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Canon



Experience shows. It shows in a professional's work. It shows in the equipment he uses. And experience is clearly evident in each and every one of the Canon F-1's precision parts.

Continuing a tradition of excellence established over the past decade by the former F-1, the new Canon F-1 embodies all the functions and qualities which helped its predecessor gain universal recognition as the camera that every true professional owned - or knew he should

Progress, tradition's counterpart, also shows in the F-1. In the form of some truly startling technological innovations, designed to help you accomplish even the most exacting photographic assignment.

Cast in an Exemplary Mold. The Canon F-1

Reliability, Versatility,

Durability, Vital requirements for a professional SLR and all essential elements of the F-1. Rugged enough to function with perfect precision for a minimum 100,000 exposures, the F-1 combines the best of both mechanical and electronic worlds. Fast shutter speeds are mechanically controlled all the way from 1/90 to 1/2000, so you go right on shooting even if the battery fails. Electronic circuitry governs the slower shutter speeds.

The tried and proven TTL analog match-needle metering system utilizing a silicon photocell (SPC) forms the photometric heart of the F-1. But amazingly, Canon has gone not one, but two steps beyond this. The F-1 is also capable of shutter-priority AE (by attaching the AE Motor Drive FN or AE Power Winder FN) and aperturepriority AE, if the AE Finder FN is used. And if that weren't enough, the F-1 offers a choice of three metering sensitivity patterns and a wide range of interchangeable focusing screens for various applications.

A decade of close partnership with top professionals has given Canon unique insight into the requirements of this most demanding class of photographer. The features you have just read about attest to this. And it is also demonstrated in the vast array of lenses and accessories that make up the F-1 system.

Professionally conceived, professionally built. The Canon F-1.

Total Reliability. What a Professional Demands Most of All.

Reliability

For a professional camera to be worthy of the description, it must be able to withstand the rigors of professional use. Professionals themselves, Canon's engineers knew that this had to be the fundamental design concept of the F-1. The result is a camera system that will

function flawlessly under some of the most inhospitable climatic conditions on earth. From the searing heat of a desert to the biting winds encountered on the world's highest peaks, the F-1 can endure the harshest temperature and humidity extremes. And it'll take a professional photographer's rough and tumble treatment.









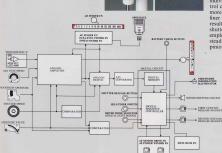
To prove its functional integrity under any conditions, the F-1 has been subjected to hours of stringent testing at temperatures between -30°C (-22°F) and +60°C (140°F). These included vibration, shock and operational tests. How is such durability achieved? In the F-1's case it begins with the very materials out of which it is fashioned. To ensure that only the highest quality materials would be selected, basic

studies such as material analysis prior to

designing, were conducted. This high standard forms the foundation on which each and every F-1 is manufac-

No less important is the manufacturing process itself. Revolutionary advances in production technology permit each part to be manufactured to micron tolerances. Besides enhancing the F-1's reliability, this also ensures perfect interchangeability with its various accessories. An excellent example of Canon's new technology is the NC (Numerical Control) machine. The most advanced equipment of its kind in the industry, it is used to perform a variety of grinding, milling and drilling functions, primarily on the die-cast body and AE Finder FN Computer-controlled, the NC machine's versatility is such that it has drastically reduced the number of machines required, yet at the same time has doubled the accuracy in drilling to ± 0.02mm compared with the former F-1. Similar precision is achieved in machining individual parts. The shutter speed control cam, for example, benefits from a more geometrically perfect curve. The finer precision of this and other parts results in greater accuracy of the high shutter speeds. Another advance is the employment of laser-beam welding instead of rivets to connect the gear to the pinion shaft of the front and rear shutter





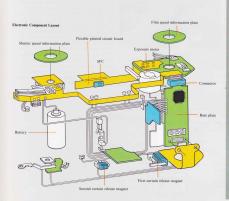


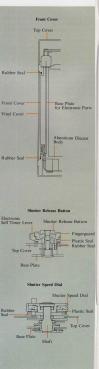
curtains. This prevents distortion, an inherent possibility when rivets are used and also allows the entire shaft to be tempered instead of just a portion, thus increasing the strength. The inner surface of the pinion and other shafts is burnished to mirror smoothness by forcing steel bearing balls through under high pneumatic pressure.

Vibration and moisture are the two main enemies of electrical components Special measures have therefore been taken to protect the F-1's sophisticated electronic circuitry from such dangers. Plastic and rubber seals prevent entry of dust and moisture in such parts as the shutter release button and shutter speed dial. The shutter curtain control magnets are silver-plated for greater dust- and moistureproofness. This measure helps guarantee the shutter's trouble-free operation for 100,000 exposures. The IC's and other major components are concentrated on one main printed circuit (PC) board. Positioned in the front part of the body where it is least susceptible to moisture penetration and formation of condensation, the PC board is coated with a special plastic film to

eliminate the tiny, invisible pores whose presence would otherwise reduce the board's resistance to moisture. After all the electrical components have been soldered to the board, the assembly is cleaned in an ultrasonic bath of special solvent, rinsed and then completely sealed with a coating of moistureproof resin. Elastic connectors used to connect the main PC board to the resistor board and other flexible circuit boards further protect the ICs against shock.

