



COMPOSITION IN CIRCLES

Graflex-Made Picture by

HOBART C. FLASH



GRAFLEX

PRIZE-WINNING

C A M E R A S

GRAPHIC CAMERAS

CENTURY GRAPHIC "23" (2¼x3¼)

Supplied with Grafluk back, focusing panel, film holder and coated lens indicated.

Cat. No.	Focal Length	Lens	Speed	Shutter	Price
Gray Covering, Red Bellows					
CY-51	103 mm. (4¼")	Graftar	f/4.5	cs	\$137.95 ^Δ
CY-50	103 mm. (4¼")	Graftar	f/4.5	cs	144.95 [⊙]
CY-525	101 mm. (4")	Kodak Ektar	f/4.5	800	213.15 [⊙]
CY-554	105 mm. (4½")	Kodak Ektar	f/3.7	#2 gss	212.75 [⊙]

^Δexcluding optical view finder

[⊙]including optical view finder installed

PACEMAKER CROWN GRAPHIC "23" (2¼x3¼)

Supplied with Grafluk back†, film holder and coated lens indicated.

C-725	101 mm. (4")	Kodak Ektar	f/4.5	800	256.15
C-754	105 mm. (4½")	Kodak Ektar	f/3.7	#2 gss	255.75

PACEMAKER SPEED GRAPHIC "23" (2¼x3¼)

Supplied with Grafluk back†, film holder and coated lens indicated.

S-725	101 mm. (4")	Kodak Ektar	f/4.5	800	293.65
S-754	105 mm. (4½")	Kodak Ektar	f/3.7	#2 gss	293.25

PACEMAKER CROWN GRAPHIC "34" (3¼x4¼)

Supplied with Grafluk back†, with Ektalite, film holder and coated lens indicated.

Cat. No.	Focal Length	Lens	Speed	Shutter	Price
CE-83	135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxs	\$263.00
CE-831	135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxx	249.00
CE-859	127 mm. (5")	Kodak Ektar	f/4.7	#1 gsc	255.50
CE-862	152 mm. (6")	Kodak Ektar	f/4.5	#3 kxs	270.00
CE-87	162 mm. (6¾")	Graflex Optar	f/4.5	#3 gxs	282.00

PACEMAKER SPEED GRAPHIC "34" (3¼x4¼)

Supplied with Grafluk back†, with Ektalite, film holder and coated lens indicated.

Cat. No.	Focal Length	Lens	Speed	Shutter	Price
SE-83	135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxs	\$312.00
SE-831	135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxx	298.00
SE-859	127 mm. (5")	Kodak Ektar	f/4.7	#1 gsc	304.50
SE-862	152 mm. (6")	Kodak Ektar	f/4.5	#3 kxs	319.00
SE-87	162 mm. (6¾")	Graflex Optar	f/4.5	#3 gxs	331.00

PACEMAKER CROWN GRAPHIC "45" (4x5)

Supplied with Grafluk back†, with Ektalite, film holder and coated lens indicated.

Cat. No.	Focal Length	Lens	Speed	Shutter	Price
C-93	***135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxs	\$263.00 ^Δ
C-931	***135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxx	249.00 ^Δ
C-959	***127 mm. (5")	Kodak Ektar	f/4.7	#1 gsc	255.50 ^Δ
C-962	152 mm. (6")	Kodak Ektar	f/4.5	#3 kxs	270.00 ^Δ
C-97	162 mm. (6¾")	Graflex Optar	f/4.5	#3 gxs	282.00 ^Δ

PACEMAKER SPEED GRAPHIC "45" (4x5)

Supplied with Grafluk back†, with Ektalite, film holder and coated lens indicated.

Cat. No.	Focal Length	Lens	Speed	Shutter	Price
S-93	***135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxs	\$312.00 ^Δ
S-931	***135 mm. (5¼")	Graflex Optar	f/4.7	#2 gxx	298.00 ^Δ
S-959	***127 mm. (5")	Kodak Ektar	f/4.7	#1 gsc	304.50 ^Δ
S-962	152 mm. (6")	Kodak Ektar	f/4.5	#3 kxs	319.00 ^Δ
S-97	162 mm. (6¾")	Graflex Optar	f/4.5	#3 gxs	331.00 ^Δ

See page 3 for symbols.

***See page 8.

†Graflex back optional on special order, same price as above.

ΔLess optical viewfinder 9132 and clip 9133.

