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FUJI Professional  
New Conceptional  
Camera System

NEW  
FORMAT  
6x8

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# FUJI GX680

Professional

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 **FUJIFILM I & I**  
Imaging Information

# Mastery of the medium —6 × 8 cm format



Scales up to standard  
A/B page sizes

Similar aspect ratio to  
8 × 10

Meeting the critical demands of professionals in terms of framing, cropping and trimming, 6 × 8 cm is a prime format for both studio and location work. An optimum negative area, 56 × 76 mm, gives superior quality and resolution with ample room for print cropping. An aspect ratio similar to that of 8 × 10, in a choice of portrait and landscape formats makes it perfect for commercial photography, scaling up to standard publication sizes.



6 × 7 cm



6 × 9 cm



6 × 8 cm

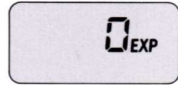
# Creative automation—the measure of a

## Motor drives and LCD

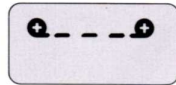
With emphasis on rapid-sequence shooting and ease-of-use, key operations including the shutter, diaphragm, mirror and film advance are motorized and centrally monitored. Plus 120/220 roll film is automatically advanced to the first frame. The interchangeable design allows professionals to build a system that suits their precise photographic needs.

Comprehensive information is displayed by an LCD panel: film count, advance, end and total shots.

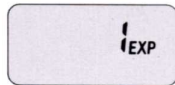
## LCD panel film indications



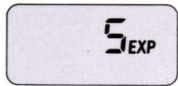
Film not loaded/not advanced



Film advancing



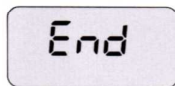
Frame 1 automatically positioned



Frame 5 positioned for exposure



Frame 9 positioned for exposure: last frame warning buzzer sounds for 120 holder; sounds after frame 18 for 220 holder



End of roll/film winding complete

## Precision electronic lens shutter

Electronically-controlled between-the-lens shutters deliver precise 1/400—8 sec. speeds, plus B setting. Shutter setting, firing and cocking are motor-driven for rapid 1 frame-per-second sequential shooting, with stopdown metering controlled by a sophisticated central microprocessor.

## Standby monitor

With emphasis on ease of use, key components including the shutter, diaphragm, mirror and film advance are monitored by user-friendly electronics. A green LED beside the viewfinder indicates ready-to-shoot, and battery OK; an orange LED: battery low, or malfunction.

## Exposure monitor

A silicon photo diode provides precise real-time OTF (off-the-film) metering for any light situation; natural, flash or a combination. A green LED lights "EXP" for correct exposure; red +/— LEDs indicate over/under exposure. The AE Finder FL provides aperture-priority light metering including flash.

## Synchro test button

Complex studio lighting set-ups can be a constant source of frustration. A simple solution exists—the synchro test button. It tests the X-contact connections without releasing the shutter; it also permits test firing of lighting to make exposure checks.

## Revolving horizontal and vertical format

Replacing a roll film holder is simple. Likewise, changing from horizontal to vertical format is equally easy. Both are rapid—press the white revolving lock button and change or rotate the holder. A handy red reminder appears in the viewfinder indicating the correct frame lines when a roll film holder is in the horizontal position.



120/220 roll film holders: dismount—rotate 45° anticlockwise; horizontal to vertical format—rotate 90° clockwise. Red reminder appears in viewfinder indicating horizontal (landscape) format.



## Synchro socket and hot shoe

With full flash synchro at every shutter speed plus M-level synchro at 1/30 sec. or slower, the light is always right. Commercial photographers will appreciate the ability to use multiple flash shots to gain depth of field, without darkening the studio or dimming modeling lights. A fast shutter speed minimizes ambient light, so simply fire flash as many times as necessary. The front hot shoe secures accessories like remote control units.

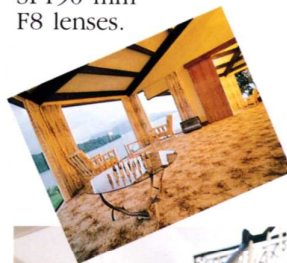
## Mode dial

Complete control comes with a turn of the large mode dial: power off, single and multiple exposures, or a continuous sequence of shots. The film wind button advances the film after multiple exposures.

