



picture your future...

# FG PLUS Family Color Print Film



**FG100 PLUS**  
**FG200 PLUS**  
**FG400 PLUS**  
**FG800 PLUS**

**Ferrania**  
Imaging Technologies

## introducing the FG PLUS generation

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**Picture your future ... the future of color print films is available today.**

Brilliant colors, beautiful tones, fine grain, image perfection ... These are just a few of the qualities which describe the new FG PLUS family of films. The result of a multi-million dollar research and development program, these bright, bold, new-generation films represents a major breakthrough in color print film technology.

The technological innovations incorporated in the new FG PLUS films include enhanced emulsion stability, optimized spectral sensitivity and new patented silver halide crystal formation techniques yielding faster speeds, finer grain and sharper pictures. Pictures produced from these films today and years from today will exhibit the same true-to-life colors your customers will treasure.

Demanding amateur and professional photographers alike will appreciate FG PLUS color print film's brighter, more saturated colors; its excellent image quality, contrast and sharpness; and its forgiving exposure latitude which produces better pictures even when underexposed.

Processors, photofinishers and minilabs will appreciate FG PLUS' improved handling characteristics, processing and printing compatibility and excellent enlargement capability.



Ferrania Imaging Technologies  
FG PLUS family of films: quality,  
consistency, reliability and value. We  
deliver everything you would expect  
from a great film.



# innovations that will enhance your professional image

## Brighter colors, natural skin tones

Advanced silver halide formulations with a high speed-to-grain ratio give the FG PLUS family of color print films superior color and optical qualities. New high-efficiency emulsions with high-performance color formers give you rich, vivid colors.

## Excellent color saturation, contrast

New "Extra" Developer Inhibitor Release (DIR) couplers combined with innovative masking and high efficiency light filtration techniques ensure excellent color saturation and contrast making FG PLUS the ideal "all light" condition film, and a perfect choice for use in compact, SLR and ready-to-use cameras.

## Finer grain, increased sharpness, better enlargements

FG PLUS' new, patented core-shell laminar grain, based on special complexes of different halides, balances the highest speed with the smallest grain structures, producing exceptionally clear and sharp images with excellent reproduction of details even when enlarged.

## Improved performance, consistent results

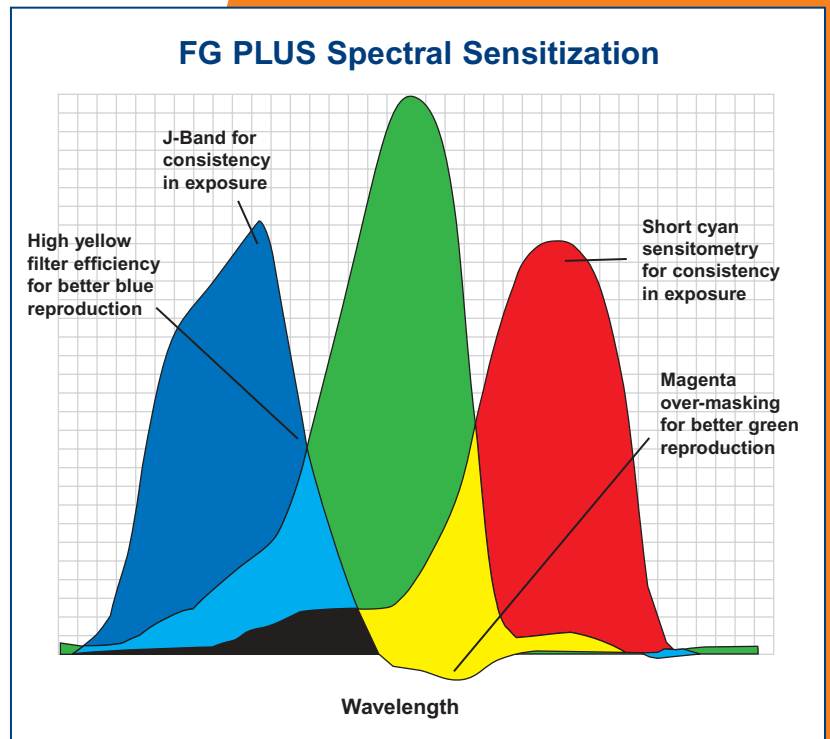
Optimized spectral sensitization provides excellent performance in a wide range of natural and artificial lighting conditions resulting in more consistent color balance in prints.

## Wider exposure latitude

Efficient emulsions give FG PLUS color print films a wide exposure latitude that considerably improves results in over or under exposures.

