

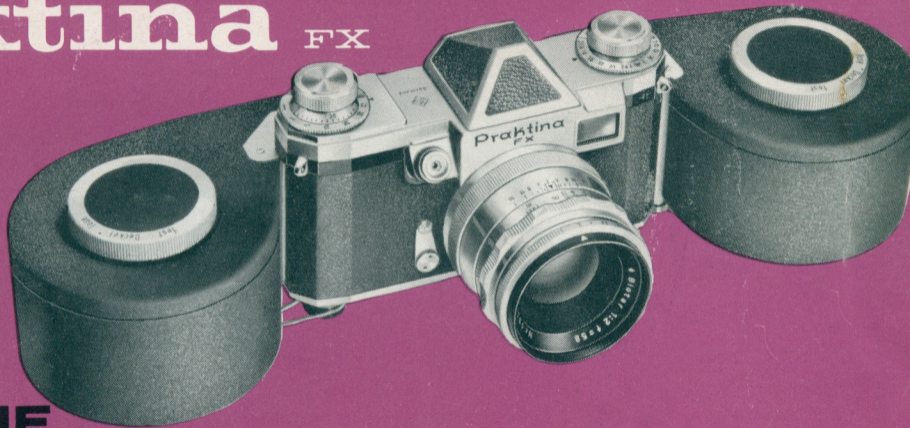
Praktina FX

**50-Foot
Capacity**

BULK

FILM

MAGAZINE



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introduction

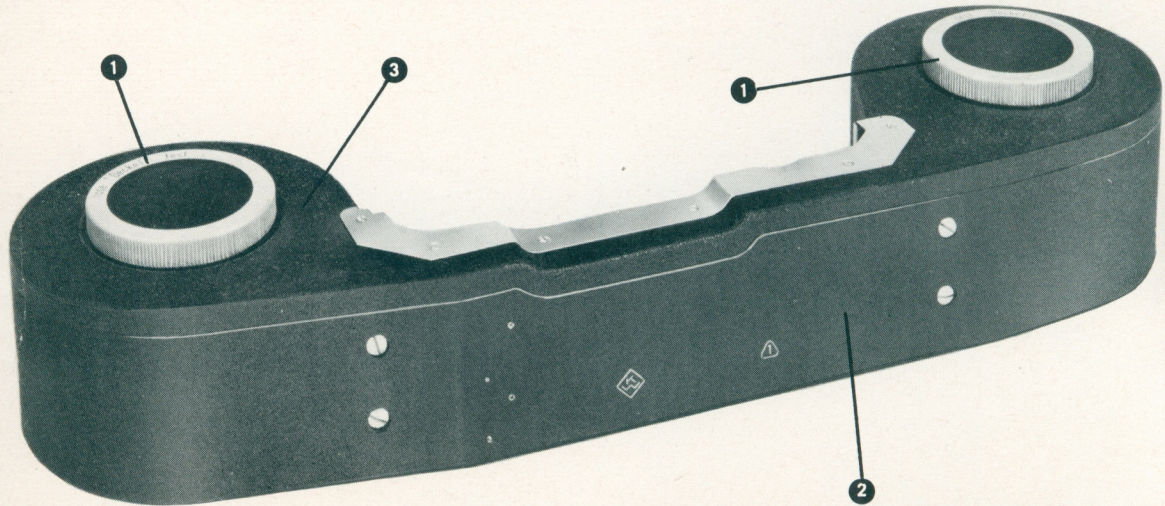
The Praktina 50-Foot Capacity Bulk-Film Magazine, when attached to the Praktina FX automatic camera, permits taking 420 successive standard 35mm frames without reloading. It can be used alone or in conjunction with the Praktina FX Electric Motor and Magnetic Remote Control, or with the Praktina FX Rapid-Sequence Spring Motor. It is easily attached to the camera and can be loaded with any 35mm bulk film. This attachment is particularly useful for recording or microfilm work, and has many applications in nature, scientific, sports and identification photography where the large uninterrupted film load is especially advantageous.