The F-1 has two ICs: one for the photometry circuit with an analog operational amplifier to perform exposure calculations based on the subject illumination, shutter speed, aperture and ASA settings and the other a digital control circuit which controls the shutter speeds. electromagnetic release, self-timer and exposure meter. These circuits also monitor the sequential operation of both the camera and its accessories. Canon calls this a "Check and Go" system because it does literally that. It checks whether each operation is functioning correctly before allowing the next to occur. The system is outlined in the chart on this



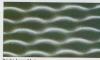


Reliability Through Ingenuity: Canon's Advances in Optics

The exceptional durability of the F-1's electronics and mechanisms is complemented by a host of innovations in the optical field.

Representative of these is the AF. Finder FN. Here, Canon has not only refused to cut corners but has even taken a more difficult path to achieve what it felt the professional desired. The AE Finder FN has a galvanometer built in which displays the shutter speed when the camera is in aperture-priority AE mode. Technically, the easy way would have been to place the display in the upper part of the viewfinder, Research. however, showed that the optimum, less distracting position is below the field of view. To achieve this and also provide a direct aperture reading from the lens (New FD lenses), special high-precision processing techniques for the miniature mirrors and prisms incorporated were required. Pinpoint accuracy was crucial too in the production process to ensure a precise optical axis of the light path.

Shutter speed information scale



Bright Laser Matte If you've already looked through the F-1's viewfinder you'll have noticed how clear and bright the image is. This is due largely to Canon's laser matte technology where laser beams are used to form the focusing screen molds. This results in less light transmission loss than with the conventional sand-blasting (ground glass) method. The different surface textures of the ground glass, laser matte and bright laser matte screens are shown in the 2,000x photos on this page. The bright laser matte has over two million tiny, regular-shaped bumps all over





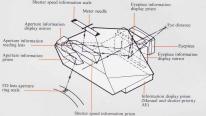
its surface. These guide the light to the

condenser lens with far greater accuracy than the ground glass screen. Consequently, the image provided by the bright laser matter is clearer and brighter, which makes focusing easier. Also contributing to the finder's brightness is the New Split rangefinder which is made up of crossed prisms forming a

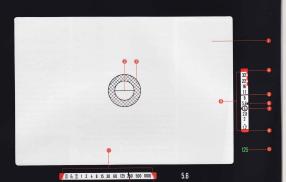


darken even when stopped down - a great advantage when using small-aperture lenses.

To ensure their maximum optical quality and performance, the focusing screens must be manufactured under conditions which are as near to totally dust-free as possible. For this, they must pass through three "clean rooms". There, the air's dust content is a fraction of that in a normal room, or outdoors. The Micro Beam Splitter is coated under vacuum and cemented in the first two rooms and then passed to the third where the focusing screen is assembled.



The F-1's Bright, Functional Viewfinder



You can tell at a glance which mode you are in by the position of the information display. On manual and shutter-priority AE it is on the right. With the AE Finder FN installed and set for aperturepriority AE, the display appears below

- 1 Laser Matte Screen New Split Rangefinder
- Microprism Rangefinder
- Overexposure Warning Mark
 Meter Needle
 Battery Check/Stopped-down Meter-
- Aperture Needle
- Underexposure Warning Mark Aperture Scale
- Shutter Speed Display
 Shutter Speed Scale
- Underexposure Warning Mark
 Meter Needle

- ® Direct Aperture Readout



Meter Mode Selector

The Meter Mode Selector located below the ASA film speed scale is another handy feature designed to keep you always in the picture, exposure-wise. Set at NORMAL, the meter only

functions while the shutter button is depressed, as a power-saving measure. At HOLD, on the other hand, the meter is activated for a full 16 seconds from the halfway – even if you remove your fin-ger. The same thing happens on LIGHT, but, in addition, the viewfinder is illuminated as an aid when shooting in lowlight conditions. Both modes are canpressing the battery check button.

Illumination with AE Finder FN is only possible when the shutter dial is off "A"

Where creativity begins...

Manual Exposure Control



The F-1 is primarily designed for manual operation. But why, in an increasingly automated world, rely on a mode that doesn't do everything for you, automatically?

The answer lies in the question - in the key word "rely." You rely on your own creative talent and ability as a professional to achieve the exact effect that you desire. The F-1 backs you up to the full in this by putting you in total manual command of all functions. At the same time, however, it allows you complete freedom to build on this foundation and expand the system's capabilities to suit your own particular needs.

Manual photography with the F-1 means full-aperture metering or stoppeddown metering. And thanks to the analog matchneedle system, you know the situation at a glance when you wish

to over- or under-expose your subject in unusual lighting situations or for creative effect. Manual operation is simplicity itself. Gently depress the shutter release button and the meter needle will instantly leap to the correct f/stop, taking into account the shutter speed, film speed and amount of light. Rotate the aperture ring so that the aperture needle matches the meter needle for the correct exposure. Alternatively, you can set the aperture first and adjust the shutter speed until the meter needle matches the aperture needle.



Shutter-Priority AE



True to its pioneering lineage, the F-1 provides an option which no other professional 35mm system SLR offers: Shutterpriority AE.