## Enhanced processing latitude, dye stability, printing compatibility

FG PLUS films are designed to perform well even in marginal processing, environmental or handling conditions. Spectral sensitivities are aligned to current market conditions yielding consistent print quality.



## FG PLUS product features

Features	Advantages	Benefits
<ul style="list-style-type: none"> <li>Optimized film speeds <i>High Speed (400 &amp; 800)</i></li> </ul>	<ul style="list-style-type: none"> <li>Work well in all light conditions — user friendly</li> <li>Wider exposure latitude</li> <li>Faster shutter speeds</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> fewer underexposed frames; great films for low-light and action photography</li> <li><b>Retailer:</b> excellent results in ready-to-use cameras</li> <li><b>Laboratory:</b> increase in saleable prints — less waste</li> </ul>
<ul style="list-style-type: none"> <li>Optimized film speeds <i>Medium Speed (100 &amp; 200)</i></li> </ul>	<ul style="list-style-type: none"> <li>Wide exposure latitude</li> <li>Fewer underexposed frames</li> <li>User friendly</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> ideal for compact and SLR cameras</li> <li><b>Retailer:</b> quality product offering</li> <li><b>Laboratory:</b> increase in saleable prints — less waste</li> </ul>
<ul style="list-style-type: none"> <li>Finer grain and increased sharpness</li> </ul>	<ul style="list-style-type: none"> <li>Fine grain and detail at all levels of exposure and in critical situations</li> <li>Good quality enlargements</li> <li>Excellent reproduction of fine details</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> sharper images, highly detailed pictures, more opportunities for enlargements</li> <li><b>Retailer/Laboratory:</b> increase in reprint and enlargement volume</li> </ul>
<ul style="list-style-type: none"> <li>Enhanced tonal and color reproduction</li> </ul>	<ul style="list-style-type: none"> <li>Excellent print contrast</li> <li>Superior color saturation</li> <li>New multi-dimensional depth effect</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> superb detail in highlights and shadows, rich tonal range even on cloudy days; bright colors and natural skin tones</li> <li><b>Retailer/Laboratory:</b> premium quality results</li> </ul>
<ul style="list-style-type: none"> <li>Optimized spectral sensitivity</li> </ul>	<ul style="list-style-type: none"> <li>Exceptional performance in a wide range of natural and artificial lighting conditions</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> lifelike reproduction of subtle and natural colors under a wide variety of outdoor and indoor lighting conditions</li> <li><b>Retailer:</b> increased customer satisfaction</li> <li><b>Laboratory:</b> good first run printing results from diverse lighting conditions</li> </ul>
<ul style="list-style-type: none"> <li>Excellent aging and robustness characteristics</li> </ul>	<ul style="list-style-type: none"> <li>Enhanced stability of exposed and unexposed films; greater stability when exposed to chemical fumes, high humidity and high temperatures</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> better color consistency; more consistent results in marginal keeping and storage conditions</li> <li><b>Retailer:</b> tolerant to consumer mishandling</li> <li><b>Laboratory:</b> faster and more uniform printing</li> </ul>
<ul style="list-style-type: none"> <li>Greater printing compatibility</li> </ul>	<ul style="list-style-type: none"> <li>Closer alignment of spectral dye characteristics to market conditions for printer set-up</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> good, consistent picture quality</li> <li><b>Laboratory:</b> excellent equipment integration for easier printer set-up and printing; consistent quality in minilabs; higher productivity</li> </ul>
<ul style="list-style-type: none"> <li>Greater processing latitude</li> </ul>	<ul style="list-style-type: none"> <li>Good performance in marginal processing conditions</li> </ul>	<ul style="list-style-type: none"> <li>Overall consistency and excellence in print quality</li> </ul>
<ul style="list-style-type: none"> <li>Optimized digital properties</li> </ul>	<ul style="list-style-type: none"> <li>Excellent scans from either the color negative or the finished print</li> </ul>	<ul style="list-style-type: none"> <li><b>Consumer:</b> ideal for home scanning and inkjet printing</li> <li><b>Laboratory:</b> digital service provider — client satisfaction</li> </ul>

# new technologies for a new image quality

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## Finer grain and increased sharpness

### Structured Homogeneous Crystals™ (SHC) and Ultra Thin Layers™ (UTL) Technologies

- Clear, sharp images
- Excellent reproduction of details even when enlarged
- Wide exposure latitude
- Consistent C-41 processing

SHC™ and UTL™ Technologies are based on special construction of different silver halide crystals and on optimum minimum film thickness, leading to a balance of high light sensitivity with small grain.