general instructions

The following procedures should be carried out with a dummy film roll in a lighted room before attempting to load an unexposed roll of film using a changing bag or in the darkroom. In using the Bulk-Film Magazine, the cover must first be removed, exposing the light-tight cartridges which hold the film (one for Supply and the other for Take-up). The Supply Cartridge is removed from the Magazine, loaded with film, and closed. The Take-up Cartridge is taken from the Magazine, the film leader is passed into the Retaining Clip on the film spool of the Take-up Cartridge, and the Cartridge is then closed. The Cartridges are positioned in the Magazine and the Cover is replaced. The Bulk-Film Magazine is then attached to the Praktina FX automatic camera, the Film Drive Mechanism of the camera linked to the Film Transmission System of the Bulk-Film Magazine, and the camera is ready to make 420 exposures without interruption.



PRAKTINA FX 50-FOOT CAPACITY BULK-FILM MAGAZINE



REMOVING THE MAGAZINE COVER

Place the Bulk-Film Magazine on a table so that the Discs (1) on which the words "lose," "Deckel," and "fest" are engraved appear on top. The Back (2) of the Magazine should face you.

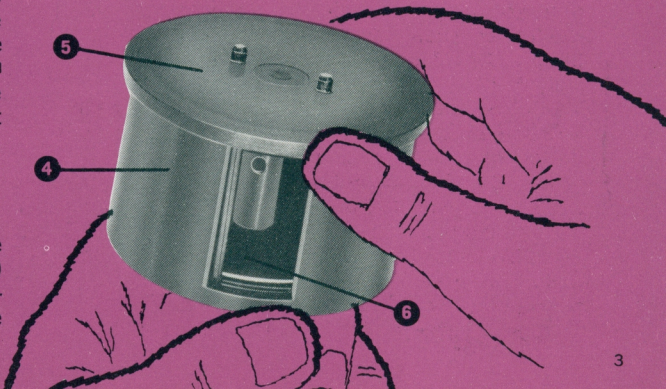
The words **lose**, **Deckel**, and **fest** correspond to **open**, **Cover** and **closed**, respectively. To remove the Magazine Cover (3), the Discs (1) must be rotated so the Colored Dots engraved on the Magazine Cover are opposite "lose" or "open" on each Disc. The Magazine Cover (3) can now be removed without difficulty. Lift it up and place it nearby.

LOADING THE FILM SUPPLY CARTRIDGE

Remove the Supply Cartridge (4) from the left side of the Magazine. Rotate the Upper Shell (5) counter-clockwise, exerting a slight upward pressure while doing so. When the Gate (6) in the

Upper Shell is aligned with the Gate in the Lower Shell, the Upper Shell (5) will release so that you can pull it up easily. Remove the Upper Shell (5) and place it nearby.

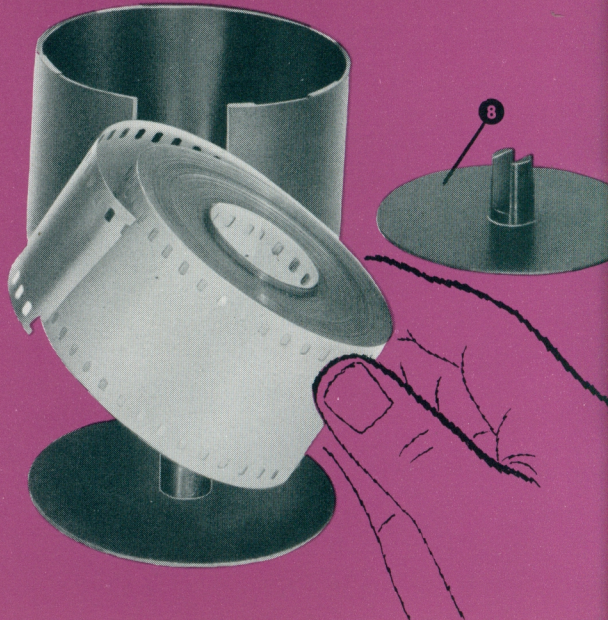
A Film Spool (7) will be found in the Supply Cartridge (4). Remove the Film Spool by simply lifting it upward. In the darkroom, remove the Flange (8)



