

SONY

HDCAM

High Density Recording For A New Digital Age

Powerful, cost effective and easy to use, HDCAM format is a worthy successor to Digital Betacam. Designed to meet the needs of the global film industry in the twenty-first century, HDCAM features frame rate switchability and the High Definition Common Image format (1920 x 1080 active pixels) to provide a single product line solution for all HDTV and SDTV requirements. To ensure consistently reliable recordings from this groundbreaking film production system, Sony has also developed a new high-performance HDCAM tape format.

BCT-HD Series

Small cassettes

BCT-6HD
BCT-12HD
BCT-22HD
BCT-32HD
BCT-40HD

Large cassettes

BCT-34HDL
BCT-64HDL
BCT-94HDL
BCT-124HDL

Cleaning cassette

BCT-HD12CL

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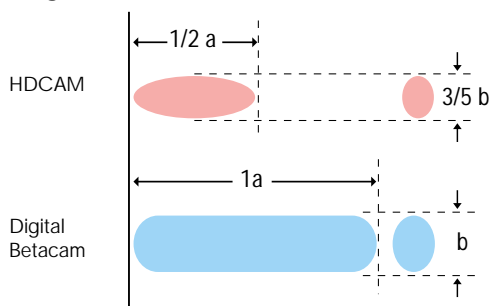
Advanced Metal Tape Technology

At the heart of HDCAM tape is Sony's renowned Advanced Metal Tape technology, a double Emmy Award winner for Metal Broadcasting Tape in 1990 and Digital Betacam Metal Tape in 1995. Designed to get the very best out of the HDCAM format, the new tape provides high density recording with a wavelength of $0.49\mu\text{m}$ and a recording duration of 22-40 minutes using small cassettes or 64-124 minutes using large cassettes.

Setting New Standards in High-Density Recording

HDCAM redefines high density digital recording performance for a new age of film production. Sony has developed magnetic particles half the size of those used in conventional Digital Betacam tape to ensure stable recording and playback at the format's shortest wavelength of $0.49\mu\text{m}$. With high density packing of these ultra-fine metal magnetic particles and the use of new calendering technology for a super smooth tape surface, HDCAM tape delivers an exceptional C/N ratio of more than 45dB.

Magnetic Particle Size



Developed for Demanding Applications

Incorporating an evolution of the highly successful binder used in Digital Betacam media, the new HDCAM tape achieves outstanding durability and is ideal for the latest professional production applications. A new lubricant protects the tape surface and ensures optimum contact with the recording head.

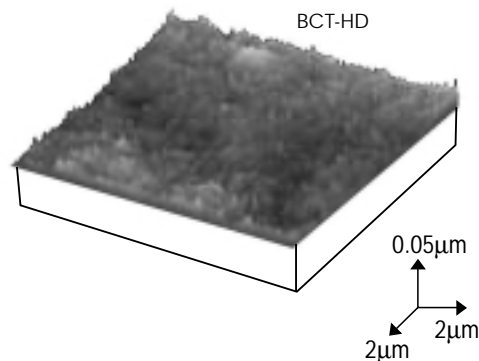
Great for Archiving

Broadcasters rely on their archives. HDCAM metal tape particles are coated in a unique alumina silica protective layer to ensure superb anti-oxidising characteristics. Furthermore, a proprietary system reduces tape shrinkage over time and provides precise tracking and playback, even after many years of storage.

Designed for Maximum Impact

HDCAM tape is bold and distinctive, both inside and out. A bright orange anti-static lid and dark grey shell make these cassettes easily identifiable on studio shelves. The ribbed interior case design controls reel position and guards against accidental shocks, while a double-layer construction of the case cover hinge prevents the accumulation of dust and other foreign particles.

Surface Roughness



Physical properties

Item	Unit	Typical value BCT-HD
Thickness: Base	μm	10.0
Thickness: Backcoating	μm	1.0
Thickness: Magnetic layer	μm	3.0
Thickness: Total	μm	14.0
Width	mm	12.65

Magnetic properties

Item	Unit	Typical value
Intrinsic coercivity (Hc)	kA/m	132
Retentivity (Br)	mT	290
Squareness (Br/Bm)	-	0.83

Video and Audio performance *

Item	Unit	Typical value
RF playback output	dB	0
C/N	dB	0
Sensitivity	dB	0
Frequency response	dB	0
Audio S/N	dB	0

* Compared with Sony reference tape

BCT-HD Series Line-up

Model	Playing time (min.)	Tape length (m)	Weight* (g)	Master Carton Quantity	Master Carton Weight (kg)
BCT-6HD	6	43	260	50	14.9
BCT-12HD	12	78	270	50	15.4
BCT-22HD	22	136	277	50	15.8
BCT-32HD	32	195	295	50	16.7
BCT-40HD	40	241	308	50	17.3
BCT-34HDL	34	206	630	10	6.8
BCT-64HDL	64	382	677	10	7.3
BCT-94HDL	94	557	728	10	7.8
BCT-124HDL	124	732	780	10	8.3
BCT-HD12CL	12	78	275	40	12.3

* with case