Shutter-priority AE is yours, in fact, the instant you connect either the AE Motor Drive FN or AE Power Winder FN. This gives you the mutually complementary advantages of rapid-fire shooting and shutter-priority AE, the optimum mode for action photography, since it enables you to select a faster with the priority and the priori

And at 5 frames per second (AE Motor Drive FN), no action is too rapid, whether it be a dramatic news event which is unfolding or an action-packed sports scene. Instead of including all the hardware necessary for shutter-priority AE mode in the camera body alone, Canon came up with the idea of building the functions into both the camera and the power drive. Thus, the camera incorpo-



rates an IC with a shutter-priority AE control circuit along with a mechanism to sense the position of the aperture signal lever. The drive for this lever, however, is not in the camera. It is bull into the AE Motor Drive FN and AE Power Winder FN. This design, besides being more compact, also requires fewer parts, which thus enhances reliability.

For shutter-priority AE, select the desired speed and set the lens sperture ring to "A". The aperture needle will disappear from the viewfinder as it is no longer needed. The meter needle will remain, however, to indicate the aperture and the pear of the pear of the pear of the shutter speed will also be displayed, for your reference. Shutter-priority AE is possible with any of the five interchangeable viewfinders installed.

For total depth-of-field control...

Aperture-Priority AE



You've just read how easily the F-I converts from manual to shutter-priority AE. Just as easily, Canon's new SLR prodigy can be changed to aperture-priority AE.

All that is required in this case is to attach the AE Finder FN. Set the shutter dial to "A". Look through the viewfinder and you'll notice that the information display has shifted from the right side to directly below the field of view. The display also changes from aperture information to a shutter speed display. Clearly differentiating aperture-priority AE from manual and shutter-priority AE in this way belos avoid confusion when switching rapidly from one mode to another.

The AE Finder FN also has a built-in window which affords a direct view of the aperture setting on the lens. It is situated immediately adjacent to the shutter speed scale, so your eye doesn't need to rove around looking for the exposure information.



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operation camera - it also converts

As individual as the print of the finger that presses the shutter button, no two photographers' requirements are exactly alike. Which is why Canon decided to give the F-1 owner the choice of augmenting the camera's manual capability with either one or both AE

Connect the AE Motor Drive FN or AE Power Winder FN and you have shutter-priority AE. Installing the AE Finder FN gives you aperture-priority AE as well. So, with both accessories attached, you have a choice of two AE

The F-1 isn't merely a superb manual- modes plus manual. And every consideration has been paid to make changing to shutter-priority AE or aperture-priority over from one mode to another as easy and fuss-free as possible. You never fail to know exactly which mode you are on either - the information display shifts

position as a reminder. The F-1 gives you flexibility, pure and simple. Flexibility to build a system that meets your own unique require-

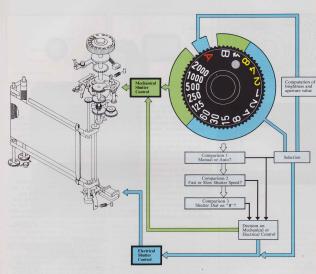




Stopped-down AE

Stopped-down AE is another of the advantages of the AE Finder FN. Photomacrography and other forms of closeup work require the use of various accessories such as bellows and extension tubes between the lens and body. The majority of such accessories as well as non-FD lenses do not have a aperture signal pin. This, plus the fact that precise depth-of-field control is required, means that the lens must be stopped down. Automatic exposure normally would be impossible under such conditions, but it poses no problem for the F-1 and AE Finder FN. Just set the aperture of your choice and, confirming that the shutter dial is on "A", unlock the stop-down slide so it is fully extended. The camera will automatically select the shutter speed necessary for correct exposure.

Fail-safe Electromechanical Hybrid Shutter



"Fail-safe" because the F-1 won't let you down - even if the battery does. It guarantees this with a full range of mechanical high speeds.

The F-1 has an electromechanical hybrid shutter. The fast speeds from 1/2000-1/125, "F" (1/90) and B are mechanically controlled, whereas electronic circuitry controls the slower speeds from 1/60 to 8 secs. With the AE Finder FN set for aperture-priority AE, all shutter speeds go electronic (fastest speed in this case is 1/1000 sec.).

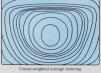
The advantages of this system are manifold. The F-1 owner has several

mechanical shutter speeds to fall back on if the battery runs out or loses power at very low temperatures. Simply remove the battery for mechanical operation. Electronics, however, guarantee greater accuracy in the slow shutter speed range besides enabling longer speeds. Electronic circuitry is therefore utilized for the slower speeds, bringing about a significant reduction in the overall weight and a more compact design.

Another advance is the titanium-alloy focal-plane shutter. It travels at a lightning fast 7.5 milliseconds, giving the F-1 a fast X-sync speed of 1/90.



Three Metering Systems to Suit Any Situation









In the past, a major consideration in buying a 35mm SLR was the light sensitivity distribution of the exposure meter employed. Apart from one's own personal preference, other factors such as the lenses to be used and the photographic field had to be considered. The F-1 changes all that. It offers you a choice of no less than three different metering sensitivity patterns: centerweighted average metering, selective-area metering and spot metering.

Changing the metering sensitivity pattern is a simple matter of replacing the focusing screen. Here again, Canon, shunning half-measures, has come up trumps with a complete range of 13 different focusing screens, in three groups, giving a total of 32 focusing screen/metering system combinations.

Center-weighted average metering

Ideal for AE photography, but equally effective for manual mode. The easiest pattern to use for normal situations, the degree of center-weighting in the horizontal direction is markedly increased to minimize difference in exposure between vertical and horizontal positions. Consequently, the pattern remains virtually unchanged no matter what lens you use.