and put the unexposed 50-foot roll of film onto the bottom half of Film Spool so that it unwinds in a counterclockwise direction. Now, replace the Flange (8). Place the Film Spool (with flange down) in the inverted Upper Shell of the Cartridge allowing a one-foot Leader to project through the Gate (6) in the Cartridge. Replace the Lower Shell of the Cartridge by aligning the Gates and pressing the Lower Shell down into position. Close the Supply Cartridge by rotating the Upper Shell in a **clockwise** direction.

The film should wind from the Supply Cartridge in a counterclockwise direction only. If it does not do so, open the Supply Cartridge in the darkroom, reverse the direction of travel of the film by lifting the roll of film off the Spool, turning it upside down, and replacing it on the Spool.

When the Supply Cartridge is closed, it is light-tight. The rest of these Instructions may be carried out in normal room light. Place the loaded Supply Cartridge on the table for the moment.

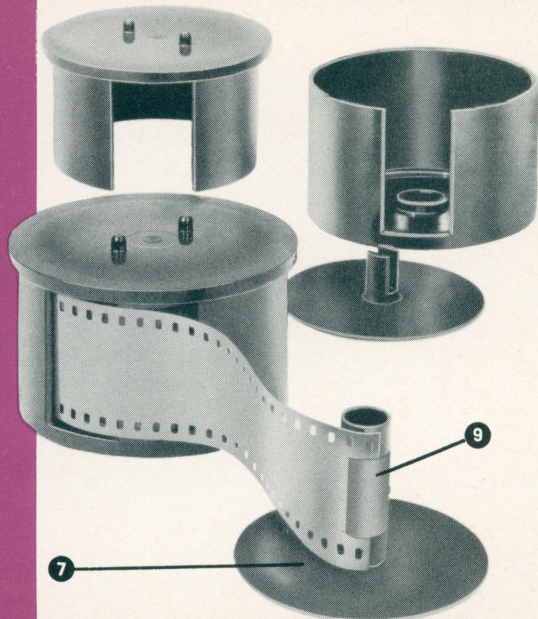


ATTACHING THE FILM LEADER TO THE TAKE-UP SPOOL

Remove the Take-up Cartridge from the right side of the Magazine. Open it by aligning the Gates in the Upper and Lower Shells, and exerting a slight pressure upwards. Remove the Upper Shell and place it nearby on the table. Remove the Film Spool.

Now, lift the Flange off the Film Spool and pass the end of the Film Leader projecting from the Supply Cartridge into the **right side** of the Retaining Clip (9) of the Film Spool. The film must wind in a counterclockwise direction on the Film Spool. Make sure, therefore, that the Film Leader passed into the **right side** of the Retaining Clip only. If it passed into the left side of the Retaining Clip, the film will bulge in the center and may cause eccentric film wind.

Wind a complete turn of film around the Center Post of the Film Spool before you replace the



Flange, in order to prevent the Leader from slipping out of the Retaining Clip when the Cartridges are being positioned in the Magazine. Place the Film Spool, with the Flange uppermost, into the Lower Shell of the Take-up Cartridge.

Make certain that the film has not kinked or

twisted when you passed it through the Gate in the Lower Shell of the Take-up Cartridge. Close the Take-up Cartridge by aligning the Gates in the Upper and Lower Shells and then twisting the Upper Shell in a **counterclockwise** direction as far as it will go.