In the Ferrania laboratories, basic emulsion research has been dedicated to the development of the new silver halide crystals technology, SHC™. The specific objectives were to increase the sensitivity to light, guarantee ease of processing in all C-41 chemistry, and to assure a stable latent image formation under the most variable consumer film use conditions.

SHC™ Technology makes it possible to produce crystals having a specific composition from the inner core to the outer most layer of the crystal itself. Complex, computer-controlled manufacturing processes ensure very consistent large-scale production of the many different emulsions needed to formulate FG PLUS color print films.

A specific new Yellow layer emulsion has been developed to reduce both the reflectance in the visible range and the angle of scattering, assuring a higher transparency of the layer to red and green transmitted light and therefore better optical properties.

FG PLUS has a high sensitivity to light, while delivering excellent optical characteristics both for sharpness and grain. This film also will react well when processed using under-active developers, ensuring the speed and wide exposure latitude needed for consumer applications.

## Precise color reproduction

### Accurate Colors™ (AC) Technology

- Bright, saturated colors
- Rich tonal range in all picture-taking situations
- 3D color depth effect on prints
- Warm natural skin tones

End users will definitely enjoy precise color reproduction in their prints and a dramatically reduced color cast when film is exposed with flash and/or mixed lights. When developing the AC™ Technology, Ferrania Imaging Technologies put the focus on color reproduction in such areas as skin tones, sky, sea water, grays, and green grass. The results of these innovations deliver products that meet and exceed the expectations of the market place.

**New DIR coupler distribution:** DIR couplers are used to optimize the speed/grain ratio and to control the reproduction of saturated colors.

**New Yellow filter:** a new formulated yellow filter is used to reduce the yellow minimum density increase, typical of silver formulated yellow filters, and to assure at the same time high transparency for the sensitive green layer.

**New UV trimmer:** cuts down the UV component which may cause a blue cast in UV-rich scenes.

**Spectral Sensitivity:** RGB spectral sensitizers, combined with the masking technology, produce precise peak positioning of the spectral sensitizers of the film. The result is pleasant colorful prints when films are exposed with various light sources, such as flash, sunrise, sunset or mixed lights.



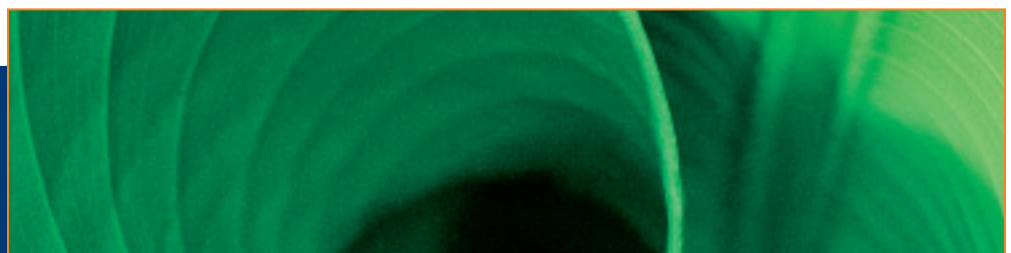
# FG PLUS film use guide

	FG100 PLUS 135 Color Print Film	FG200 PLUS 135 Color Print Film	FG400 PLUS 135 Color Print Film	FG800 PLUS 135 Color Print Film
<b>Light conditions</b>				
<i>bright sunny days</i>	● ● ●	● ● ●	● ● ●	● ● ●
<i>cloudy sky</i>	● ● ●	● ● ●	● ● ●	● ● ●
<i>rainy day</i>	●	● ●	● ● ●	● ● ●
<i>indoor use without flash</i>	●	●	● ●	● ● ●
<b>Movement of the subject</b>				
<i>fast action</i>	●	●	● ●	● ● ●
<b>Flash</b>				
<i>close up</i>	● ● ●	● ● ●	● ● ●	● ●
<i>distant</i>	●	●	● ●	● ● ●
<i>with depth of field</i>	●	●	● ●	● ● ●
<b>Lens</b>				
<i>Single Lens Reflex</i>	● ● ●	● ● ●	● ● ●	● ● ●
<i>Compact</i>	● ●	● ● ●	● ● ●	● ●
<i>Zoom</i>	●	● ●	● ● ●	● ● ●
<i>Telephoto</i>	●	● ●	● ●	● ● ●
<b>Enlargements</b>	● ● ●	● ● ●	● ● ●	● ● ●