Selective-area metering

This pattern is most effective where precise exposure of the subject or a certain area of the frame is desired, e.g., strongly backlit subjects or strong contrast between light and shadow, such as scenery with a bright sky. Effective, also, for AE photography and stopped-down AE in close-up applications. Metering sensitivity is 12%.

Spot metering

Acting as a built-in 3% spotmeter, this metering pattern proves its worth particularly where there is extreme contrast between subject and background. A singer in the spotlight on stage is a typical example, but other situations where center spot metering is advantageous include close-up photography and when metering against the light.

New Micro Beam Splitter

The focusing screen is a unique Canon development, an exquisite microcosm of applied optics and precision engineering which demonstrates just how far Canon has advanced the state of the art.

Condenser lens

Micro beam splitter Focusing screen

Laser-matte surface

Each screen incorporates a specially designed photometry element comprising a wedge-shaped horizontal grating. Light entering the lens is reflected by the mirror up through the focusing screen's several sandwiched layers to the pentaprism and eyepiece. In the process, some of the light is deflected by the 20µ period tocell (SPC) metering element situated behind the focusing screen. For maximum metering accuracy, the SPC is as

tance of the micro beam splitter, it becomes possible to change the metering sensitivity pattern.

The former F-I employed a split condenser which, because it directed more light to the metering element, tended to cause a perceptible darkening of the metering area. Due to its greater sensitivity. the SPC requires less light for metering. The new screen's fine micro beam splitter accordingly transmits a smaller amount of light to the element

and solves the problem of darkening at the same time. Moreover, the screen is thinner thus permitting a

Expanded Metering Range

Enlarged Section of Micro Beam Splitter

Transmitted light

Transparent glue

Thanks to the SPC element's superior linearity and response, the meter coupling range has been extended to include shutter speeds up to 8 full seconds. This gives a coupling range of EV-1 to EV20 (ASA 100; 50mm f/1.4). The film speed range is also wider: ASA 6 to ASA 6400.

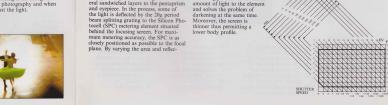
Grating

Beam splitter coating









The F-1's Finer Points



- 1 AE Set Pin (for AE Finder
- FN)
- Self-timer/Lock Lever
 Action Grip (Battery Chamber Cover)
- @ Film Rewind Knob
- PC Socket ® Battery Check Button
- Film Rewind Lever ® Film Plane Indicator ® Interchangeable Focusing Screen @ Illumination Window (for Meter Information)

Action Grip Release

Button

® Stop-Down Slide

- @ Exposure
 - Compensation Lock Release Button
 - Exposure
 - Compensation Scale @ Film Speed Scale
 - ® Film Advance Lever ⊗ Frame Counter
- ® Film Speed Lock Release Button
- Signature Release Button
 (with Cable Release)
- Socket)
- S Film Rewind Crank
- @ Shutter Dial
- - ⊗ Sync Contact⊗ Shutter Speed Display Contacts
 - Automatic Contacts for Dedicated Speedlites
 - Safety Stopper
 Automatic Flash Contact ⊗ Finder Release Button
- @ Accessory Shoe
- ⊗ Index
- @ Flash Sync Contact @ Eyepiece Shutter Lever
- @ Meter Mode Selector @ Evepiece Ring @ Titanium Focal-Plane Shutter Curtains
- @ Automatic Contact for Data Back FN

100082

- Ø Film Transport Sprocket

 Ø Multi-slot Take-Up Spool
- @ Camera Back @ Memo Holder Winder and Motor

@ Drive Terminal

- Rewind Coupler Cover
 AE Coupler Cover Film Rewind Pin (for @ Winder and Motor
- @ Drive) Winding Coupler Cover

 Tripod Socket
- Positioning Hole (for Winder and Motor Drive)

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There's no risk of accidentally opening the camera back and exposing the film. Simultaneously depress the stopper and raise the rewind knob to open.



Battery Check Button If the meter needle moves above the viewfinder's battery check index when this button is pressed then power is sufficient. It can also be used to cancel the selftimer, exposure meter timer and viewfinder illumination, as well as to ing long exposures.



Accessory Shoe Located on top of the pentaprism viewfinders for direct mounting of all Speedlites. Special contacts enable au-tomatic setting of the 1/90 sec. flash sync. speed and flash aperture when on shutter-priority AE mode.



Shutter Release Button/Self-timer Depress the button halfway to obtain a meter reading, all the way to release the shutter. For self-timer operation, turn the outer ring to "S" and depress the shutter button. A beeping sound will occur for 10 secs before the shutter releases itself. Set the ring to "A" for normal shutter release and "L" to lock



Film Rewind/Multiple Exposure Lever Moved from the bottom of the camera for easier access when using a tripod for easier access when using a tripod or other accessories. For film rewind, turn the lever clockwise and depress. Do the same before cocking the shut-ter to take multiple exposures. Rapid sequence multiple exposures are also possible using either of the power



An example of Canon human engi-neering at its best. The battery com-partment's specially contoured cover provides a firm action grip for steadier shooting. Removed by pressing the release button underneath.



Conveniently placed for easy left-handed operation, this lets you check depth of field and enables stoppeddown metering with FL lenses or non-fully coupled close-up accessories.