REPLACING THE CARTRIDGES IN THE MAGAZINE

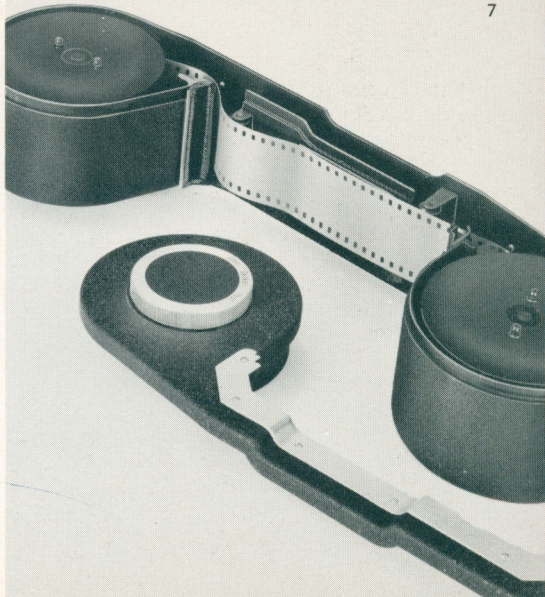
The Cartridges are now replaced in the Bulk-Film Magazine. To do so, approximately nine inches of film should be available for passing over the rollers and pressure plate. If the length of film between the two Cartridges is insufficient, pull enough film through the Gate of the Supply Cartridge for this purpose, without opening Gate.

For smooth film transport, the Supply Cartridge and Take-up Cartridge must be inserted in the Magazine in different positions. The Supply Car-

tridge should be placed in the Magazine with the Gate in approximately the ten o'clock position as you lower it into the left side of the Magazine. If the Supply Cartridge does not "sink" into position immediately, grasp the two pins on the Upper Shell of the Cartridge and twist the entire Cartridge **clockwise**. After a very slight turn, two pins in the Lower Shell will meet positioning holes in the base of the Magazine, and the Supply Cartridge will "sink" into fixed position.

The Take-up Cartridge is lowered into the right side of the Magazine with the Gate in approximately the eight o'clock position. If the Take-up Cartridge does not "sink" into position immediately, grasp the two pins on the Upper Shell of the Take-up Cartridge and twist the entire cartridge **counterclockwise**. After a very slight turn, two pins in the Lower Shell of the Take-up Cartridge will fall into positioning holes in the base of the Magazine, and the Take-up Cartridge will "sink" into fixed position.

At this time, the film should pass across the rollers and over the pressure plate, as shown in the picture, and the pins on the Upper Shells of the Supply and Take-up Cartridges should appear in the same relative positions as in the picture. Twist the top pins of the Supply Cartridge in a **clockwise** direction as far as they will go. Twist the pins of the Take-up Cartridge in a **counterclockwise** direction as far as they will go.



REPLACING THE MAGAZINE COVER

Replace the Magazine Cover (3) so that it slides onto the Bulk-Film Magazine Housing. Make sure the words "lose" or "open" are opposite the colored dots in the Housing before doing so. If the Magazine Cover does not descend completely, the Discs should be rotated slightly in either direction until it does descend. Twist each Disc so that the colored dot on the Disc lines up with the colored dot on the Magazine Cover. Do not twist the Discs any further, since doing so may cause the film to be exposed to light.

ATTACHING THE FILM MAGAZINE TO THE CAMERA

The Bulk-Film Magazine replaces the camera back of the Praktina FX automatic camera.

Remove the camera back by pressing down the Slide-latch and lifting the back off the camera (see Praktina FX Instruction Manual). Place the