ACCESSORIES for

ACCESSORIES for	CENTURY		GRAPHIC		GRAPHIC "23"		GRAPHIC "34"		GRAPHIC "45"	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
RANGEFINDERS AND FOCUS LIGHTS (includes installation)										
Graphic Rangefinder with Rangelite and Parallax correcting Viewfinder installed on new Pacemaker Graphic "45".....	.....	.....	.....	.....	.....	.....	.....	.....	3002	\$37.95
Extra Cam for any Lens Listed Below.....	.....	.....	.....	.....	.....	.....	.....	.....	3011	2.00
Service Charge for Optically Measuring Focal Length.....	.....	.....	.....	.....	.....	.....	.....	.....	9473	2.00
Graphic Rangefinder (1.5X power) for Graphic Rangefinder.....	.....	.....	.....	.....	.....	.....	.....	.....	3055	2.95
Wide Angle Viewfinder Adapter for Graphic Rangefinder.....	.....	.....	.....	.....	.....	.....	.....	.....	3060	4.95
Kalart Rangefinder.....	3101	\$36.25	3103	\$36.25	3100	\$32.95	.....	.....	3100	32.95
Kalart Focuspot Model G with Graflite Cord.....	3173	9.95	3173	9.95	3173	9.95	.....	.....	3173	9.95
Hugo Meyer Series P Rangefinder.....	.....	.....	.....	.....	3301	31.50	.....	.....	3301	31.50
Hugo Meyer Focalite for Graflite Battery Case.....	.....	.....	.....	.....	3373	10.25	.....	.....	3373	10.25
FILM HOLDERS										
Film Pack Adapter.....	1232	9.75	1232	9.75	1233	10.75	.....	.....	1234	10.95
"23" Roll Film Holder.....	1246	21.50	1246	21.50	1247	23.95	.....	.....	1248	23.95
"22" Roll Film Holder.....	1249	21.50	1249	21.50	1250	23.95	.....	.....	1251	23.95
Sheet Film Holder.....	1212	4.95	1212	4.95	1213	4.95	.....	.....	1284	4.95
Grafmatic Film Holder.....	1266	17.95	1266	17.95	.....	.....	.....	.....	1268	24.95
Plate Holder.....	.....	.....	.....	.....	.....	.....	.....	.....	1224	7.35
Graphic Polaroid Back (For Graflok only) (See 9288).....	.....	.....	.....	.....	.....	.....	.....	.....	9108	83.50
Lantern Slide Holder.....	.....	.....	.....	.....	1227	7.35	.....	.....	.....	.....
ACCESSORY LENSES										
② (3 1/2") 90mm Graflex W.A. Optar f/6.8.....	No. 1 gxs.....	.....	.....	.....	.....	.....	221	106.65	221	106.65
② 100mm Kodak Wide Field Ektar f/6.3.....	No. 2 gss.....	.....	.....	.....	.....	.....	135	140.00	135	140.00
② 18" 203mm Kodak Ektar f/7.7.....	No. 2 gss.....	.....	.....	.....	.....	.....	173	92.50	173	92.50
② 18" 202mm Graflex Tele Optar f/5.6.....	bm.....	.....	270	99.50	.....	.....	270	99.50	.....	.....
② 18" 202mm Graflex Tele Optar f/5.6.....	No. 2 gxs.....	271	149.00	271	149.00	.....	271	149.00	.....	.....
② 10" 25cm Graflex Tele Optar f/5.6.....	bm.....	.....	281	132.00	.....	.....	281	132.00	281	132.00
② 10" 25cm Graflex Tele Optar f/5.6.....	No. 3 gxs.....	284	185.00	284	185.00	.....	284	185.00	284	185.00
② 10" 25 cm Graflex Tele Optar f/5.6.....	No. 3 gxx.....	283	169.00	283	169.00	.....	283	169.00	283	169.00
② 15" 38cm Graflex Tele Optar f/5.6.....	bm.....	.....	.....	.....	.....	.....	.....	.....	294	195.00
② 15" 38cm Graflex Tele Optar f/5.6.....	No. 4 Alx.....	.....	.....	.....	.....	.....	.....	.....	292	223.00
① Pacemaker Lensboard for lens as indicated										
② Pacemaker Lensboard with shutter release arm for shutter indicated										
CARRYING CASES AND SUNDRY ACCESSORIES										
Vulcanoid Compact Carrying Case.....	.....	.....	.....	.....	.....	.....	4213	21.95	4214	21.95
Vulcanoid Handicase.....	.....	.....	.....	.....	.....	.....	4236	22.95	4246	24.50
Custom Case—Fine leather—Velvet lined.....	4228	34.50	4228	34.50	.....	.....	.....	.....	.....	.....
Pacemaker Blank Metal lensboards.....	9151	.85	9151	.85	9171	1.00	.....	.....	9181	1.10
Lensboards for Standard Shutters.....	.....	.85	.....	1.10	.....	1.25	.....	.....	.....	1.35
Adapter for Graphic "45" lensboards (for 4x5 Anniversary Graphics).....	.....	.....	.....	.....	.....	.....	.....	.....	9230	5.20
Variable Off-center Lensboard for 90mm W.A. Optar lens.....	.....	.....	.....	.....	.....	.....	.....	.....	9180	6.25
Viewfinder for Wide Angle lenses.....	9106	8.15	9106	8.15	9106	8.15	.....	.....	9106	8.15
Optical Viewfinder (specify lens) (short).....	9131	7.00	9131	7.00	9131	7.00	.....	.....	9131	7.00
Optical Viewfinder (specify lens) (long).....	9132	7.00	9132	7.00	9132	7.00	.....	.....	9132	7.00
Mounting Clip required by 9106, 9131, 9132.....	9133	.40	9133	.40	9133	.40	.....	.....	9133	.40
Graflok Back less 4-sided viewing hood for Pacemaker.....	.....	.....	9292	13.95	9290	21.45	.....	.....	9115	21.95
Polaroid Back Focusing Panel (less viewing hood 9146).....	.....	.....	.....	.....	.....	.....	.....	.....	9288	13.95
Removable Viewing hood for 9288.....	.....	.....	.....	.....	.....	.....	.....	.....	9146	6.20
Dividing back for 2-on 4x5 Graflex Back.....	.....	.....	.....	.....	.....	.....	.....	.....	9014	23.65
Dividing back for 2-on 4x5 Graflok Back.....	.....	.....	.....	.....	.....	.....	.....	.....	9109	29.50
Grafalarger Back (110 Volt A.C., 60 Cycle).....	6017	39.75	6017	39.75	6018	39.75	.....	.....	6019	39.75
Grafalarger Stand.....	6040	19.50	6040	19.50	6040	19.50	.....	.....	6040	19.50
Baseboard for Grafalarger Stand.....	6039	12.75	6039	12.75	6039	12.75	.....	.....	6039	12.75
Graphic Pan Tilt Tripod Head (for Crown Tripod).....	4610	18.85	4610	18.85	4610	18.85	.....	.....	4610	18.85
2 1/4x2 1/4 Negative Carrier for Grafalarger.....	.....	.....	.....	.....	.....	.....	.....	.....	6026	2.05
2 1/4x3-1/4 Negative Carrier for Grafalarger.....	.....	.....	.....	.....	.....	.....	.....	.....	6027	2.05
Graflex Speed Tripod.....	8094	22.50	8094	22.50	.....	.....	.....	.....	.....	.....
"Graphic-Graflex Photography".....	5625	6.00	5625	6.00	5625	6.00	5625	6.00	5625	6.00