# a professional

## Comprehensive lens lineup

At the heart of the GX System is an impressive lens lineup offering complete image coverage and an unrivalled range of lens-to-film distances. Modern design techniques, coupled with special optical glass and multi-coating means impeccable performance and superb quality. New additions include the wide-angle GX65 mm F5.6 and soft-focus SF190 mm F8 lenses.



65 mm



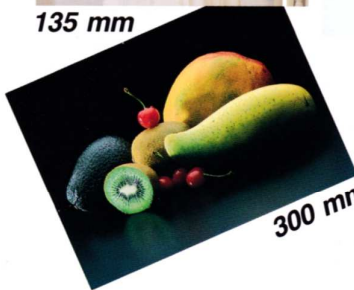
SF190 mm



135 mm



210 mm



300 mm



Shutter speed selector dial: AE mode, 1/400—8 sec., B

AE mode lock button

Power off/film advance mode selector

Dark slide slot

Dark slide storage pocket

Film wind button; following multiple exposure

Remote control shutter release socket

Mirror up/down switch

Flash synchro test button

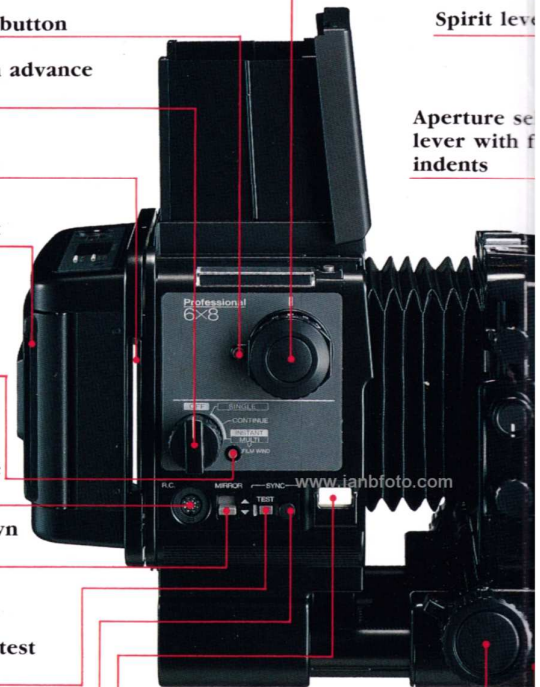
Flash synchro PC socket

Shutter release button

Battery pack

Spirit level

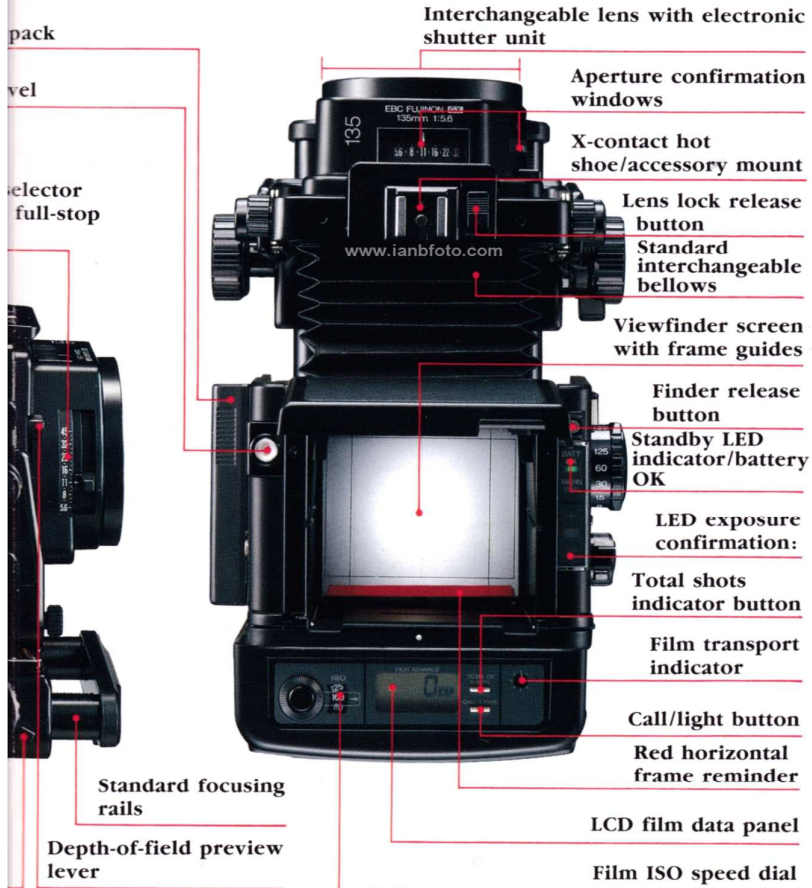
Aperture selector lever with f-stops



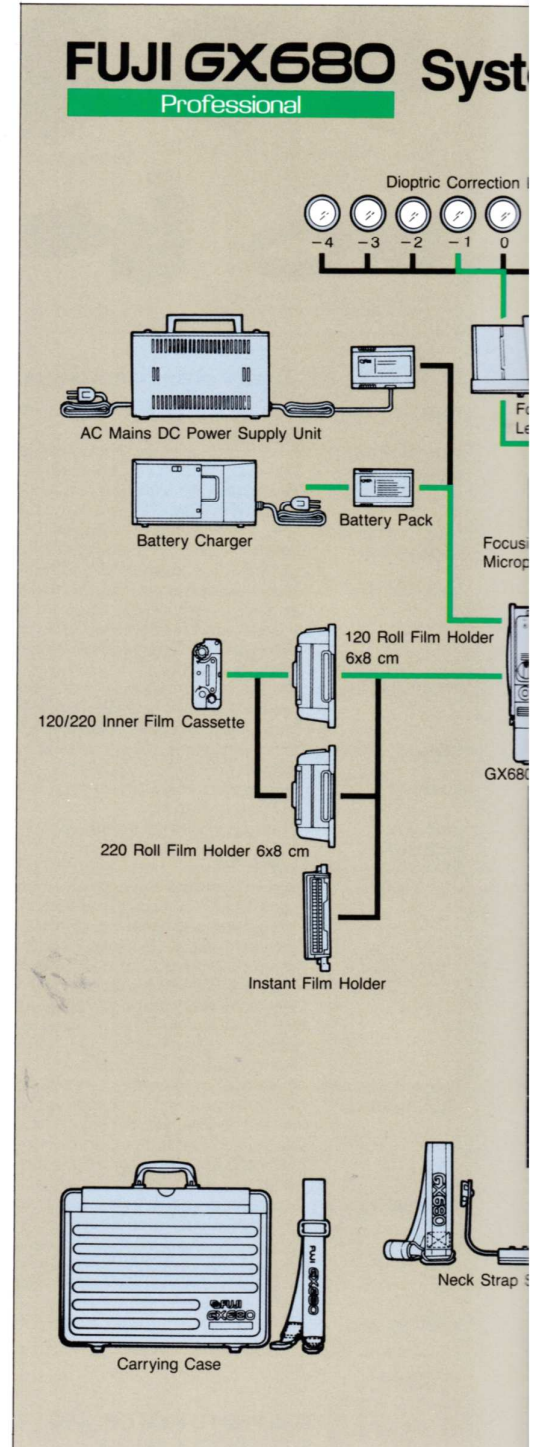
Focusing knobs

Front focus brake

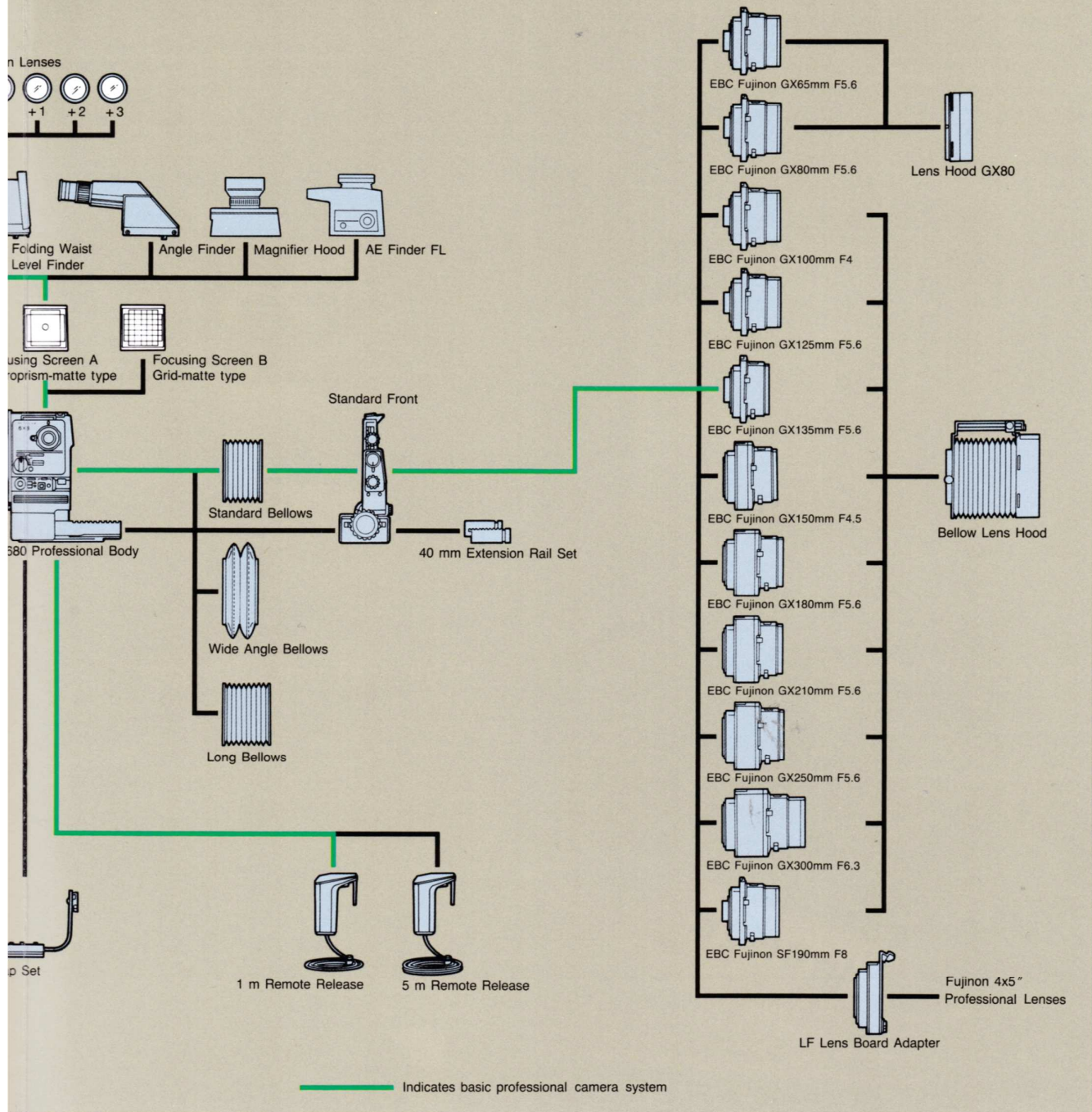
Type	Wide angle			Standard			
EBC Fujinon lens	GX65 mm F5.6	GX80 mm F5.6	GX100 mm F4	GX125 mm F5.6	GX155 mm F5.6	GX150 mm F4.5	
Optical construction (groups-elements)	9-10	8-8	8-8	5-6	6-6	4-6	
Angle of view (6 × 8 cm)	72°	61.1°	50.5°	41.4°	38.5°	34.9°	
Focal length (4 × 5" equivalent)	100 mm	123 mm	154 mm	193 mm	208 mm	231 mm	
Shutter	SEIKO #1 electronically-controlled lens						
Minimum aperture	45						
With standard rail	Minimum focus	0.35 m	0.40 m	0.48 m	0.58 m	0.65 m	0.73 m
	Maximum magnification	0.93X	0.67X	0.58X	0.45X	0.45X	0.42X
	Objective size	5.1 × 7.0 cm	8.3 × 11.3 cm	9.6 × 13 cm	12.3 × 16.7 cm	13 × 17.7 cm	13.2 × 17.8 cm
With extension rail	Minimum focus	0.35 m	0.39 m	0.45 m	0.51 m	0.56 m	0.63 m
	Maximum magnification	0.94X	1.27X	0.98X	0.74X	0.75X	0.69X
	Objective size	5.1 × 7.0 cm	4.4 × 6.0 cm	5.7 × 7.7 cm	7.6 × 10.3 cm	7.7 × 10.5 cm	8.1 × 11 cm
Filter diameter (screw-in type)	95 mm						
Dimensions (H × W × L)	107 × 101 × 116 mm	107 × 101 × 113 mm	107 × 101 × 101 mm	107 × 101 × 80 mm	107 × 101 × 79 mm	107 × 101 × 91 mm	
Weight	1,190 g	1,022 g	890 g	531 g	541 g	691 g	