● ● ● Ideal

● ● Very good

● Another speed is better suited



# general technical data

## Exposure Characteristics

New emulsion technologies and patented silver crystal formation techniques have been developed and incorporated in these new color print films. The results are films which will perform superbly from under-exposure to over-exposure situations meeting the high quality demands of general photography. The advanced multi-layered structure ensures an excellent latitude of exposure, good results in the range of -3 to +4 stops, and high image quality for all imaging situations even when used in an inexpensive camera at less than optimal settings. All FG PLUS films are very user-friendly.

Although the film is balanced for daylight illumination, new advanced spectral sensitization assures good results when exposed under various light sources including electronic flash, tungsten and fluorescent lighting. The film also performs well outdoors under diverse color temperature conditions such as late evenings, early mornings, sky light vs. sun light and snow scenes. These films are perfect for any photographer looking for an "all light conditions" solution.

## Image Characteristics

The new patented crystal formation techniques provide much finer grain and increased sharpness. The advanced class of EXTRA-DIR couplers and color formers provide enhanced color saturation while maintaining natural skin tones and neutral gray scale reproductions in various lighting conditions. Advanced tonal linearity provides improved highlight and shadow detail.

New emulsion stabilizers yield improved processed film-keeping properties and provides, during periods of handling and storage, additional protection for the film from heat, humidity, light and damaging chemical fumes.

New printing characteristics match the most common color negative profiles used by processing labs for color and density correction.

## Electronic Flash Exposure

Adjust the exposure setting according to the instructions provided with the flash unit. Determine the correct lens aperture (f/stop) by dividing the guide number by the flash — subject distance in feet or meters.

$$\text{Lens aperture (f-number)} = \frac{\text{Guide number}}{\text{Flash - Subject Distance (meters or feet)}}$$

## Fluorescent Light Exposure

The light emitted by fluorescent tubes is generally deficient in some wavelengths resulting in prints exhibiting a green balance with standard printing procedures. Consequently, exposures made with fluorescent illumination require color corrections at the time of printing. Due to the variety of fluorescent lighting color temperatures, it is not possible to recommend a particular compensation filter or set of filters.

## Reciprocity

These films can be used in the range of 1/10,000 to 10 seconds without changes in speed and color balance. For exposures longer than 10 seconds, exposure compensation and filtration may be required depending on the type of light illuminating the subject.

## Processing

All FG PLUS films are intended for various process C-41 cycles and chemicals. To ensure optimum color negative quality, the process should be monitored carefully using C-41 process control strips.

## Printing

Excellent standard size prints and enlargements on color paper can be obtained from all FG PLUS films using conventional enlargers or automated printing equipment. For optimal printing results with automatic printers, a dedicated channel set up with a printer control tool manufactured with this film is recommended. The extended DX barcode enables the printer to identify the film and print it on the dedicated channel.

The DX code of FG100 PLUS is 87-3 (Generation Code = 87, Film Specifier = 3). The DX code of FG200 PLUS is 87-6 (Generation Code = 87, Film Specifier = 6). The DX code of FG400 PLUS is 87-7 (Generation Code = 87, Film Specifier = 7). The DX code of FG800 PLUS is 87-10 (Generation Code = 87, Film Specifier = 10). Processed films may be visually identified by alternating cyan-green dots and pluses (+ + + + +) between perforations and a human readable DX code on the top edge of the film (87-3, 87-6, 87-7 and 87-10).

## Storage

### Before processing

Always store unexposed or exposed films in a cool, dry place in moisture-proof containers, as all color films are sensitive to heat, humidity and fumes emitted from chemicals. In hot humid climates or for long term storage, keep the films in a moisture-proof container at 10°C/50°F or lower.

- Do not open the original sealed container until just before using the film.
- Use film before the expiration date printed on the box.
- Avoid leaving partially exposed film in the camera for a long period of time.
- Process the film promptly after exposure to avoid any image deterioration.
- Avoid storing unpacked film or loaded cameras in high humidity conditions or where the emission of exhaust gases and formaldehyde fumes may occur, as these are very harmful to photographic films (aldehyde fumes are often emitted from new furniture wood glues, laminate adhesive, foam insulation, sprays, etc.).

