

# HDCAM VIDEOCASSETTE



The **Maxell** HDCAM videotape attains HDTV recording by increasing recording density to 1.4 times more than the Digital Betacam format, offering superior quality digital HD picture for a wide range of applications from transmission to HD ENG/EFP, which is enabled by its high mobility compact cassette size.

**Lower Error Rate:** Compared to Digital Betacam, HDCAM employs even finer 0.1 $\mu$ m NEW Ceramic Armor Metal magnetic particles. Combining this with **Maxell's** unique multi-orientation technology to effectively utilize its high magnetic energy, **Maxell** has achieved a remarkable high output and low noise HDCAM videotape. Low error rate is also reached by achieving superior C/N characteristics.

**Superior Durability:** Magnetic coating layer strength is remarkably improved by the super fine Ceramic Armor Metal particles and high performance three dimensional cross-linking binder systems. This allows superior reliability and durability of the tape in extreme environment acquisition (ENG/EFP) and editing operations where long-term still modes are frequently used. The low error rate characteristic is maintained under various operating conditions.

**Superior Storage Stability Characteristics:** The combination of **Maxell's** original super fine Ceramic Armor Metal particles and high performance binder systems allow superior anti-heat resistance and anti-oxidation characteristics. The addition of another unique process of minimizing tape shrinkage achieves superior stability characteristics suitable for long term storage such as video archiving.

## Technical Data

	Item	Unit	Typical Value
Physical Properties:	Tape width	mm	12.65
	Total tape thickness	$\mu$ m	13.8
	Magnetic layer thickness	$\mu$ m	3.0
	Base film thickness	$\mu$ m	10.0
	Backcoating thickness	$\mu$ m	0.8
	Yield strength	N (kgf)	25 (2.6)
	Breaking tensile strength	N (kgf)	49 (5.0)
	Residual elongation	%	0.07
	Mag. surface elec. resistance	$\Omega$ /sq.	$1 \times 10^{10}$
	Magnetic Properties:	Coercivity (Hc)	kA/m (Oe)
Retentivity (Br)		mT (G)	280 (2800)
Squareness ratio (Br/Bm)		--	0.85
Optimum recording current		%	100
Video Properties:	RF output (47 MHz)	dB	0*
	C/N*	dB	0*

\* Compared with Maxell reference tape.

## Line up

Item No.	Description	Tape Length (m) (ft)	Recording Time (min)	Cassette Dimensions (mm)	Case Dimension (mm)	Carton Quantities
292890	B-6HD	43 141	6	254x145x25	271x162x33	10
292880	B-12HD	78 256	12			10
292870	B-22HD	136 446	22			10
292860	B-32HD	195 640	32			10
292850	B-40HD	241 791	40			10
292845	B-34HDL	206 676	34			10
292840	B-64HDL	382 1253	64	156x96x25	172x111x33	10
292830	B-94HDL	557 1827	94			10
292820	B-124HDL	732 2402	124			10

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