1 Specify lens and shutter to be used.

Shutter Symbols: gxs—Graphex Shutter with full synchronization, gxx—Graphex (X) Shutter, gss—Flash Supermatic Shutter, kxs—Supermatic (X) Shutter, Alx—

No. 4 Alphax Synchro Shutter, bm—Barrel Mount for use with Speed Graphic only, gsc—Graphic Synchro-Compur Shutter, cs—Century Shutter, 800—Kodak Synchro Rapid 800 Shutter.

GRAFLITE UNITS

UNIT FOR SHUTTERS with Built-in Synchronization

Cat. No.	Price
GRAFLITE	
2725 2-cell with 5" reflector, heavy duty clamps.....	\$23.45 ³
2727 2-cell with 7" reflector, heavy duty clamps.....	23.45 ³
2735 3-cell with 5" reflector, heavy duty clamps.....	23.70 ³
2737 3-cell with 7" reflector, heavy duty clamps.....	23.70 ³
GRAFLITE, JR.	
2850 with 5" reflector and Universal Mounting Bracket...	\$15.85 ²
2851 with 5" reflector and Reflex Mounting Bracket.....	16.25 ²
2852 with 5" reflector and Graflite Top and Bottom Clamps	17.95 ²

² does not include cord (see pg. 6)

³ does not include cord or mounting plate (see pg. 6)

COMPLETE GRAFLITE SYNCHRONIZERS FOR SHUTTERS Utilizing Solenoid Synchronization

(Price includes installation and synchronization).

Cat. No.	Model	Price
(Includes 3-cell battery case, heavy duty clamps, Solenoid and mount, and 20" Solenoid Cord)		
2736	with 5" reflector.....	\$40.35*
2738	with 7" reflector.....	40.35*
(Includes 3-cell battery case, heavy duty clamps, Solenoid and mount, and 36" Solenoid Coiled Cord)		
2836	3-Cell with 5" reflector.....	\$42.80*
2838	3-Cell with 7" reflector.....	42.80*

*Includes installation, synchronization and cord but no mounting plate (see pg. 6)
When 2 1/4x3 1/4 and smaller cameras are ordered with Graflite, the prices for Graflite are modestly higher, due to the Federal Excise Tax which is then applicable. See your Graflex Dealer for details.

STROBOFLASH

STROBOFLASH OUTFITS

Stroboflash Outfits include lamp head, rubber battery case adapter, L-Bracket and Power Pack with integral Koiled Kord. Order connecting cord to camera from Page 6.

Cat. No.		Price
2006	Stroboflash I complete with dry batteries.....	\$104.90
2007	Stroboflash II complete with dry batteries.....	119.40
2009	Stroboflash IV with 4-way Power Selector, Complete with dry batteries.....	185.85
2010	Stroboflash II, complete with Nicad AC Converter including 4 volt Nickel Cadmium Battery.....	199.50
2011	Stroboflash IV, complete with Nicad AC Converter including 4 volt Nickel Cadmium Battery.....	265.00

STROBOFLASH ACCESSORIES

2025	Stroboflash Lamp Head, for extension use.....	47.50
2050	20' high voltage extension cord for Stroboflash I, II, III, and IV...	5.95
2067	Battery Case Adapter, aluminum.....	2.25
2147	Phototube assembly complete includes tube, socket and small carrying case.....	9.90
2070	Mounting tube (for Graflite and similar battery case mounting clamps.....	1.10
2101	Power Pack only for Stroboflash I (less batteries).....	47.50
2102	Power Pack only for Stroboflash II (less batteries).....	62.00
2106	Power Pack for Stroboflash IV with 4-way Power Selector, (less batteries).....	133.50
2107	Power Top for Stroboflash IV with 4-way Power Selector. Converts Battery Compartment of Stroboflash II, and III to Stroboflash IV	125.50
2089	Nicad AC Converter, including 4 volt Nickel Cadmium Battery (2094).....	102.00
2090	Nicad AC Converter less battery.....	80.00

BATTERIES

2093	240-volt battery for Stroboflash I, (2 required) each.....	7.95
2092	225-volt battery for Stroboflash II, III, and IV (2 required) each..	9.95
2094	Nickel Cadmium Battery (for Nicad AC Converter)	22.00
2095	Battery booster for Stroboflash I, II, III and IV.....	29.95
2096	Battery analyzer for Stroboflash I, II, III, and IV.....	29.95
2190	MDL 2 Fuse-tron for Stroboflash II.....	.25
2194	MDL 1/4 Fuse-tron for Stroboflash III and IV.....	.25
2175	Dow Corning No. 4 Compound, 1 Oz. tube.....	1.00

CLAMPS

2075	Universal Quick Change Clamp Assembly.....	9.95
2078	C-Clamp (included in 2075, but usable separately).....	3.95
2081	Adjustable swivel (included in 2075, but usable separately)....	3.95
2074	Right Angle Clamp.....	1.25