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Canon Breech-lock Mount Lens mounting is an easy, fast op-tion. An exclusive mounting syste-which ensures full interchangeabil with all Canon lenses and access



Wide Film Speed Range The wide ASA 6 to ASA 6400 range means you can use virtually any film available. The ASA is displayed in the window for easy reference



Meter Mode Selector An invaluable feature which belos vo in more ways than one. At HOLD, the meter operates for 16 secs., freeing both hands to adjust the camera. The same happens on LIGHT, but in addition the viewfinder display is illumi-nated. At NORMAL, the meter func-tions only while the shutter is de-



Exposure Compensation
Up to ± 2 EV exposure compensation is possible when you need to compensate for strong backlighting or for spe-cial effects. Calibrated in 1/3 EV steps, the dial is released by pressing the lock



For aperture-priority AE, align the "A" mark with the index. All shutter speeds (plus " and B) are white except for full 2, 4 and 8 sec. speeds which are colored yellow.



Quick-action Film Advance Lever The film can be advanced with a single rapid stroke or by repeated small movements. Contoured to snugly fit your thumb, with a 139° throw and 30°



Winder and Motor Drive Coupler Remove the screw cap to connect ei-ther the AE Power Winder FN or AE Motor Drive FN.



Eyepiece Shutter
Flick the lever up and the eyepiece
shutter will close (Eye-Level Finder
FN and AE Finder FN) to prevent
entry of extraneous light through the
cypiece. This is especially helpful
when taking long exposures or with







Interchangeable Viewfinders

The F-I System includes five fully interchangaels viewfinders, each offering a unique way to view your subject. Their brighter, clearer field of view facilitates focusing and composition with reduced incidence of ghost. Metering is compared y unimpaired regardless of the compared your property of the compared your property of the compared you have been supported by the your beautiful property of the compared you have been supported by the your beautiful property of the your beautiful property of



	Exterior	Optical System	Shutter-Priority AE	Aperture-Priority AE
Eye-Level Finder FN Standard with the F-1, this finder has an X-gync hot show with special contacts for AE flash mode with Canon declared Specifies and a convenient eyepiece shutter to keep out extraneous light.	canon			
AE Finder FN For greater control over depth of field. Slide the finder into position and you have aperture-priority AE or stopped-down AE for close-up work. The exposure read-out shifts what the property of the proposed property of the finder into the f	canon		(a)	(i)
Speed Finder FN If your photography takes you where the action is, you can strain the property of the propert	eanon		© 0.67*	
Waist-Level Finder FN-6X A built-in OX magnifying glass enables razor-sharp focusing in closeup photography, copy work and photomicrography, and the control of the control	Caron			1.55**
Waist-Level Finder FN Useful in situations which call for using the camera at a low Useful in situations which call for using the camera at a low work, copying, Pottomocorgraphy and astrong, an order- All exposure data are displayed unreversed and an adjust- ation of the control of the cont	caron		1.2*	*deroots, viewfinder magnification ing Fys-l-evel Finder IV as the standard (IX). ** verwinder magnification at 1 diop

Interchangeable Focusing Screens



The F-1 sets a new standard of professionalism with a complete system of 13 interchangeable focusing screens. Besides helping you focus accurately, they also provide a selection of three metering sensitivity patterns to suit the photographic situation and lens being used

The entire series of screens is available for enter-weighted average metering and selective-area metering. Six screens – those most applicable for the specialized metering method – are available for spot metering. Thirty-two interchangeable focusing screens in all, for any photographic application.

Superior not only in number but also performance, the F-I focusing screens hold many surprises. Heading the list are two Bright Laser Matte screens which are nearly 20% brighter than their laser-matte counterparts. With the

FD 300 mm f/5.6 lens they are approximately 1.8 times as bright. Other new-comers are the Cross Split which facilitates both horizontal- and vertical-for-control of the standard New Split Micros and the standard New Split Micros Split New S

Exposure compensation is completely unnecessary with any of the screens and image clarity has been improved by reducing the Fresnel lens pitch to 0.03mm. The condenser lens is multicoated for greater brightness. The focusing screens seat with perfect accuracy when replaced, an easy task requiring no special tool.

