

D5001

D-5

Digital Videocassettes

The ultimate in high-quality D-5 digital video performance

Broadcasters and production professionals who work with uncompressed digital recording formats expect the highest levels of performance from their recording media. And with Fujifilm D5001 1/2-inch digital metal videocassettes, that's exactly what they get – uncompromising audio and video quality.

An Ideal Choice for Uncompressed Digital Recording

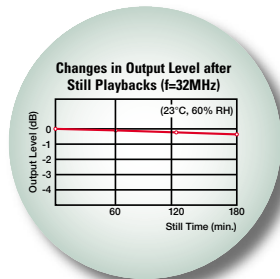
Fujifilm D5001 videocassettes are designed to get the best out of today's 10-bit digital component recording systems. Thanks to ultra-fine, high-output metal magnetic particles and superior Fujifilm calendaring technology, the surface of the tape is mirror-smooth. Therefore, head contact is excellent, with minimal noise and low error rates. The result is a high C/N ratio, particularly in the short wavelength range that is essential for high-density digital recording.

Superior Durability & Transport Stability

Fujifilm D5001 videotape uses a high-adhesion binder material to assure outstanding reliability and minimal head clogging — even during extended still and high-speed shuttle operation. On long-playing 63M and 124L cassettes, durability is enhanced by an ultra-strong PEN (polyethylene naphthalate) base film that is exceptionally resistant to stretching and deformation. The backcoating material contributes to stable tape transport by keeping the friction coefficient low under the most demanding operating conditions.

Excellent Long-Term Storage Characteristics

Ultra-fine metal magnetic particles are coated with a powerful antioxidant to ensure that magnetic performance and output remain high even after



long-term storage. In addition, our exclusive production technologies and high-quality base materials prevent the tape shrinkage that can cause tracking errors.

High-Rigidity Precision Cassette Shells

High-rigidity cassette shells are precision-crafted to protect tape under adverse operating conditions. Tape transport remains stable because the tape is protected from deformation and damage, and the error rate remains low because dust and dirt cannot enter the shell. Cassettes are also equipped with two sliding plugs which can be used to individually protect the control and video signals against erasure.

D5001 Technical Data

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Magnetic Properties	
Coercivity (Hc)	127.3 kA/m (1,600 Oe)
Retentivity (Br)	265 mT (2,650 Gauss)
Physical Properties	
Tape Thickness: Total	13.5 μm
Magnetic Layer	3.1 μm
Tape Width	12.65 mm
Yield Strength	27 N (2.8 kg)
Breaking Tensile Strength	39 N (4.0 kg)
Residual Elongation	Less than 0.18 %
Performance	
Video RF Output	0 dB*
Video C/N	0 dB*
Audio Sensitivity	0 dB*
Audio Frequency Response	0 dB*

Note: Figures are typical values of 33M tape based on Fujifilm's standard measurement procedures. The figures marked with * are comparisons with the Fujifilm reference tape.