AMPRO STYLIST DELUXE PROJECTOR

Cat. No.		Price
3472	Ampro Stylist Deluxe 16mm Sound Projector, includes projector, case cover with built-in 8" Alnico 5 PM speaker, cleaning brush, box of fuses, 40' speaker cable, 400' reel, bottle of Ampro oil, and instruction book.....	\$419.85

ACCESSORIES

3493	1600' Take-Up Reel.....	2.80
3492	Slip Cover.....	8.50
3481	Dynamic Sonodyne Microphone and 15' cable.....	39.50
3466	Microphone Utility floor stand, adjustable height.....	16.50
3484	Microphone Desk Stand with Detachable Handle.....	3.50
3446	25' Speaker Cord.....	5.75
3448	50' Speaker Cord.....	9.00

AMPRO TAPE RECORDERS

Cat. No.		Price
3758	Ampro Hi-Fi Two Speed Tape Recorder Model 758 (speeds 3 3/4 and 7 1/2 i.p.s.).....	\$249.95
3759	Ampro Hi-Fi Two Speed Tape Recorder Model 758-T (same as Cat. No. 3758 above, but with powerful 3-tube AM radio tuner	284.45
3777	Matching Console Speaker Enclosure.....	69.95

ACCESSORIES

3798	Zippered Case Cover for Ampro Hi-Fi Tape Recorders.....	6.95
3738	Forward-Reverse Foot Control.....	29.50
3740	Hi-Fi Systems Cord for connecting Hi-Fi tape recorders into Hi-Fi systems.....	3.75
3739	Monitoring Earphone.....	12.50
3733	Dual-Input Mixers.....	8.95
3782	Remote Control Mike.....	22.50
3789	Ceramic Microphone Replacement.....	16.95
3749	Extension Connecting Cord.....	2.25
3745	25' Microphone Extension Cords.....	4.95

FLASH EQUIPMENT

CONNECTING CORDS for Graflite and Strobflash

Cat. No.		Price
2701	20" Graflite Synchronized Shutter (ASA double post) cord.**.....	\$2.00
2702	36" Graflite Synchronized Shutter (ASA double post) cord**.....	2.00
2810	36" Graflite Synchronized Shutter Koil Kord (order 2711 clip support)**	3.95
2703	20" Graflite Solenoid Cord.....	2.00
2704	36" Graflite Solenoid Cord.....	2.00
2809	36" Graflite Solenoid Koiled Kord (order 2711 clip support).....	3.95
2711	Koiled Kord clip support.....	.35
2706	15' Graflite Extension Cord for Extension Flash Units.....	2.00
2707	20" Graflite Cord for Model G Switch (twin tip).....	2.00
2808	ASA Bayonet Koiled Kord (Graphic Synchro Compur, Kodak, Ciroflex, etc.).....	3.95
2714	Cap Cord, large (Prontor II).....	2.00
2821	36" Cap Koiled Kord, small for Compur Rapid and Prontor S shutters (not Graphic Synchro Compur).....	3.95
2716	Block Post Cord (Argus C-3).....	2.00
2718	Shoe (B) Cord (Ciro 35 and Universal Cameras).....	2.00
2720	15' Graflite Remote Control Cord with Momentary Switch.....	3.95
2723	Unicord—(Graflex 22—Stereo Realist, Argus 21, Argus C4).....	2.00

**for Graphic and Graflex focal plane shutters and synchronized front shutters with double contact posts.

GRAFLITE BRACKETS AND MOUNTING DEVICES

Cat. No.		Price
HEAVY DUTY BRACKETS		
2753	Rangefinder Encircling Bracket for Pacemaker Graphics 34 and 45 with Kalart or Hugo Meyer Rangefinder.....	\$2.95
2754	Flat Battery Case mounting plate for Graflex Cameras and all Graphics "23" with rangefinder.....	.95
2752	Rangefinder Encircling Bracket for Anniversary Speed Graphics...	2.95
2755	Battery Case mounting bracket for Pacemaker and Anniversary Graphics without rangefinder or Pacemaker Graphic "45" with Graphic Rangefinder.....	1.95
2756	Pair of Pacemaker Handle Lugs, used for Century Graphic without rangefinder, and other cameras.....	1.00
2758	L-Bracket for miniature and folding cameras.....	3.40
2759	Platform Bracket for small reflex cameras.....	3.40
LIGHT WEIGHT BRACKETS		
2757	Universal Mounting Bracket.....	1.95
2760	Reflex Mounting Bracket.....	2.35

GRAFLITE REFLECTORS

Cat. No.		Price
2747	7" Graflite Reflector for Medium Screw Base Lamps.....	6.50
2745	5" Graflite Adjustable Reflector for Bayonet Base Lamps, with removable reflector shell.....	6.50
2743	M-2 reflector insert (3" size, fits 2749, 2745 and similar reflectors).....	1.95
2746	Hinged Shield complete for 5" Graflite and Graflex reflectors....	4.50
2744	Diffusion Disc for hinged shield, No. 2746.....	2.15

GRAFLITE ACCESSORIES AND COMPONENTS

Cat. No.		Price
EXTENSION FLASH		
2778	Graflite Extension Flash Unit with adjustable rubber-covered spring clamp, battery and B-C outlets, including 15' cord, No. 2706, less reflector.	9.95
TELEFLASH		
2024	Teleflash ("Slave"), complete with batteries and C Clamp.....	66.00
2091	Replacement No. 413, 30-volt Minimax battery (4 required), each	1.40
BATTERY CASES		
2772	2-cell Graflite Battery Case, with clamps.....	17.50
2773	3-cell Graflite Battery Case, with clamps.....	17.75
2770	Graflite Jr. Battery Case.....	8.75
2774	Graflite 1-cell extension tube (may be used in multiple).....	2.50
2771	Top and Bottom Clamps for Graflite Battery Cases.....	5.75

PIC FEATHERLITE STANDS

Cat. No.		Price
4707	7' extended, 18" closed, 26 oz.....	17.95
4709	9' extended, 22" closed, 32 oz.....	19.95
4711	11' extended, 26" closed, 38 oz.....	21.95
2049	Portable Stand Case (holds six stands).....	9.75

FLASH EQUIPMENT

B-C CARTRIDGE

for Graflite Jr., Graflite and similar battery cases.

