A first-of-its-kind! Film Stock
Designed for Digital Intermediate Work

Fujicolor Eterna Film Stock
for Digital Intermediate

Ref. No. KB-0704E (SK) Printed in Japan © 2007 FUJIFILM Corporation
An industry first! Motion picture film stock developed specifically for production of intermediate prints from digital film recorder data!

Fujicolor ETERNA-RDI is the first film stock designed specifically for use in the digital intermediate workflow. It is designed to reproduce all the fine detail images.

**Fujicolor Recording Film**

**ETERNA-RDI**

**Recording film exclusively for the digital intermediate process**

ETERNA-RDI offers a significant improvement over conventional non-specific intermediate film stocks, producing fine detail and accurate color from digital image data.

### [ETERNA-RDI: Features]

- **Exceptional sharpness**
  - ETERNA-RDI has the ability to record the rich range of detail that characterizes digital images. Duplicate prints, produced from ETERNA-RDI on improved ETERNA-CI intermediate stock, are also characterized by superb color, and sharpness.

- **Significant reduction of color cross talk**
  - Practical exposure latitude has been expanded by the incorporation of new technology to prevent spectral color cross talk.

- **Expanded latitude and linearity**
  - Photographic properties were extensively revised to yield enhanced linearity and expanded latitude. (Above base density 2.2 by Status M)

- **Transparent antistatic layer for enhanced printability (POLYESTER BASE TYPE 4511)**
  - The durable polyester film base is backed with a transparent antistatic layer that eliminates static buildup and minimizes adhesion of dust particles, enhancing printability and consistently producing clean, sharp prints. This property is still effective even after processing.

### [Film Structure]

Three emulsion layers which are respectively sensitive to red, green, and blue light are coated on a safety base together with yellow filter, protective, and other layers, and each emulsion layer is again a stack of three emulsion layers designed to achieve extremely fine grain and a full range of tones. The emulsion layers which contain various ingredients required to record an image, such as light-capturing silver halides and dye-forming couplers, form dye images and an orange-colored mask image when exposed to light and processed. This color mask image plays an important role in making color release prints of excellent color reproduction. There is an anti-halation layer provided between the base and the emulsion layers, and a black backing layer is provided on the other side of the film base to provide anti-halation, anti-static, and anti-scratch properties and surface lubrication. This backing is removed during processing (TRACETATE BASE Type 8511). The film structure is schematically represented below.

### [Base Safelight]

Clear safety base (TAC) or polyester base (PET) is used. This film should be handled in total darkness.

### [Digital Recording]

The recommended code values for a digital LAD patch are:

<table>
<thead>
<tr>
<th>Code value</th>
<th>Code value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>100</td>
</tr>
<tr>
<td>Red</td>
<td>100</td>
</tr>
<tr>
<td>Green</td>
<td>200</td>
</tr>
</tbody>
</table>

**Processing**

This film is to be processed with Process ECN-2 and formulae published by Eastman KODAK for Eastman Color Negative Film. In the bleaching step, persulfate bleach, ferricyanide bleach or PDTA-ferric bleach (UL bleach) is used.

### [Edge Markings]

The MPL CODE system (key number, film identification code (FD), marking resistant bar code, format code, full film, film number, film number frame mark) is printed as latent images.

### [Raw Stock Storage]

Like other color films, Fujicolor Recording Film ETERNA-RDI Types may undergo certain changes in photographic properties during storage. Since these changes can be accelerated by heat and moisture, we recommend that new stock be stored unexposed at temperatures below 10°C (50°F).

Any package that has been taken out of cold storage should remain sealed until it reaches equilibrium with ambient temperature. If packages are opened too soon, moisture condensation on the film surfaces may occur.

### [Exposed Film Handling]

If exposed films cannot be processed within three days of exposure, they should be stored at temperatures below 10°C (50°F) and processed as soon as circumstances permit.

### [Processed Film Storage]

Fujicolor Recording Film ETERNA-RDI Types are designed to resist color fading, but high temperatures and humidity accelerate changes in image quality. These conditions may affect the excellent film base durability. To avoid such changes, processed films should be kept at a temperature of 15°C (59°F) with 35% to 40% RH for long-term storage (about 100 years), and at a temperature of 20°C (68°F) with 40% to 50% RH for medium-term storage (about 50 years). In addition, it is recommended that processed films in storage be checked by visual inspection for changes (e.g., deterioration, color fading, adhesion, mold), and by applying for color of aromatic acid at intervals of a few years.

### [Packaging Units and Perforations]

<table>
<thead>
<tr>
<th>Film Length</th>
<th>Core / Spool</th>
<th>Package Length</th>
<th>Film Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 x 50 mm</td>
<td>305 m (Cellulose triacetate base)</td>
<td>305 m (Cellulose triacetate base)</td>
<td></td>
</tr>
<tr>
<td>35 x 75 mm</td>
<td>305 m (Cellulose triacetate base)</td>
<td>610 m (Cellulose triacetate base)</td>
<td></td>
</tr>
<tr>
<td>35 x 50 mm</td>
<td>610 m (Polyester base)</td>
<td>610 m (Polyester base)</td>
<td></td>
</tr>
<tr>
<td>35 x 75 mm</td>
<td>610 m (Polyester base)</td>
<td>610 m (Polyester base)</td>
<td></td>
</tr>
</tbody>
</table>

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**Fujicolor Motion Picture Film**

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