Type of focusin	ng screen	Center- weighted	Selective	Spot	Rangefinder	Diameter of focusing aid (mm)	Use and features
A. Standard Microprism	•		0		Microprism Prism angle 8* Prism base size 0.12×0.12mm	3.5	Matte/Fresnel field with central microprism rangefinder. For general photography with all lenses.
B. New Split	0	ē	0	е	Split image Angles 5°40', 10'50' Pitch 0.012 × 2 = 0.024mm	4	Suitable for general photography with all lenses. Split-image darkening does not occur even with slow lenses.
C. Overall Laser Matte					Overall matte field	-	Matte/Fresnel field with clear matte enables viewing and focusing without distraction in the center. Ideal for macro and telephoto photography.
D. Laser Matte with Grid					Overall matte field Interval between graduation lines is 7mm Line width is 0.03mm		Reference lines aid in situations where lateral and vertical composition accuracy is important, e.g. copy work and architectural photography. Especially suited for the TS 35mm (Tilt and Shift) lens.
E. New Split/ Microprism	0	8	0	0	New split/microprism Angles 5'40', 10'50' Micro 8'	5	Standard in the F-1. Multipurpose type for all lenses, enables focusing with the split-image, microprism, or matte field depending on the subject or your own preference.
F. Microprism/Fast Lenses	•	0	0		Microprism Prism angle 14* Prism base size 0.12×0.12mm	3.5	An excellent choice when using fast lenses (f/1.2 to f/2.8). Affords easy, extremely accurate focusing.
G. Microprism/Slow Lenses	•	0	0		Microprism Prism angle 4° Prism base size 0.12×0.12mm	3.5	Similar to F, but for slower maximum apertures of f/3.5 to f/5.6. Does not incur prism darkening.
H. Laser Matte with Scale					Overall matte field Lines graduated every lmm (horizontal 32mm, vertical 20mm) Width of graduation line is 0.02mm	-	For high-magnification applications such as close-up photography and photomacrography. With fine matte center and Imm gradations on vertical/horizontal lines.
I. Laser Matte with Double Cross-Hair Reticle	•	•	⊕	•	Center transparent section Interval between crosses is 0.04 3 × 3mm Line width is 0.02mm	5	Well suited for applications requiring high magnifi- cations such as photomicrography and astrophoto- graphy. To focus, move your eye from left to right. If the cross-hairs stay in the same position on the subject, the subject is in focus.
J. Bright Laser Matte/Short Lenses					Overall matte field		Together with the Bright Laser Matte K, the bright- est screens of the system. Especially effective with 50mm to 200mm lenses and dark subjects or when using small working apertures.
K. Bright Laser Matte/Long Lenses					Overall matte field		Provides the same unobstructed viewing as the Bright Luser Matte J. Suitable for 300mm telephoto lenses or longer. Also effective for photomacrography.
L. Cross Split	0	4	•		Cross split Split angle 8*	4	Divides the subject both horizontally and vertically. Subject is in focus when the four quarters merge to become one unbroken image. Applicable to all lenses.
M. A/B Size Laser Matte					Overall matte field The 2×2mm crosses are located in the four corners of the 30.55×21.6mm area.	-	The screen for those in the publishing and advertis- ing fields. Engraved crosses in corners facilitate cropping.

Two Ways to Keep Up With the Action



The decisive moment is that exact split film rewind is another feature, taking just second when you instinctively know you should release the shutter. The F-1 makes sure that you capture it frame after dramatic frame with the AE Motor Drive FN or AE Power Winder FN. And for action photography, in the right mode: shutter-priority AE. Both

units give the F-1 this capability when

connected to the camera.

AE Motor Drive FN The AE Motor Drive FN advances the film at 5 frames per second when the mode selector is set on H (high) and 3.5 fps on L (low). Single-frame shooting is possible on S (single). Powered

8 seconds for a 36-exposure roll. At the film end it stops automatically and a red LED lights. And you aren't limited to one power source. The Battery Pack FN takes 12 penlight batteries, sufficient to drive 50 36-exposure films. A 3-step LED indicator lets you know the battery condition. For greater economy and compactness, there's the Ni-Cd Pack FN which uses built-in rechargeable Ni-Cd batteries to power 30 rolls of film. With the High Power Ni-Cd Pack FN, the temperature can be a bone-chilling -20°C, yet it will continue to function perfectly. It can also be used to power the camera itself using the Battery Cord

C-FN. The unit will drive up to 50 rolls

of film between recharges at normal tem-



O Ni-Cd Pack FN Battery Pack FN
 High Power Ni-Cd Pack FN



Shutter Release Button



The High Power Ni-Cd Pack FN can also serve as a power source for the camera, using the Battery Cord

AE Power Winder FN

Providing the same convenience of operation, albeit at a slower speed (max 2 fps), is the AE Power Winder FN. Powered by four penlight batteries, it can also be set for single-frame advance.

Ruggedly built, like the camera to which they so quickly and easily attach, the AE Motor Drive FN and AE Power Winder FN are compact and lightweight as well. Two shutter buttons, one on top of the grip and another on the side, make vertical and horizontal-format shooting equally easy.

The two power drives share some other outstanding features. Their subtractive frame counter can be set to the desired number of exposures. When it reaches "0" or the batteries become weak during shutter-priority AE shooting, automatic film advance stops and the red LED warning lamp comes on. As an additional safeguard the shutter locks (except when using the camera's mechanical release). The shutter also locks when the camera's own battery weakens and during powered film rewind (AE Motor Drive FN).



Remote control operation is another capability of both power drives, using

the Wireless Controller LC-1 or other remote control devices.

Specifications

AE Motor Drive FM

Compatible with: Canon F-1. Construction: Motor drive section with a film driving motor and separate battery section.

Shutter-priority AE: Possible by attaching motor Shutter Release: Three shutter buttons provided Shalter Ketease: I flee, shalter outons provided Power Source: Battery Plack FN, Ni-Cd Plack FN or High Power Ni-Cd Plack FN.
Shooting Speeds Vary with power source. Up to 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd 5 fpw with Battery Plack FN or High Power Ni-Cd Ni-

Shooting Capacity: Varies with power source and temperature. Approx. 50 rolls at normal temperature with new carbon-zinc batteries or a fully-charged High Power Ni-Cd Pack Fix pappox. 30 rolls with a fully-charged Ni-Cd Pack Fix (using 36-exposure film with mode selector at "H"). film with mode selector at "H"). Frame Counter: Subtractive type. (Motor drive stops automatically when counter reaches "0"). Frame Counter Setting: By setting wheel. Power Film Rewinding: By power rewind lever. Battery Cheek. Possible with Battery Pack FN. Remote Control or Interval Photography:

Various external control devices available Dimensions and Weight: W/Battery Pack FN: 157 (W) × 127(H) × 82(D) mm: 845 g including 12 size-AA batteries (6-1/8" × 5" × 3-1/4", 29-13/16 ozs.)