2795	Graflex B-C Cartridge, less battery, for 2-cell size D battery case.	3.85
2796	Graflex B-C Cartridge, less battery, for 3-cell size D battery case.	3.95

SOLENOIDS AND MOUNTS

2531	No. 2 Graflex Solenoid Release, less mount.....	12.25
	Solenoid Release Mounts (type depends upon model and size of camera and shutter).....	1.50

GRAFLASH UNITS

Cat. No.		Price
8044	Graflash B-C for Graflex "22" Cameras (with special foot).....	\$9.95
8048	Graflash B-C with Wide Acceptance Foot [□]	9.95
8046	Graflash PL for Ciro 35 only.....	6.50
8047	M-2 Graflash B-C with Wide Acceptance Foot [□]	9.95
8050	Universal Graflash B-C with Flat Universal Mounting Bracket, for cameras requiring connecting cord fitting, less cord.....	9.95

[□]Wide Acceptance Foot fits Graflex "22" Revere Stereo, Stereo Realist, Argus C-4, and others. (Not for Ciro 35).

SHUTTER DATA

Shutter	Speeds	Built-In Synchronization			Sync. Shutter Cord	possible [†] solenoid use
		X	F	M		
Prontor SVS	1 sec.-1/300 B	all speeds	1 sec.-1/100	all speeds	2723	No
Century (Early Model)	1/10-1/200 T&B	*	all speeds	1/10-25	2701	No
Century (current)	1/10-1/200 T&B	all speeds	1/10-1/100	1/10-1/25	2701	No
#1 & #2 Graphex-full Sync.	1 sec.-1/400 T&B	all speeds	1 sec.-1/50	all speeds	2701	Yes
#3 Graphex-full Sync.	1 sec.-1/200 T&B	all speeds	1 sec.-1/50	all speeds	2701	Yes
#1 & #2 Graphex (X)	1 sec.-1/400 T&B	all speeds	No	No	2701	Yes
#3 Graphex (X)	1 sec.-1/200 T&B	all speeds	No	No	2701	Yes
#1 Graphic Synchro-Compur	1 sec.-1/400 T&B	all speeds	1 sec.-1/50	all speeds	2808	Yes
#4 Alphax sync.	1/2-1/50 T&B	all speeds	No	all speeds	2701	No
#1 & #2 Flash Supermatic	1 sec.-1/400 T&B	all speeds	all speeds	all speeds	2701	No
#2 Supermatic (X)	1 sec.-1/400 T&B	all speeds	No	No	2701	Yes
#3 Supermatic (X)	1 sec.-1/200 T&B	all speeds	No	No	2701	Yes
Synchro. rapid (800)	1 sec.-1/800 B	all speeds	1 sec.-1/400	all speeds	2808	No
#2 Acme Synchro	1 sec.-1/300 T&B	all speeds	all speeds	all speeds	2701	No

Note: High speed electronic flash units tripped by a mechanical relay should be used in connection with solenoid operation only.

*Consult manufacturer of unit for special 5 ms synchronizing accessory

[†]Use 2703 connecting cord with solenoid

(X) SHUTTERS. Supermatic (X) (kxs) and Graphex (X) (gxs) Shutters have contacts for Strobflash and similar electronic flash units. For use with flash lamps and mechanical-relay operated electronic flash units an accessory solenoid should be used.

FULLY SYNC'D SHUTTERS. Flash Supermatic (gss), Kodak Synchro Rapid "800" and fully synchronized Graphex (gxs) shutters have built-in adjustable delay to accommodate the ignition delay of all types of flash lamps. The Graphex shutter (gxs) may also be solenoid synchronized. Kodak Synchro Rapid "800" shutter is supplied with TBI Cable Release to permit ground glass focusing and time exposures. This shutter has a bayonet flash connector accepting Graflite cord No. 2808.

PRONTOR SVS (Graphic 35) and GRAPHIC SYNCHRO COMPUR shutters have built-in adjustable delay to accommodate ignition delay of M and X flash (see below). The latter shutter accepts cord No. 2708.

CENTURY SHUTTER—This is a single action, self-cocking shutter. Early Models (not color coded) incorporate F-M synchronization: type F lamps, all speeds—type M, 1/25 and 1/10. The use of a solenoid for synchronization is not recommended with this shutter.

Type "X"; High Speed Electronic Units Not Tripped By Relay

Type "F" (5 millisecond)—Gas Filled; "SM," "SF"; Bayonet base

Type "M" (20 millisecond)—Wire or Foil Filled No. 5, No. 25..... Bayonet Base

No. 11, No. 22, No. 2, Press 40, etc..... Screw base

Shutters with built-in synchronization should be attached to the "shutter" or series outlet of battery case.

LENS DATA

The lenses listed as standard equipment for Graflex and Graphic cameras are chosen to meet a broad range of requirements. Their speed and focal lengths suit them to general use, and they will produce outstanding negatives if fitted properly with the benefit of the specialized equipment and experience of Graflex craftsmen.