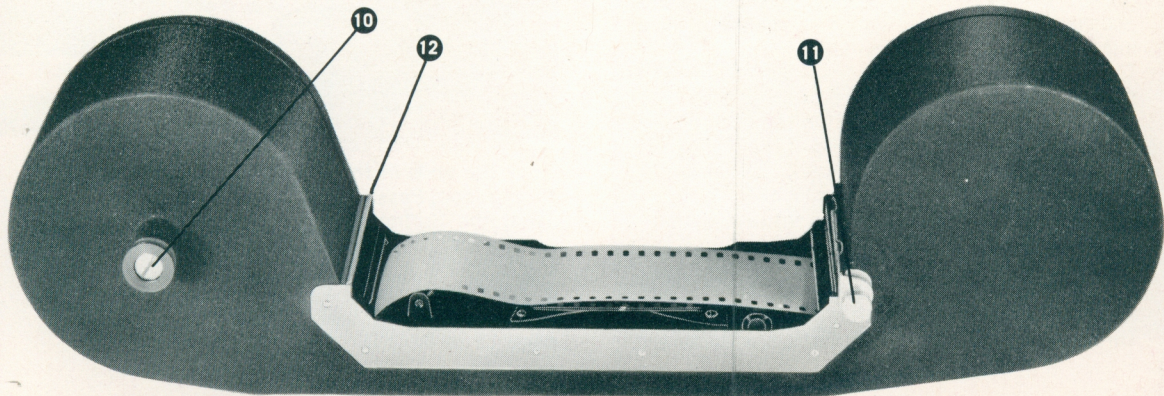
Now, lift the Magazine up off the table. Note the Pulley (10) beneath the Take-up Cartridge. Position it as shown in the picture. Wiggle the Pulley a few times to make sure that engagement with the Film Spool in the Take-up Cartridge has taken place. Tighten the film in the Take-up Cartridge and across the rollers and pressure plate by rotating the Pulley (10) in a **clockwise** direction. Make sure that the film runs snugly and within its proper channels across the rollers and pressure plate.

Bulk-Film Magazine flat on the table so that the pressure plate faces up and the Pulley (10) and Magazine Latch (11) face you.

Pull the Magazine Latch (11) out as far as it will go. Note the Lip (12) in the Bulk-Film Magazine

which fits into the Groove in the camera body. Insert the camera on the Magazine at about a 45° angle so that the Lip (12) engages the Groove just as the ordinary Camera Back does. Let the camera descend fully into position in the Magazine, making

sure that the Lip does not escape the Groove. When satisfied with the fit, lock the Camera onto the Magazine by pushing the Magazine Latch (11) in as far as it will go.

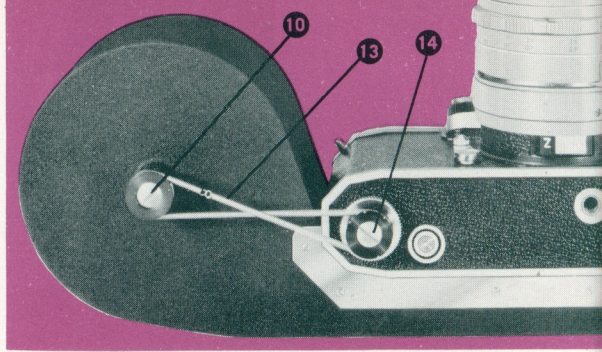


SETTING THE FILM TRANSPORT MECHANISM

Place the Camera and Magazine on the table so that the Discs are on top. Twist each Disc towards the word "fest" as far as it will go. This opens the Gate in each Cartridge sufficiently to permit easy passage of the film through the camera. The same movement locks the **Magazine Cover**.

The Film Drive Mechanism of the Camera must now be linked with the Film Transmission System of the Bulk-Film Magazine. This is accomplished by a Spring Belt (13) which links the Pulley (10) of the Magazine to the Take-up Spool of the Camera.

Insert the Coupling Adapter (14) into the Coupling Receptacle in the base of the Camera, so that keys and key-ways meet. When the Coupling Adapter descends into the Coupling Receptacle, twist the knurled ring in a **clockwise** direction until it stops. This locks the Coupling Adapter to the Camera.