Telephoto				Special use
GX180 mm F5.6	GX210 mm F5.6	GX250 mm F5.6	GX300 mm F6.3	SF190 mm F8
6-6	5-5	4-5	5-5	3-3
29.4°	25.3°	21.4°	17.9°	27.9°
277 mm	323 mm	384 mm	461 mm	292 mm
shutter				
64				
1.20 m	1.44 m	2.50 m	5.62 m	1.51 m
0.25X	0.21X	0.12X	0.11X	0.17X
24.4 × 33.1 cm	26.2 × 35.5 cm	45.5 × 61.7 cm	52.7 × 71.5 cm	32.3 × 43.8 cm
0.85m	1.02 m	1.44 m	1.96 m	0.95 m
0.45X	0.40X	0.28X	0.24X	0.38X
12.4 × 16.8 cm	13.9 × 18.9 cm	19.8 × 26.8 cm	25.4 × 31.7 cm	14.5 × 19.8 cm
82 mm				
107 × 101 × 104 mm	107 × 101 × 105 mm	107 × 101 × 111 mm	107 × 101 × 139 mm	107 × 101 × 104 mm
775 g	824 g	901 g	1,080 g	680 g



# System Chart



# Total image control —full front camera movements

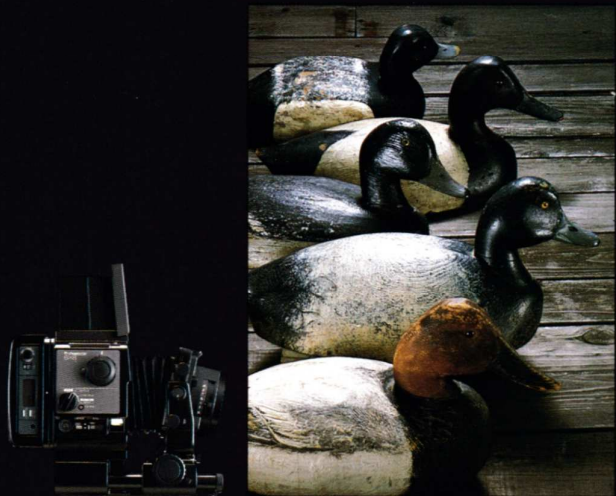
## • Rise/fall—15 mm/13 mm

Architectural photography, especially in modern high-rise cityscapes, frequently involves overcoming perspective distortion like converging verticals. Rise and fall front movements compensate for these perspective distortions. Raising the front elevates the viewpoint, and resolves strong perspective effects simply and with a minimum of effort. These movements are also widely used for distortion-free interior shots.



## • Tilt—12° forward/back

Selective depth of field is usually desirable in commercial photography and tilt movements provide a precise degree of control. Tilting the front forwards increases the top-to-bottom sharpness of the picture. Since tilt doesn't alter the shape of objects, it's perfect for closeups of small objects, food and suitable for general commercial photography.



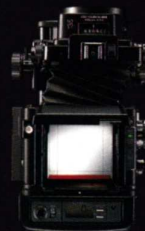
## • Swing—12° left/right

Creative fashion and commercial shots frequently call for unusual angles, but normally this means distortion. Swing movements help frame these shots without the associated distortion. They create a sharply defined zone of focus at an angle across the subject, for effective control of the image.



## • Shift—15 mm left/right

Shifting the camera front parallel to the left or right permits precise subject placement within the frame. It's also useful for avoiding potentially distracting reflections when taking shots of bright, reflective objects or through glass.