The factors to consider in selecting a lens are (1) the size of film, (2) the kind of picture to be made most generally, and (3) the design of the camera.

The size of film determines the "normal" focal length. An ordinary lens is designed to cover sharply at full aperture a film having a diagonal approximately equal to its focal length; as the lens is stopped down it is able to cover larger films.

The following table serves as a rough guide in selecting a lens for average use:

CORRESPONDING FOCAL LENGTHS IN INCHES AND CENTIMETERS

Diagonals of common films	Graphic average focal length		Graflex* average focal length	
in.	in.	cm.	in.	cm.*
2¼x3¼—3.9	4⅞	10.5	5½*	14.
3¼x4¼—5.3	5¼	13.5	6*	15.2
4 x 5 —6.4	6¾	16.2	7½*	19.0

*The design of the Graflex requires focal lengths slightly greater than normal to allow for the swing of the mirror.

***Although 6¾" equals the diagonal of 4 x 5 negatives, many news photographers and other Graphic users prefer the greater angular coverage and depth of field of 5¼" lenses, stopping down to make the corners sharp or ignoring the slight unsharpness at the corners at full aperture.

The type of picture is the next consideration. Ordinarily the "normal" focal length and a speed of f/4.5 should be adequate.

Upon occasion a speed faster than f/4.5 may be needed. An f/3.5 lens opening is approximately 65% (less than 1 full diaphragm stop) faster than f/4.5. It does permit a somewhat shorter exposure such as 1/200 instead of 1/125, but it should be borne in mind that the depth of field is reduced at larger apertures.

The size of image varies directly as the focal length of the lens. If a 4" lens gives an image 2" high, an 8" lens will give a 4"-high image of the same object at the same distance.

Long-focus lenses are those having a focal length materially longer than the diagonal of the film on which they are used. There is a special type of long-focus lens, known as a *telephoto*, which requires less bellows extension than ordinary lenses of the same nominal focal length; they are desirable because of their much greater compactness and convenience. Sports pictures, objects at a distance that cannot be approached closely enough, and portraits, require long-focus or telephoto lenses.

Lenses with a focal length materially less than the diagonal of the film are *short-focus* or *wide-angle* lenses. They must be of special design to cover the relatively large negative, and generally have a speed of f/6.8 or less. Interiors and large objects at close range require wide-angle lenses. The Graphic will accommodate wide-angle lenses, but the mirror of the Graflex interferes with their use in those cameras.

Other things being equal, a shorter focal length will have a wider angle of view for a given size film and a greater depth of field for a given aperture.

The design of the camera imposes certain limitations on size, focal length, and type of mount. Both the Graphic and Graflex will accommodate telephoto lenses, but there is a limit to the minimum focal lengths that can be used. Barrel mounts are used almost exclusively in the Graflex, and shutters generally in the Graphic. For specific information write to the Camera manufacturer: Graflex, Inc., Customer Service Department, Rochester 8, New York.

GRAFLEX CAMERAS

Supplied with film pack adapter.

Cat. No.		Price
LA-321	3¼x4¼ Revolving Back Super D Graflex including Kodak Ektalite Field Lens ⁵ and fitted with 152 mm. (6") Kodak Ektar f/4.5 lens in automatic diaphragm mount.....	\$335.25
LA-332	with 190 mm. (7½") Graflex Optar f/5.6 lens in automatic diaphragm mount.....	335.00
LA-432	4x5 SUPER D GRAFLEX with revolving GRAFLEX Back, Ektalite Field Lens ⁵ and GRAFLEX Film Pack Adapter, fitted with 190mm (7½") GRAFLEX OPTAR f/5.6 in automatic diaphragm mount	335.00
LK-432	4x5 SUPER D GRAFLEX with revolving GRAFLOK Back, Ektalite Field Lens ⁵ and GRAPHIC Film Pack Adapter, fitted with 190mm (7½") GRAFLEX OPTAR f/5.6 in automatic diaphragm mount....	365.00
Special conversion of 4x5 Revolving GRAFLEX Back to Revolving GRAFLOK Back on new or used SUPER D GRAFLEX Cameras accomplished only at GRAFLEX Service Department.....		45.45

GRAFLEX ACCESSORIES

LENSES

Cat. No.		Price
281	25 cm. (10") Graflex Tele-Optar f/5.6 lens in barrel for 3¼x4¼.....	\$132.00
9201	Lensboard for above telephoto lens #281.....	1.25
294	38 cm. (15") Graflex Tele-Optar f/5.6 lens in barrel for 4x5.....	195.00
9217	Metal Lensboard for above telephoto lens #294...	3.80

FLASH EQUIPMENT

2754	Graflite mounting plate (for attaching battery cases to camera)	\$.95
2725	Graflite 2-cell unit with 5" reflector, cord extra....	23.45
2727	Graflite 2-cell unit with 7" reflector, cord extra....	23.45
2701	Graflite 20" Synchronized Shutter (ASA double post) cord	2.00

For additional Graflite Flash Equipment see pages 3 and 4.