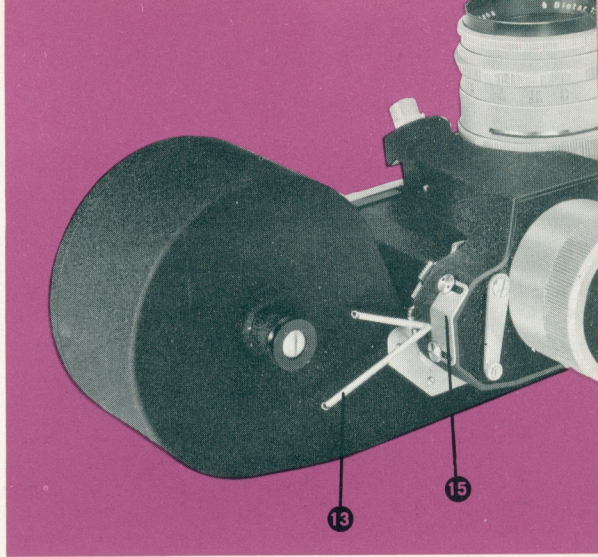
Hook the ends of the Spring Belt (13) together to form a loop. Pass the Spring over the Pulley (10). Twist the Spring once so that a Figure-of-Eight results and loop the other end over the Pulley on the Coupling Adapter. The Film Drive Mechanism of the Camera and the Film Transmission System of the Bulk-Film Magazine are now linked. (See page 12 for MAKING THE FIRST EXPOSURE).

USING THE BULK-FILM MAGAZINE WITH THE RAPID-SEQUENCE SPRING MOTOR

To couple the Bulk-Film Magazine to the action of the accessory Rapid-Sequence Spring Motor, first attach the Bulk-Film Magazine to the Camera. Then attach the Rapid-Sequence Spring Motor to the camera (see Rapid-Sequence Spring Motor Instruction Manual).

Lower the Window Cover (15) in the Rapid Sequence Spring Motor, exposing the Coupling Adapter with Pulley which is part of the Rapid-Sequence Spring Motor and has been attached to the Coupling Receptacle of the Camera.

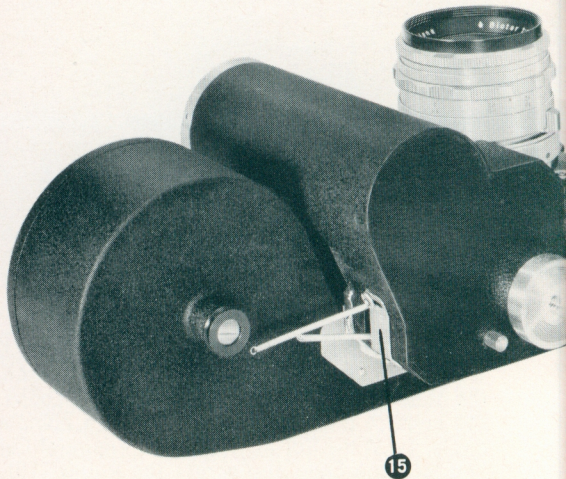
Pass one end of the Spring Belt (13) through the Window, around the Pulley inside, and out through the other side of the Window. Attach the Loops at the ends of the Spring Belt to form a complete circle. Twist the Spring Belt into a Figure-of-Eight and loop the open end across the Pulley (10) of



the Magazine. The Rapid-Sequence Spring Motor can now be wound in the usual manner and released to transport the film.

USING THE BULK-FILM MAGAZINE WITH THE ELECTRIC MOTOR AND MAGNETIC REMOTE CONTROL

The Electric Motor and Magnetic Remote Control is attached to the Camera (see Instruction Manual for this accessory). However, before doing so, install the Bulk-Film Magazine on the Camera. The Window Cover (15) in the Housing of the Electric Motor is then opened. One end of the Spring Belt is passed through the Window, around the Pulley, and out through the other side of the Window. The ends of the Spring Belt are hooked together and the Spring Belt is twisted to form a Figure-of-Eight. The open end of the Loop is passed over the Pulley (10) of the Bulk-Film Magazine. The Electric Motor can now be released in the usual manner.



MAKING THE FIRST EXPOSURE

In attaching the Bulk-Film Magazine to the camera, you exposed the film which was passed across the rollers and pressure plate. In order to trans-

port the film to an unexposed frame for the first exposure, wind and release the shutter three times. The next wind will place an unexposed portion of film in position for picture-taking.