W/Ni-Cd Pack FN: 157(W) × 118(H) × 75(D) mm: 608 g (6-1/8" × 4-5/8" × 3", 17-15/16 ozs.) W/High Power Ni-Cd Pack FN:

157(W) × 127(H) × 82(D) mm: 865 g (6-1/8" × 5" × 3-3/8", 30-1/2 ozs.) AE Power Winder FN

AE. Power Winder: Anno F-1.
Type: Electromotive film winding device power winder and setting lens to "A" mark.
Shutter-priority AE: Possible by attaching Power Winder AE and setting lens to "A" mark.
Shutter Release: Three shutter buttons provided (incl. camera's) each with release lock.
Film Driving Mode: Set with mode selector. "C" for continuous shooting at up to 2 fps. "S" for single-Shutter Speed Range: 8 to 1/2000 sec Power Source: Four size-AA 1.5V carbon-zinc or alkaline manganese batteries. Ni-Cd batteries also

Shooting Capacity: Approx. 20 rolls of 36-exposure film with new carbon-zinc batteries at normal tem-Frame Counter: Subtractive type. Power winder stops automatically when counter reaches "0 Frame Counter Setting: By setting wheel. Warning Lamp: Lights up when frame counter reaches "0" or when power winder's battery voltage

Remote Control or Interval Photography: Various external control devices available. Dimensions: 157(W) × 101(H) × 77(D) mm; 6-3/16"(W) × 4"(H) × 3-1/16"(D) Weight: 400 g (14.2 ozs.), including batteries.

Subject to change without notice.

A Professional Flash System



When it comes to flash photography, the F-1 leaves nothing to chance. Gone is the need for complicated guide number calculations or to compensate when using bounce flash or close-up accessories. There's no need even to remove your eye from the viewfinder to check the flash

Responsible for this is the New Canon Auto Tuning System (New CATS). It makes taking flash pictures with Canon Speedlites a simple, errorfree proposition and also allows some special techniques such as slow speed synchronized photo-

And being the F-1, it should come as no surprise that you have a full selection of eight Speedlites plus a special flash unit - the Macrolite ML-1 - for

close-up work. Models 011A through 199A fit directly into the hot shoe on the viewfinder. The grip-type 577G and 533G are mounted on the camera with a quick-release

bracket, the hot shoe being used to accommodate their independent sensor units. Multiple flash units can be connected using the hot shoe and the PC sync terminal on the camera. Automation takes over the moment the Speedlite's pilot lamp lights up. The Speedlite transmits a charge-completion signal to the camera which simultaneously sets the shutter speed to 1/90 sec. In the viewfinder, the meter needle moves to the flash aperture value you have selected on the

back of the Speedlite. Turn the lens aperture ring until the aperture needle matches the meter needle. Connect the AE Motor Drive FN or AE Power Winder FN and flash photography is even easier. With the lens aperture ring on "A", the aperture is automatically set to the flash aperture.

With their greater power, the 577G and 533G are ideal for situations where it is difficult to approach your subject, as at press conferences or fashion shows. Tele-and wide adapters are attachable to provide full flash coverage with long focal length lenses of 100mm or more, or as wide as 20mm. Lightweight, rugged and easy to handle, their heads can be









tilted upwards to 120° with intermediate click stops at 60°, 75° and 90° for bounce flash. The heads can also be turned horizontally, left or right. Both units have three color-coded autoshooting distance



Speedlite	011A	277T	188A	199A	533G	577G
Guide Number at ASA 100, m (ASA 25, ft)	14	25 (41)	(w/o adapter) 25 (41)	(w/o adapter) 30 (50)	(w/o adapter) 36 (60)	(w/o adapter) 48 (80)
Attachment	Clip-on Type	Clip-on Type	Clip-on Type	Clip-on Type	Grip Type	Grip Type
Flash Coverage Angle	35mm lens	28mm lens with Wide Adapter	28mm lens with Wide Adapter	24mm lens' with Wide Adapter	20mm lens with Wide Adapter	20mm lens with Wide Adapter
Flash Duration	1/1000-1/100 000 s	1/700-1/50 000 s	1/700-1/50 000 s	1/500-1/50 000 s	1/800-1/50 000 s	1/400-1/50 000 s
Power Source	2 size-AA alka- line-manganese or Ni-Cd batteries	4 size-AA alka- line-manganese or Ni-Cd batteries	4 size-AA alka- line-manganese or Ni-Cd batteries	4 size-AA alka- line-manganese or Ni-Cd batteries	6 size-AA alka- line-manganese or Ni-Cd batteries; 6 size-C alkaline- manganese batteries or Ni-Cd Pack TP	6 size-C alkaline- manganese batteries or Ni-Cd Pack TP in the Transistor Pack G
Manual Flash	-	-	Possible	Possible	-	Possible
Bounce Flash		-	-	Up to 90° upward	Up to 120° upward, 120° left and right	
Slow Synchr. Flash	-1101011111	-	- 11 10 10 10	Possible	Possible	Possible
Body Dimension and Weight	19(W) × 64.5(D) × 112.5(H)mm (3/4" × 2-9/16" × 4-7/16") 155g (5-7/16 oz)	66(W) × 64.5(D) × 97(H)mm (2-5/8" × 2-9/16" × 3-13/16") 180g (6-3/8 oz)	68(W) × 52(D) × 103(H)mm (2-11/16" × 2-1/16" × 4-1/16") 290g (10-1/4 oz)	79(W) × 83(D) × 116(H)mm (3-1/8" × 3-1/4" × 4-9/16") 490g (1 lb 1-5/16 oz)	93(W) × 104(D) × 248(H)mm (3-11/16" × 4-1/8" × 9-3/4") 655g (23-1/8 oz)	99(W) × 107(D) × 245(H)mm (2-7/8" × 4-1/4" × 9-5/8") 600g (21-3/16 oz)