FILM HOLDERS

	3¼x4¼		4x5	
	Cat. No.	Price	Cat. No.	Price
Graflex Film Pack Adapter.....	1133	\$11.25	1134	\$11.45
Graflex "23" Roll Film Holder...	1147	23.95	1148	23.95
Graflex "22" Roll Film Holder...	1150	23.95	1151	23.95
Grafmatic Film Holder—(For Graflex Back)			1168	24.95
Graflex Sheet Film Holder.....	1113	7.80	1114	7.95
Graflex Plate Holder.....	1123	7.80	1124	7.95
1268 GRAFMATIC Holder (For Graflok Back).....				\$24.95
1284 RITEWAY Film Holder (For Graflok Back).....				4.80
1234 GRAPHIC Film Pack Adapter (For Graflok Back)....				10.95

SUNDRY ACCESSORIES

4610	Graphic Pan Tilt Tripod Head (for Crown Tripod)....	\$18.85
6019	Graflarger Back for 4x5 (No. 6018 for 3¼x4¼)....	39.75
6040	Graflarger Stand.....	19.50
4448	Vulcanoid Handicase for 4x5.....	24.95

GRAPHIC VIEW II CAMERAS

Cat. No.	Price
Graphic View II Camera with Backs listed below, with 1 film holder, Pan-Tilt Base and Fibre Carrying Case which accepts the camera complete with 12 holders, additional lenses, etc., without lens:	
R-24 With 4x5-4x5 Graflok Back (9254) and removable viewing hood (9262).....	\$189.50
RX-20 With 4x5-4x5 Graflex Back (9258).....	180.00
R-21 With 4x5-3¼x4¼ Graphic Back (9257).....	180.00
RX-21 With 4x5-3¼x4¼ Graflex Back (9259).....	180.00

GRAPHIC VIEW ACCESSORIES

LENSES AND LENS ACCESSORIES

Cat. No.	Price
151 152mm (6") Kodak Ektar f/4.5, #3 Supermatic x shutter.....	\$106.00
261 162mm (6¾") Graflex Optar f/4.5, #3 synchronized Graphex shutter.....	118.00
173 203mm (8") Kodak Ektar f/7.7, #2 Flash Supermatic shutter.....	92.50
221 3½" (90 mm.) Graflex W. A. Optar f/6.8, #1 synchronized Graphex shutter.....	106.65
135 100 mm. (4") Kodak Wide Field Ektar f/6.3, #2 Flash Supermatic shutter.....	140.00
9234 Recessed metal lens board for 90 mm. W. A. Optar lens.....	3.80
9231 Extra 4x4 metal blank lensboard.....	3.80
9230 Lensboard adapter to accept Pacemaker Graphic "45" lensboard.....	5.20
9265 Accordion-type lens shade.....	22.50

BACKS (supplied as accessories)

Cat. No.	Price
9254 4x5-4x5 Graflok Back with Ektalite Field Lens, less removable viewing hood (less holder).....	\$ 26.40
9262 Removable viewing hood for 4x5 focusing panel.....	6.60
9257 4x5-3¼x4¼ Graphic Back with Ektalite Field lens (less holder).....	23.50
9258 4x5-4x5 Graflex Back with Ektalite Field lens (with focusing panel less holder).....	23.50
9259 4x5-3¼x4¼ Graflex Back with Ektalite Field lens (with focusing panel less holder).....	23.50

FILM HOLDERS—4x5, (for 3¼x4¼ see page 3)

Film Holders	Graflex Cat. No.	Price	Graphic Cat. No.	Price
Film Pack Adapter.....	1134	\$11.45	1234	\$10.95
Sheet Film Holder.....	1114	7.95		
Riteway Film Holder.....			1284	4.95
Grafmatic Film Holder.....	1168	24.95	1268G	24.95G
Plate Holder.....	1124	7.95	1224	7.35
"23" Roll film holder.....	1148	23.95	1248	23.95
"22" Roll film holder.....	1151	23.95	1251	23.95
Graphic Polaroid Back.....			9108G	83.50G
Polaroid Back Focusing Panel (less viewing hood 9146, 9288).....				13.95
Removable Viewing Hood for 9288, 9146.....				6.20

G—Fits Graflok Back only.

SUNDRY ACCESSORIES

Cat. No.	Price
9109 4x5 Graflok Dividing Back.....	\$29.50
9014 Dividing Back for 2-on 4x5 Graflex Back.....	23.65
6019 Graflarger for 4x5 (110 Volt A.C., 60 cycle).....	39.75
6018 Graflarger for 3¼x4¼ (110 Volt A.C., 60 cycle)....	39.75
6040 Graflarger Stand.....	19.50
5625 "Graphic-Graflex Photography".....	6.00

GRAFLEX "22" CAMERAS¹⁰

Cat. No.	Price
MODEL 200	
CL-8160 (Gray covering) f/3.5 lens, Century Shutter ⁷	\$ 74.50
CL-8165 (CL-8160) with carrying case and Graflash PL*...	89.50
CL-8168 (CL-8160) with carrying case and Graflash BC*..	92.50
CL-8171 (CL-8160) with carrying case and M-2 Graflash BC*.....	92.50
MODEL 400	
CL-8161 (Gray covering) f/3.5 lens, Graphex Shutter ⁸	94.50
CL-8167 (CL-8161) with carrying case and Graflash PL*...	109.50
CL-8170 (CL-8161) with carrying case and Graflash BC*..	112.50
CL-8173 (CL-8161) with carrying case and M-2 Graflash BC*.....	112.50

*Listings not packaged as kits.

⁷Speeds 1/10-1/200 T&B "X"-"F"-"M" Synchronization.

⁸Speeds 1-1/400 T&B "X"-"F"-"M" Synchronization.

¹⁰All Graflex "22" cameras are equipped with field lens under the ground glass for a brighter image, easier focusing, easier composition.

See page 7 for details about shutter.