### After processing

The dyes in all FG PLUS films are among the most stable used for sensitized material. Yet, like all organic dyes, they may change with time. Humidity, heat and light are the most critical factors in the storage of processed color negatives. Always keep processed negatives in a cool, dry and dark place. It is advisable to store processed film at a relative humidity not exceeding 40% and a temperature not exceeding 20°C/68°F to avoid film deterioration.

## Handling

Always load and unload your camera in subdued light. Loading film in extremely low temperatures may cause the film to break.

## Airline Travel

Always insure that film is packed in carry-on luggage. Even high speed films can be scanned by hand carry x-rays. Do not put unprocessed film in checked luggage as film will be damaged by high energy x-rays.

## Diffuse RMS Granularity

Microdensitometric measurement characteristics:

Aperture diameter: 40µm

Magnification: 12x

Sample Density Level: 1.0 above minimum density

Diffuse Granularity FG PLUS 100: 3.5 (RMS)

Diffuse Granularity FG PLUS 200: 4.0 (RMS)

Diffuse Granularity FG PLUS 400: 4.5 (RMS)

Diffuse Granularity FG PLUS 800: 5.0 (RMS)

# FG100 PLUS and FG200 PLUS technical data

## FG100 PLUS

### Characteristics

Ferrania Imaging Technologies FG100 PLUS is a daylight balanced color print film with a nominal speed rating of ISO 100. FG100 PLUS provides excellent results in both compact and SLR cameras. FG100 PLUS is a high resolution, high color fidelity, fine grain film that yields prints with great dimensional depth, excellent sharpness, vivid color saturation, rich gradation and fine detail. FG100 PLUS provides maximum quality in a wide range of print sizes.

### Speed

ISO 100/21° — FG100 PLUS is medium speed film designed to provide excellent picture-taking opportunities and deliver maximum quality under bright daylight and flash photography. The combined high resolution and wide exposure latitude make this film ideal for still life, scenic, flash photography, portraiture, and macro photography.

## FG200 PLUS

### Characteristics

Ferrania Imaging Technologies FG200 PLUS is a fine grain, advanced technology, high resolution, medium speed, daylight balanced color print film with a nominal speed rating of ISO 200. FG200 PLUS provides excellent results in both compact and SLR cameras. The excellent tonal and color reproduction characteristics of FG200 PLUS yield prints with excellent contrast, superior color saturation and great dimensional depth.

### Speed

ISO 200/24° — FG200 PLUS is designed to extend picture taking opportunities from bright daylight to subdued outdoor lighting and is an excellent general purpose film. The medium speed and extra wide latitude make this film very easy to use offering advantages of greater depth of field and better usable range for flash pictures. The film may be used in a wide variety of shooting conditions and situations including scenic, still life, portraiture, subdued daylight, macro photography and wide ranging flash photography.

## FG100 PLUS and FG200 PLUS

### Exposure

Both FG PLUS 100 and 200 films are balanced for daylight or equivalent light conditions (5500K). When exposed under tungsten or fluorescent lighting, the use of an appropriate filter is recommended.

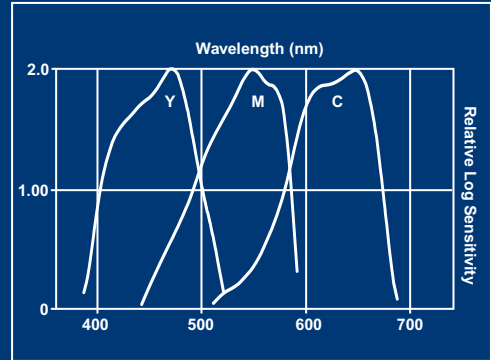
### Daylight Exposure

(Exposure time 1/125 sec.)

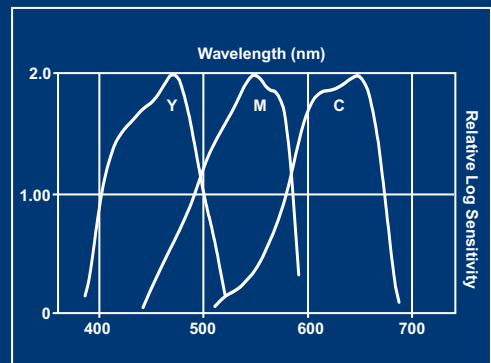
Use exposures shown in chart at right from two hours after sunrise to two hours before sunset for average front-lit subjects.