## Accessories Group



## FUJI GX680 Body Specifications

<b>Type:</b>	6 x 8 cm TTL between-the-lens electronic shutter SLR camera.
<b>Film format:</b>	56 mm x 76 mm; horizontal/vertical format.
<b>Film sizes:</b>	120 half-roll film (4 exposure), 120 roll film (9 exposure), 220 roll film (18 exposure), instant peel-apart type film.
<b>Interchangeable lens mount:</b>	EBC Fujinon mount; optional Linhof Technika adaptor board for Fujinon W180, W210, W250, SF180, A180, A240 and T300 4 x 5" format lenses.
<b>Lens shutter:</b>	Electronically-controlled between-the-lens shutter: B, 8 sec.—1/400 sec.; aperture lever with full stop indents; aperture confirmation window; depth-of-field preview lever; motor driven shutter setting, firing & cocking.
<b>Flash synchro:</b>	X-contact synchronous at all shutter speeds; M-level synchro at 1/30 sec. or slower; lens mounted hot shoe; body synchro socket; synchro test button.
<b>Shutter release:</b>	Electromagnetic type; optional 1 m/5 m remote release.
<b>Mirror:</b>	Automatic instant-return type; motor driven; mirror up/down switch.
<b>Multiple exposure:</b>	Multiple exposure setting; film wind button.
<b>Interchangeable viewfinder:</b>	SLR waist-level type, interchangeable focusing screens; central microprism matte-type screen standard; interchangeable finder: one-touch folding hood-type standard; magnification: 2.5x, fine focus interchangeable dioptic correction lens: -1 diopter standard, optional -4, -3, -2, 0, +1, +2, +3 diopter lenses; field of view: 97% of actual picture; frame coverage greater than 8 x 8 cm; red horizontal frame guide; optional AE aperture-priority finder FL; optional magnifier hood; optional angle finder.
<b>Interchangeable film holder:</b>	Rotating, landscape/portrait positions; 120/220 interchangeable film cassettes; ER-3 backup lithium battery 5-year life, film speed dial, dark slide slot, dark slide storage pocket, film reminder pocket, memo board, film running indicator synchronized with spool axis; optional instant film holder.
<b>Film advance:</b>	Automatic 120/220 first frame location by twin infrared diode photocouplers; motor driven film advance: single, continuous and multiple exposure modes; film wind button; winder speed: approx. 1 frame-per-second; automatic winding to roll end after last frame.
<b>Film speed:</b>	ISO 25—1600 settings in 1/3 EV stop increments.

<b>Film counter:</b>	LCD multi-mode display: film count, running, end, total exposures; built-in illuminator.
<b>Focus:</b>	Standard interchangeable bellows: dual focusing knobs with focus brake lever, maximum extension 65 mm; optional 40 mm extension rails; optional long bellows, wide-angle bellows.
<b>Front movements:</b>	Separate locking knobs for each movement with central position indents: twin locking knobs on front standard for rise: 15 mm, fall: 13 mm, front release knob for shift: ±15 mm of center, left-hand release lever for swing: 12° left/right, bottom twin lock knobs for tilt: 12° up/down. (Range of movements varies depending on combination of movements.)
<b>Exposure metering:</b>	OTF (off-the-film) real-time metering by silicon photo diode; meters 25 mm central area film; metering range: EV4—EV18 at ISO 100 with GX100 mm F4 lens; exposure warning LEDs: correct, over/under exposure.
<b>Exposure control:</b>	Optional AE finder: microprocessor-controlled TTL aperture-priority exposure metering; full-aperture TTL light metering by silicon photo diode of central viewfinder screen area; metering range: EV1—EV19.5 at ISO 100 with GX100 mm F4 lens; TTL flash metering activated by synchro test button; real-time TTL flash metering during exposure; LCD panel displays F number, shutter speed set in 1/3 EV stop increments; AE memory lock; exposure compensation settings: -5, -2-1/2, -2, -1-1/2, -1, -2/3, -1/2, -1/3, +1/3, +1/2, +2/3, +1, +1-1/2, +2, +2-1/2 stops.
<b>LED visual displays:</b>	Exposure confirmation; correct exposure: green "EXP", over/under exposure: red +/-; green standby: steady, not ready: blinking; battery check OK: green steady, battery low: orange blinking; malfunction: green and orange blink alternately.
<b>Audible warnings:</b>	Last frame; malfunction; over/under exposure when remote release connected; adjustable volume.
<b>Power source:</b>	Optional 7.2 volt, 350 milliamp nicad battery pack, 350 exposures at full charge, recharge time: 60 min., 15 min. auto-off, body on/off switch; optional AC mains DC power supply unit.
<b>Dimensions:</b>	187 mm(W) x 278 mm(L) x 207 mm(H).
<b>Weight:</b>	4,146 gm: GX680 body, 120 film holder, GX135 mm F5.6 lens and battery pack.
<b>Standard accessories:</b>	Folding finder hood; standard bellows; standard finder screen: central microprism matte-type.



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