REMOVING THE FILM FROM THE MAGAZINE

It may be desirable to expose only part of the 50-foot film roll and to leave the rest in the Magazine for future use. In order to remove the exposed portion for developing, transport the film three additional frames. This moves the exposed portion of the film entirely into the Take-up Cartridge.

Turn the Discs on the Magazine Cover till the Colored Dots on the Discs are opposite the Colored Dots on the Magazine Cover. This closes the Gates in both Cartridges, making the Cartridges light-tight. Remove the Magazine from the camera by pulling down the Magazine Latch (11)

and lifting the camera off the Magazine.

Turn the Discs on the Cover to "lose" or "open" to unlock the Magazine Cover. Remove the Magazine Cover and place it nearby. Cut the film where it enters the Take-up Cartridge, leaving the exposed portion of the film for a leader.

The exposed film in the Take-up Cartridge can now be developed immediately. The film in the Supply Cartridge can be attached to another Take-up Spool in the usual manner, inserted in the Take-up Cartridge, and used with the loss of only six frames.

BULK FILM IN BLACK-AND-WHITE OR COLOR

Following is a list of the most commonly used types of film available in bulk, with important data

and recommendations. For more complete information, please write to the film manufacturer.

ANSCO FILMS

Name of Film	Standard Roll Length In Feet	Order No. or Type	Recommended Exposure Indices		Description
			Daylight	Incand.	
Supreme	100	453	50	32	Low-grained panchromatic long scale negative, for general studio and exterior use.
Ultra-Speed	100	456	100	64	High sensitive, low grain panchromatic negative for general use.
Ansochrome F*	100	—	—	20**	Color positive for using flash bulbs to make projection slides.
Ansochrome*	100	—	32	8†	Color positive for using daylight to make projection slides.

* Can be developed by user

** With #82A filter

† With #10 filter

ADOX FILMS

KB-14*	50	—	32	18	Ultra high resolution panchromatic, used for great enlargement or when extra fine detail or texture is desired.
KB-17*	50	—	50	30	Fine-grained panchromatic negative, for general purpose and also often used for micro- and macro-photography.
KB-21*	50	—	120	90	Low-grained panchromatic fast negative, for general interior and exterior use.

* The Adox bulk film in 50-ft. rolls has a free core and is not wound on a spool. It will freely slip onto the spool of the Magazine.

KODAK FILMS

Name of Film	Standard Roll Length In Feet	Identification No.	Recommended Exposure Indices		Description
			Daylight	Incand.	
Kodachrome*	50	K401	10	5†	Color positive for projection slides.
	100	K402	10	5†	
Kodachrome F*	50	K401F	10†	12†	Color positive, use with flash bulbs, for projection slides. See Instructions for Flash Guide Nos.
	100	K402F	10†	12†	
Ektachrome	100	E402	32	12†	Color positive for projection slides, can be developed by user.
Ektachrome F	100	E402F	16†	16†	Color positive, use with flash bulbs, can be developed by user. See Instructions for Flash Guide Nos.
Tri-X	50	TX401	200	160	Ultra high speed negative, widely used in television, news and sports at night under ordinary incandescent illumination.
	100	TX402	200	160	
Panatomic-X	50	FX401	25	20	Extra-fine grain negative, for great enlargement or when extra detail or texture is desired.
	100	FX402	25	20	
Plus-X	50	PX401	80	64	General purpose negative, used in and out-doors.
	100	PX402	80	64	
High Speed Infrared	100	HIR402	—	—	High speed infrared negative. Use with filter. See Instructions for exposure recommendations.
Infrared	50	IR401	—	20†	With filter, records infrared radiation. Used for distant landscapes to cut atmospheric haze; also medical documentary, scientific photography and photomicrography.
Microfile	100	M402	—	16	Extra fine-grain, slow, panchromatic negative, used for copying at more than 10X reduction in size.
Direct Positive	100	DP402	80	64	Fast, low-grained positive for preparation of projection slides by special reversal processing.
Fine Grain Pos. Printer	100	P402	—	16	Slow, fine-grained positive for making projection slides from negatives.