FG100 PLUS Spectral Sensitivity Curves



FG200 PLUS Spectral Sensitivity Curves

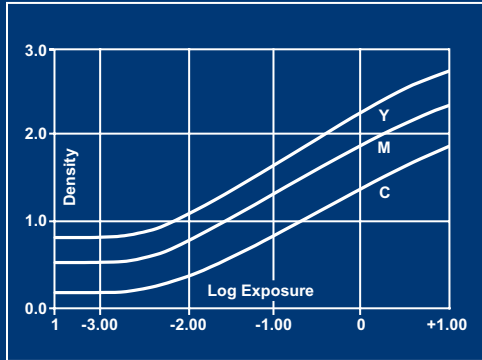


### Exposure

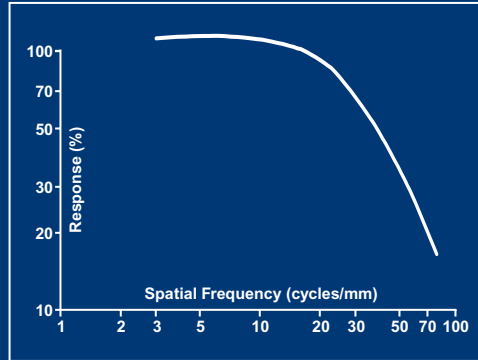
Light source	FG100 PLUS exposure index	FG200 PLUS exposure index	Filter requirements
Daylight or Electronic flash	100/21°	200/24°	none
Tungsten (3200 K)	25/15°	50/18°	80 A
Photoflood (3400 K)	32/16°	64/19°	80 B

**FG100 PLUS**  
**FG200 PLUS**

**FG100 PLUS**  
Sensitometric Characteristic Curves

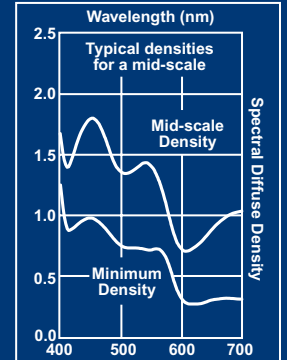


**FG100 PLUS**  
Modulation Transfer Function

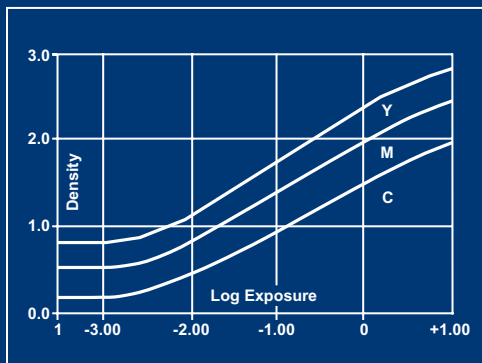


Exposure: Daylight      Densitometry: Visual

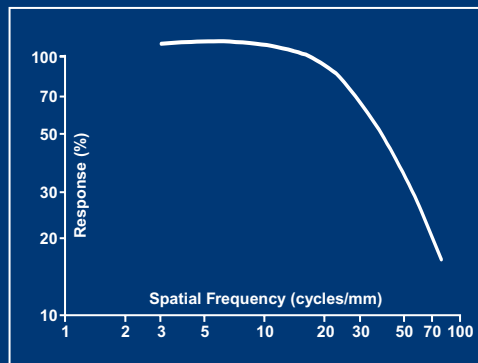
**FG100 PLUS**  
Spectral Dye Density Curves



**FG200 PLUS**  
Sensitometric Characteristic Curves

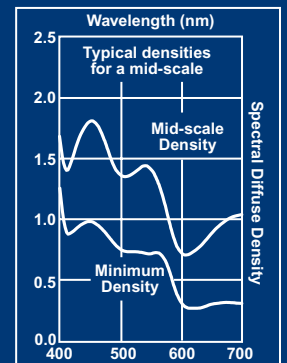


**FG200 PLUS**  
Modulation Transfer Function



Exposure: Daylight      Densitometry: Visual

**FG200 PLUS**  
Spectral Dye Density Curves



**Daylight Exposure (1/125 sec.)**

Lighting Conditions	FG100 PLUS Lens Aperture	FG200 PLUS Lens Aperture
Bright sunlight (sand or snow)	f/16	f/22
Bright sunlight (distinct shadows)	f/11	f/16
Weak hazy sun (soft shadows)	f/8	f/11
Cloudy bright (no shadows)	f/5.6	f/8
Heavy overcast	f/4	f/5.6
Open shade	f/4	f/5.6

Note: For side or back-lit subjects with shadow detail, increase lens aperture by 1/2 or 1 f/stop.



