Mini DV Digital Videocassette

DVCassette
High-Density Digital Recording Demands High Output and High C/N Ratio Characteristics

Compared to analog recording, the high-density digital recording of the Mini DV (Digital Video) system requires a tremendous amount of signal data. The thin cobalt-vacuum-evaporated magnetic layer of FUJIFILM’s Mini DVCassette tape results in high energy levels with retentivity of 450mT and coercivity of 120kA/m for high-output digital video recording.

The DLC (Diamond-Like Carbon) Protective Layer Ensures Excellent Durability for Reliable Performance

The DLC protective layer was specially formulated to safeguard the high performance of the cobalt-evaporated magnetic layer. Its diamond-like resilience offers superior wear resistance and when combined with the lubricant layer presents an impenetrable barrier to moisture, allowing high output to be maintained even after repeated playback. And the low-friction coefficient of the lubricant layer provides stable tape transport under a wide range of environments.

The Low Error Rate Enhances the Precision of Recording and Playback

The high-output characteristics of the thin cobalt-evaporated magnetic layer provide a wide margin of error while the stable head-to-tape contact and ultra-smooth magnetic layer significantly reduce spacing loss for a low error rate even in the short-wavelength range.

A Unique Cassette-Case Design Safeguards this High-Performance Tape

The design of the tightly sealed cassette shell inhibits the adhesion of dust and dirt. The three-lid structure ensures opening and closing involves the minimum of movement for exceptional sealing performance, and to achieve the precision required by the Mini DV system, a reel-lock feature prevents slack developing in the tape.

DVCassette Technical Data

<table>
<thead>
<tr>
<th>Magnetic Properties</th>
<th>Physical Properties</th>
<th>Recording Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coercivity (Hc)</td>
<td>Tape Width</td>
<td>Optimum Recording Current</td>
</tr>
<tr>
<td>120 kA/m</td>
<td>6.35 mm</td>
<td>-1 dB</td>
</tr>
<tr>
<td>Retentivity (Br)</td>
<td>Tape Thickness</td>
<td>Data Signal Output Level (21 MHz)</td>
</tr>
<tr>
<td>400 mT</td>
<td>7 µm</td>
<td>More than -1 dB</td>
</tr>
<tr>
<td>Squareness (Br / Bm)</td>
<td>Transparency</td>
<td>Frequency Response at 21 MHz / 10.5 MHz</td>
</tr>
<tr>
<td>0.8</td>
<td>Less than 6 %</td>
<td>-2 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overwrite Level at 21 MHz / 10.5 MHz</td>
</tr>
</tbody>
</table>

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FUJI PHOTO FILM CO., LTD.
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
Fuji Photo Film U.S.A., Inc.
Magnetic Markets Division 200 Summit Lake Drive, 2nd Floor Valhalla, New York 10595, U.S.A.
Fuji Photo Film Canada Inc.
600 Suffolk Court Mississauga, Ontario, L5R 4G4, Canada
Fuji Photo Film do Brasil Ltda.
Avenida Vereador Jose Diniz 3460, Campo Belo, Sao Paulo, CEP 04604-901, SP, Brasil
Fuji Magnetics G.m.b.H.
Fujistrasse 1, D-47533 Kleve, Germany
Fuji Photo Film (UK) Ltd.
Fuji Film House, 120 Finchley Road, Swiss Cottage, London NW3 6HY, U.K.
FUJIFILM Regional Services (Singapore) Pte Ltd.
10 New Industrial Road Singapore 56021

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