†With recommended filter. *Film in these sizes is available on special order only, subject to a \$50 minimum list for each type.

GEVAERT FILM*

Name of Film	Standard Roll Length In Feet	Order No. or Type	Recommended Exposure Indices		Description
			Daylight	Incand.	
Gevapan 30	100	164	80	50	Medium speed fine grain panchromatic negative for all-purpose photography.
Gevapan 27	100	152	32	20	Extra fine grain slow panchromatic for well defined brilliant blow-ups and microphotography.
Gevapan 33	100	183	125	100	Fast, medium fine grain, panchromatic negative for general photography where depth of field is important.

* For information on where to buy, contact The Gevaert Company of America, Inc., 321 West 54th Street, New York 19, N. Y.; 150 North Wacker Dr., Chicago 6, Ill.; 6370 Santa Monica Blvd., Los Angeles 38, Calif.

ILFORD FILMS

Pan-F	100	—	16	10	Medium speed high resolution panchromatic, medium to high contrast, used for microfilming.
Pan-FP-3	100	—	64	50	Fine-grained long scale panchromatic negative, for general purpose interior and exterior use.
Pan-HP-3	100	—	125	100	High speed, low-grain, medium contrast negative for interior and exterior use under unfavorable lighting conditions.
Pan-HPS	100	—	400	320	Ultra high-speed, low grain, low contrast, for interior and exterior use under adverse lighting conditions.

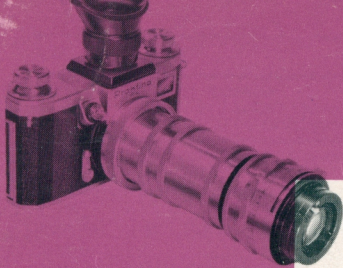
DU PONT FILMS

Name of Film	Standard Roll Length In Feet	Order No. or Type	Recommended Exposure Indices		Description
			Daylight	Incand.	
"Superior" 1	100, 200 400, 1000	904B	25	20	Panchro negative for general exterior and process with ample light.
"Superior" 2	100, 200 400, 1000	926B	80	64	Fine-grained, wide latitude panchro negative, general purpose exterior and interior.
"Superior" 3	100, 200 400, 1000	927B	125	100	Highly sensitive panchro negative for interior and exterior use under limited illumination.
"Superior" 4	100, 200 400, 1000	928B	320	250	Ultra sensitive panchro negative for interior and exterior use under adverse illumination.
Fine Grain Duplicating Negative	400, 1000	908B	—	10	Extra fine-grained slow high-resolution negative for microcopy and duplicating.
Fine Grain Master Positive	400, 800 1000, 1200	828B	—	24	Extra fine-grained positive by special reversal processing used for projection slides.
Release Positive High Speed	2000	803B	—	45	High speed positive by special reversal processing, for super-imposed projection slides.
Fine Grain Low-Contrast Positive	1000, 2000	824B	—	10	Fine grained special purpose, for either negative or positive by special processing for recording from television monitor tubes and oscilloscopes.

BULK FILM PROCESSING

Most photofinishers will handle bulk lengths of black-and-white film. Color film is processed at a "per-running-foot" charge for lengths of 50 feet

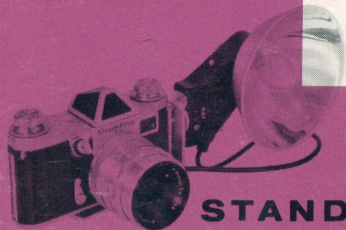
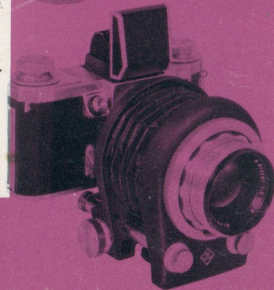
or more. If you encounter difficulty in locating suitable processing facilities, write to our Technical Department.



Praktina_{FX}

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