# FG400 PLUS and FG800 PLUS technical data

## FG400 PLUS

### Characteristics

Ferrania Imaging Technologies FG400 PLUS is a high speed, daylight balanced color print film with a high nominal speed rating of ISO 400. FG400 PLUS is designed for extended picture-taking opportunities in a variety of conditions and situations, and will provide excellent results in compact, SLR and ready-to-use cameras. FG400 PLUS color print film has great dimensional depth, exceptional sharpness, fine grain, vivid color saturation, high color fidelity, rich gradation and fine detail.

### Speed

ISO 400/27° — FG400 PLUS has been designed to provide good picture-taking opportunities in "all light" conditions especially from normal to low "available light" levels and will extend effective flash distance ranges. The film also provides good picture-taking opportunities with subjects requiring high shutter speeds for action photography and hand-held telephotography, and allows for smaller aperture openings for greater depth of field.

## FG800 PLUS

### Characteristics

Ferrania Imaging Technologies FG800 PLUS is a very high speed advanced technology, daylight balanced color print film with a nominal speed rating of ISO 800. FG800 PLUS will provide excellent results in compact, SLR and ready-to-use cameras. The film may be used in a variety of shooting conditions and situations including all light levels. This film incorporates new technologies which will deliver superior grain and image characteristics in the 800 speed class of films.

### Speed

ISO 800/30° — FG800 PLUS has been designed to provide very good picture-taking opportunities in "all light" conditions with superior performance from normal to low "available light" levels. The film also provides excellent picture-taking opportunities with subjects requiring available light exposure, high shutter speeds, good depth of field or hand-held telephotography.

## FG400 PLUS and FG800 PLUS

### Exposure

Both FG400 PLUS and FG800 PLUS films are balanced for daylight or equivalent light conditions (5500K). When exposed under tungsten or fluorescent lighting, the use of an appropriate filter is recommended.

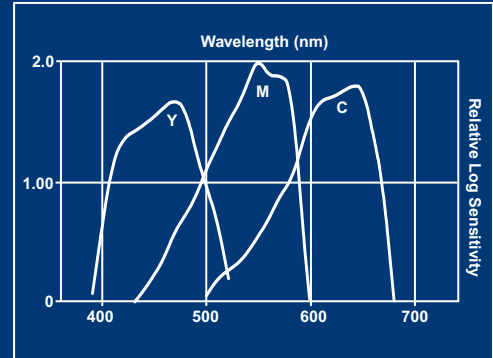
### Daylight Exposure

(Exposure time 1/500 sec.)

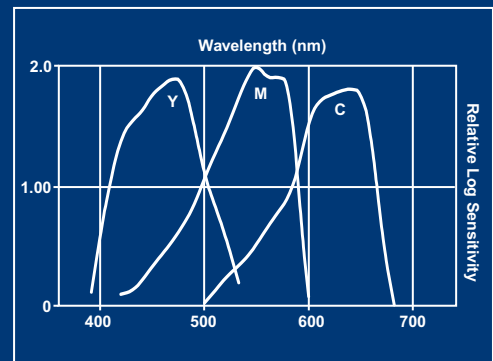
Use exposures shown in chart at right from two hours after sunrise to two hours before sunset for average front-lit subjects.



FG400 PLUS  
Spectral Sensitivity Curves



FG800 PLUS  
Spectral Sensitivity Curves

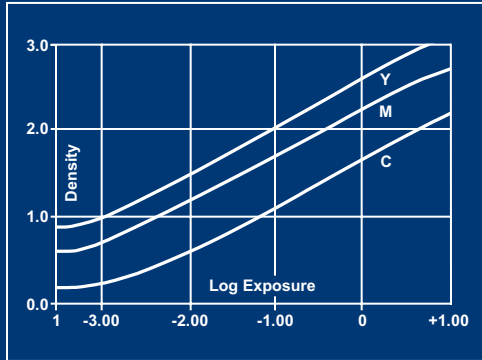


### Exposure

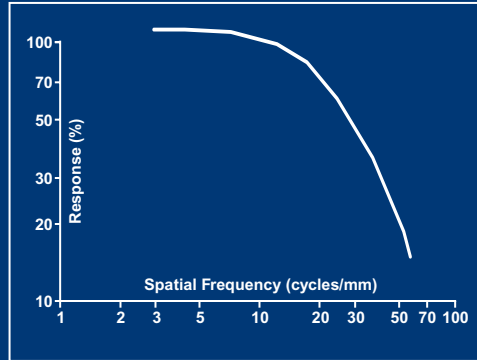
Light source	FG400 PLUS exposure index	FG800 PLUS exposure index	Filter requirements
Daylight or Electronic flash	400/27°	800/30°	none
Tungsten (3200 K)	100/21°	200/24°	80 A
Photoflood (3400 K)	125/22°	250/25°	80 B

