BLACK AND WHITE

INFORMATION FROM KODAK

F - 432

KODAK T-MAX
PROFESSIONAL FILMS

KODAK T-MAX Professional Films are part of a wide range of Kodak black and white products designed to meet the needs of the discerning photographer.

KODAK T-MAX Films offer the advantage of KODAK T-GRAIN emulsion technology, an invention that changed the traditional speed/grain relationship for photographic films. Put simply, these films provide higher speed and finer grain than was previously thought possible. The benefits are better quality pictures and films of such high speed that low-light photography is now commonplace.

THE BLACK AND WHITE IMAGE

Today, black and white photography has been rediscovered as an appropriate vehicle for serious photographers to express themselves in a creative manner. There is strong evidence of a growing interest in black and white images. Monochrome images, be they advertising or editorial, are found in ever increasing numbers in magazines. Large, finely crafted, black and white display prints adorn walls and windows in studios of more and more professional portrait photographers seeking to exploit this new and potentially lucrative niche in the marketplace.

LANDSCAPE

The landscape, encompassing the beauty and variety of the natural environment, where the dualities of softness and strength contain a seemingly endless range of textures and contours, is matched by the films' extraordinary tonal range, capable of faithfully recording what might otherwise be assigned only to memory.

PORTRAITURE

The creative portrait photographer will appreciate the films' ability to correctly reproduce the subject in detail from strong, powerful blacks to silky grey tones and sparkling highlights. When properly exposed and processed KODAK T-MAX Films provide images full of expressive detail throughout shadow, mid tone and delicate highlight regions.

PHOTOJOURNALISM

The Photojournalist will find the extended photographic opportunities offered by T-MAX Films, and their ability to be push processed, to be a real advantage in both action and low light photography.

COMMERCIAL

Commercial photographers will find the long tonal range, high sharpness and extremely fine grain to be an advantage in accurately reproducing difficult subject matter from still life and food, to car, industrial and architectural photography.

ENHANCED PERFORMANCE

The stunning image quality afforded by the combination of Kodak film, paper and chemicals provides great scope by allowing the photographer the ability to explore the various nuances of form, texture and shape within the subject. The fact that the films can be linked to the Kodak family of quality black and white papers, such as KODAK POLYMAX RC Paper and KODAK POLYMAX Fine Art Paper, will result in enhanced film performance as the combination extends picture taking into particularly contrasty scenes and provides optimized tonal reproduction and increased latitude in the final print.

KODAK T-MAX 100 Professional Film is a continuous tone, panchromatic black and white negative film for general photography. It is especially useful for detailed subjects when maximum image quality is required. This film features medium speed (ISO 100/21°), extremely high sharpness, extremely fine grain and very high resolving power. It allows a very high degree of enlargement and reacts well to contrast adjustment through customised development.

KODAK T-MAX 400 Professional Film is a continuous tone, panchromatic black and white film especially useful for photographing dimly lit subjects or fast action. The film is also useful for extending the distance range of flash pictures and for photographing subjects that require good depth of field and fast shutter speeds with maximum image quality from a film of this speed.

KODAK T-MAX P3200 Professional Film is a multi-speed, panchromatic black and white negative film that combines high to ultra high film speeds with finer grain than that of other fast black and white films. It is especially useful for very fast action, for dimly lit scenes where flash is inappropriate, for subjects that require good depth of field combined with fast shutter speeds and for hand holding telephoto lenses for fast action or in dim light. The film is an excellent choice for use indoors, or for night-time sports events and available-light press photography, as well as law enforcement and general surveillance applications that may require exposure indexes from EI 400 to EI 25,000. Best results will be achieved with exposure indexes between EI 1600 and EI 6400.

STORAGE AND HANDLING

Store unexposed film at 24°C, or lower, in original sealed package. For protection from heat, in areas with temperatures consistently higher than 24°C, you can store the film in a refrigerator. If film has been refrigerated, allow the package to warm up to room temperature, normally 2 to 3 hours, before opening the package and exposing the film. Load and unload roll film cameras in subdued light and rewind the film completely before unloading the camera. For best results, process the film promptly after exposure. Store processed film in a cool, dry, dark place.

RECIPROCITY INFORMATION

(Adjustments for Long and Short Exposures)

At the exposure times listed in the following tables, compensate for the reciprocity characteristics of these films by increasing the exposure as shown. The uniformity of results is excellent with both short and long exposures.

Indicated Exposure Time (Seconds)	KODAK T-MAX 100 Professional Film	
	Use this lens aperture adjustment, ...OR	This Exposure/Time Adjustment (seconds)
1/10,000	+1/3 stop	Change Aperture
1/1,000	None	None
1/100	None	None
1/10	None	None
1	+1/3 stop	Change Aperture
10	+1/2 stop	15
100	+1 stop	200

Indicated Exposure Time (Seconds)	KODAK T-MAX 400 Professional Film	
	Use this lens aperture adjustment,...OR	This Exposure/Time Adjustment (seconds)
1/10,000	+1/3 stop	Change Aperture
1/1,000	None	None
1/100	None	None
1/10	None	None
1	+1/3 stop	Change Aperture
10	+1/2 stop	15
100	+1stop	200

Indicated Exposure Time (Seconds)	KODAK T-MAX P3200 Professional Film	
	Use this lens aperture adjustment,...OR	This Exposure/Time Adjustment (seconds)
1/10,000	None	None
1/1,000	None	None
1/100	None	None
1/10	None	None
1	None	None
10	+2/3 stop	15

DARKROOM RECOMMENDATIONS

Do not use a safelight.

Handle unprocessed film in total darkness.

KODAK
T-MAX
PROFESSIONAL FILMS

KODAK T-MAX Professional Films

KODAK T-MAX 100, 400 & P3200 Professional Films feature DX coding.

All T-MAX Films incorporate these features.

KODAK T-MAX products mean versatility and unsurpassed quality.

FEATURES	BENEFITS
KODAK T-GRAIN emulsion that reshapes pebble-like crystals into a tabular form with more surface area on which to catch light.	Allows films with extremely fine grain to be made faster. T-MAX Films offer both high speed and fine grain.
Improved sharpness.	Maintains subject detail in prints at higher degrees of magnification than conventional films.
Expanded exposure latitude.	Greater "forgiveness" with over-exposure errors. Quality prints from moderately under or over-exposed negatives. Better highlight separation.
Improved reciprocity at long and short exposure times.	Less compensation required than with conventional films.
120 size film coated on a thicker (4.7 mil) base than other black and white roll films.	Improved dimensional stability for easier darkroom handling.
More responsive to Zone-System development changes.	Smaller time adjustments needed.

As well as the features listed in the above table, each film in the T-MAX family has its own individual attributes.

KODAK T-MAX 100 Film	
Features	**Benefits**
Excellent for copying with normal exposure and processing.	No need for contrast adjustment or special processing
Quality black and white slides when processed in T-MAX 100 Direct Positive Film Developing Outfit.	Reversal applications with shorter processing times.

KODAK T-MAX 400 Film	
Features	**Benefits**
A versatile film for everyday use.	Excellent under bright and dimly lit conditions.
An excellent choice for scientific or biomedical work.	Especially suited to fluorescence photography.

KODAK T-MAX P3200 Film	
Features	**Benefits**
Speeds ranging from high to ultra high.	Allows photography in situations where it was previously impossible.