag.
- Connections:** 1x dual link HD-SDI out, 2x composite video out (CVBS), 1x S-Video out (Y/C), 1x power in (BAT), 1x 12 V accessory power out (Fisher 11-pin), 1x 24 V accessory power out (RS), 1x lens data display (LDD), 2x lens control system bus (LCS), 1x accessory interface (ACC), 1x camera control unit (CCU), 1 each focus, iris, zoom for lens motors.