GRAFLEX "22" ACCESSORIES

Cat. No.	Price
8012 Carrying Case.....	\$ 9.50
8013 Graflex Carryall Case.....	19.95
8044 Graflash B-C Flash Unit (battery extra).....	9.95
8082 Combination lens shade and adapter ring with leather carrying case (takes Series 5 filters). (For 200 & 400)	3.20
8083 Combination lens shade and adapter ring with leather carrying case (takes Series 5 filters). (For Model 400F)	3.20
8084 3-filter kit for color film (Skylight, 81C, 85) Ser. 5....	8.00
8085 3-filter kit for black and white (K-2, X-1, A) Ser. 5....	8.00
8094 Graflex Speed Tripod.....	22.50
8060 Double lenscover. (For Models 200 & 400).....	1.50
8065 Double lenscover. (For Model 400F).....	1.50
5110 7" Cloth Covered Cable release.....	.60
5108 7" Kodak Metal cable release.....	1.05
5632 Photography with the Graflex "22".....	3.00
Graflite Combination for Solenoid Operation (400 only)	
2735 3-Cell Battery Case, 5" Reflector, clamps.....	23.70
2759 Platform Bracket.....	3.40
2703 Solenoid Cord.....	2.00
2531 Solenoid Release.....	12.25
8049 Solenoid Mount for Graflex 22-400.....	1.50

See pages 3 and 4 for Graflite Flash Listings.

GRAPHIC 35

Cat. No.	Price
CM-8120 Graphic 35 camera only, with push button focusing, Prontor SVS shutter, 50mm Graflar f/3.5 lens (31.5mm filter mount).....	\$77.50
CM-8125 Graphic 35 camera only, with push button focusing, Prontor SVS shutter, 50mm Graflar f/2.8 lens (31.5mm filter mount).....	87.50
CM-8121 Graphic 35 outfit including camera, (CM-8120), carrying case, and Graflex PL flash unit.....	89.50
CM-8126 Same as above with Graphic 35 with f/2.8 lens (CM-8125).....	99.50
Note: Other Graphic 35 outfits are available with Graflash BC flash units at slightly higher cost.	

ACCESSORIES FOR GRAPHIC 35

Cat. No.	Price
8029 Carrying Case for Graphic 35.....	\$ 7.50
8045 Graflash PL Flash Unit, less penlite batteries.....	6.50
8180 Lens Shade and filter kit with Screw-in adapter ring in leather case with skylight, 85-C and yellow (K-2) filters.....	14.75

¹¹Less Batteries

GRAPHIC 35 ACCESSORIES—Continued

Cat. No.		Price
8130	Proximeter I in leather case (close-up attachment)....	22.95
8131	Proximeter II in leather case (close-up attachment)...	22.95
8094	Graflex Speed Tripod.....	22.50
3500	Graflex Constellation Slide Projector (manual model).	67.75
3501	Graflex Constellation Slide Projector (electric model).	89.75
3540	Carrying case for Graflex Constellation Slide Projector	9.95
3550	Slide binders, pkg. of 100 double frame.....	5.95
3552	Slide binders, pkg. of 20 double frame.....	1.45

STEREO GRAPHIC

CO-8320	Stereo Graphic Camera only.....	\$49.50
CO-8321	Stereo Graphic with carrying case and Graflash PL Flash Unit.....	64.50
CO-8322	Stereo Graphic with carrying case and Graflash BC Flash Unit.....	67.95
CO-8323	Stereo Graphic with carrying case and M-2 Graflash BC Flash Unit.....	67.95

ACCESSORIES FOR STEREO GRAPHIC

8329	Carrying Case for Stereo Graphic.....	\$ 8.50
8352	Stereo Graphic Viewer, Complete, less batteries....	9.95
8380	Pair of Lens Shades in slip-on mounts.....	3.50
8381	Pair of haze filters in slip-on mounts.....	5.00
8383	Pair of 85-C Filters in slip-on mounts.....	5.00
8094	Graflex Speed Tripod.....	22.50
8013	Graflex Carry-all Case for Camera, Flash, Lamps, etc.	19.95

CIRO 35 ACCESSORIES

8031	Carrying Case.....	\$ 6.50
8064	Lens cap for Model T.....	.85
8046	Graflash P-L for Ciro 35 only ¹¹	6.50
8080	Combination lens shade and adapter ring with leather case for Model R & S (takes Series 5 filters).....	3.20
8081	Combination lens shade and adapter ring with leather case for Model T (takes Series 5 filters).....	3.20
8084	3-Filter kit for color film (Skylight 81-C, 85) Ser. 5.....	8.00
8085	3-Filter kit for black-and-white film (K-2, X-1, A) Ser. 5.....	8.00
8094	Graflex Speed Tripod.....	22.50

CIRO-FLEX ACCESSORIES

8013	Graflex Carryall Case.....	\$19.95
8060	Double lens cover for Models B-C-D-E.....	1.50
8065	Double lens cover for Model F.....	1.50
8039	20" Replacement cord for Ciroflex Flash.....	2.00
8082	Combination lens shade and adapter ring with leather case for Models B, C, D, E (takes Series 5 filters).....	3.20
8083	Combination lens shade and adapter ring with leather case for Model F (takes Series 5 filters).....	3.20
8094	Graflex Speed Tripod.....	22.50

CAMERAS WITHOUT LENSES

Graphic and Super D Graflex Cameras are available on special order with your lens, factory fitted. See your dealer or write for details.

When any item listed herein is factory supplied on or in connection with the sale of a taxable camera (2¼ x 3¼ and smaller) or taxable lens (120 mm. or shorter) prices are modestly higher due to the Federal Excise Tax which is then applicable. See your Graflex Dealer for details.

**ALL PRICES AND MODELS SUBJECT TO CHANGE WITHOUT NOTICE
ORDER THROUGH YOUR GRAFLEX DEALER**

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