**FG400 PLUS**  
**FG800 PLUS**

**FG400 PLUS**  
Sensitometric Characteristic Curves

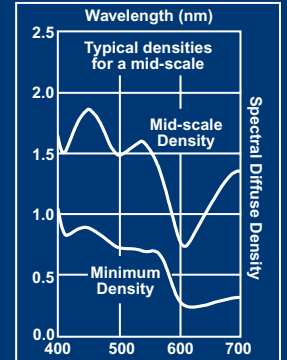


**FG400 PLUS**  
Modulation Transfer Function

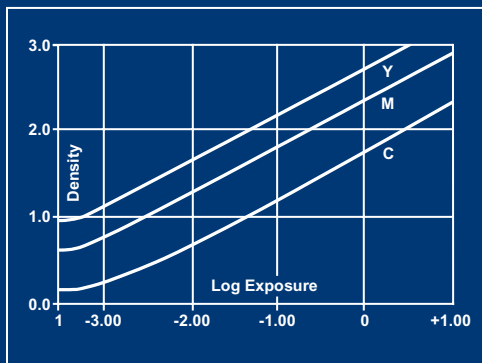


Exposure: Daylight      Densitometry: Visual

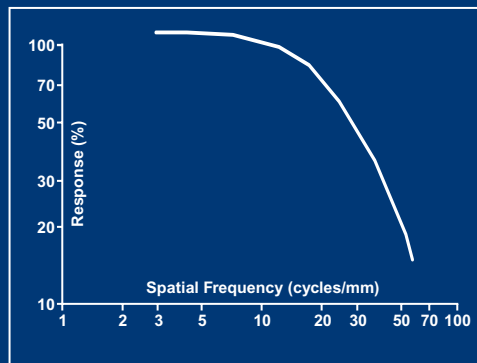
**FG400 PLUS**  
Spectral Dye Density Curves



**FG800 PLUS**  
Sensitometric Characteristic Curves

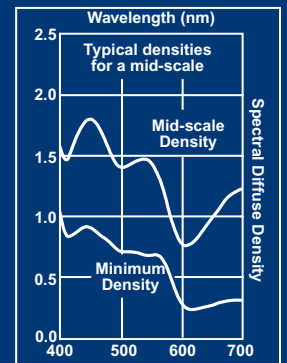


**FG800 PLUS**  
Modulation Transfer Function



Exposure: Daylight      Densitometry: Visual

**FG800 PLUS**  
Spectral Dye Density Curves



**Daylight Exposure (1/500 sec.)**

Lighting Conditions	FG400 PLUS Lens Aperture	FG800 PLUS Lens Aperture
Bright sunlight (sand or snow)	f/16	f/22
Bright sunlight (distinct shadows)	f/11	f/16
Weak hazy sun (soft shadows)	f/8	f/11
Cloudy bright (no shadows)	f/5.6	f/8
Heavy overcast	f/4	f/5.6
Open shade	f/4	f/5.6

Note: For side or back-lit subjects with shadow detail, increase lens aperture by 1/2 or 1 f/stop.

**Existing Light Exposure**

	Shutter Speed	FG400 PLUS Lens Aperture	FG800 PLUS Lens Aperture
<b>Indoor</b>			
Available light from window on bright day	1/60	f/2.8	f/4
With bright tungsten light	1/30	f/2.8	f/4
With average tungsten light	1/30	f/2	f/2.8
With bright fluorescent light	1/60	f/4	f/5.6
Circus, sport events in white lights*	1/125	f/2.8	f/4
Museum, auditorium with diffuse low light	1/30	f/2	f/2.8
<b>Outdoor</b>			
Twilight, scenes with no artificial lights	1/60	f/2.8	f/4
Streets at night with bright light	1/60	f/2.8	f/4
Bright store windows, neon signs at night	1/60	f/4.0	f/5.6
Floodlit sport events*	1/125	f/2.8	f/4
Amusement parks, fairs at night	1/30	f/2.8	f/4
Monuments at night with white floodlights	1/30	f/2	f/2.8

\* Use 1/250 second for ice sports.

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