Discovering an Elusive World





Film Chamber and Data Back

The F-1's back cover can be easily removed to install two extremely useful Canon accessories: the Film Chamber FN-100 and Data Back FN

Used in conjunction with the AE Motor Drive FN, the Film Chamber FN-100 at a rapid 5 frames per second. And it is so compact and light, it won't slow you down in the slightest, even when the pace becomes hectic, as with sports photography. Alternately, you can use it on

a tripod for copying documents or recording experiments in a laboratory. Handling ease is further improved by a special grip with built-in shutter button.

The Data Back FN has three dials for letters, Roman numerals and numbers. It can be used either for dating or classifihas capacity to take up to 100 exposures cation purposes. Cord connection to the camera is unnecessary, making it possible to use electronic flash. Data are recorded automatically upon shutter release, or manually,





8.5 mm (5/16") 11.85mm (7/16") 2.3mm (1/16")

Close-up System

No longer the exclusive preserve of the scientist, photomacrography is now one of the fastest growing fields of photography. Photographers of all persuasions are taking the opportunity to explore a new world - both living and inanimate around them.

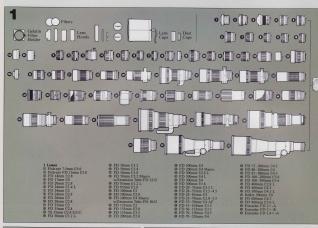
To aid you in this task, the F-1 system includes over 30 close-up accessories. Such products as extension tubes, macro and close-up lenses let you come in close enough to yield life-size or larger-than-life pictures. And since this often involves shooting from a low or awkward position, the Waist-Level Finders FN and FN-6X come in handy here as they let you focus at a right angle to the subject. The heart of the system is the Auto

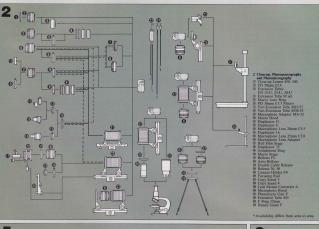
Bellows. The main feature of this unit is its automatic diaphragm coupling capability, using the Double Cable Release. Depressing the release halfway stops the lens down to the preset aperture for metering and checking depth of field. Where only relatively low magnifications up to life-size are required, close-up lenses.

which screw like filters onto the front of the lens, are the simplest answer in many cases. Canon's Close-up Lenses 450 and 240 are available in various diameters for use with any lens in the 35mm to 135mm range. To increase the magnification, there are several kinds of extension tube sets including the Extension Tube M set. Macro lenses, such as the 50mm which gives a 0.5X magnification alone or 1X with the Extension Tube FD 25-U, are ideal for both close-up work and copying. The 200mm f/4 Macro focuses down to 58mm to provide life-size magnification without the need of an extension tube. Five duplicators are available for reproducing a variety of formats. They include the Duplicator 35, which attaches to the front end of the Auto Bellows and the Duplicators 16 and 8 which enable single frames from 16mm and 8mm movie film to be enlarged and reproduced.

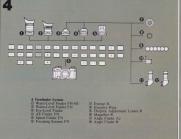


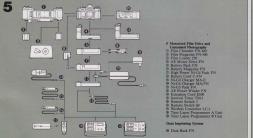
The F-1 System













The furthest frontier of Canon's optical technology...

L Lens Series

With any camera system, the most important factor in assuring a perfect image is the lens. For the F-1, Canon offers a lens system which is one of the

most extensive in the world; the FD. Encompassing everything from fisheyes to super-telephotos, FD lenses are compact and light. And their exclusive breech-lock mount affords quick and easy mounting and dismounting with minimal wear to camera and lens mounts, even with long use. Their ingenious system of signal pins and levers makes possible both shutter-priority AE and aperture-priority AE with the F-l and guarantees their complete interchangeability with any other Canon SLR. It's features like these plus, of course, their outstanding color balance and resolution that make FD lenses the

A professional's requirements, howver, are frequently of a more exacting nd specialized nature than those of the amateur. To meet the needs of the pro, therefore, Canon has expanded its FD range to include a new series of lenses. Designated the L Series, their superlative features and innovative design are setting new standards in optical performance.

hoice of professional and amateur alike.

L lenses have a distinctive red line engraved around the barrel and include the letter L after the aperture f/number. They include wide-angle, zoom, telephoto and super-telephoto lenses. Among the latter are the remarkably fast FD 500mm f/4.5L and FD 800mm f/5.6L. Virtually free of spherical and chromatic aberration even at maximum aperture, they are ideally suited for news and sports photography. The fastest lenses of their focal length, the FD 300mm f/2.8L and FD 400mm f/2.8L are perfect for night or indoor shooting, such as in a theater, as well as documentary photo-

To produce lenses of such superb quality called for the application of computerized design techniques, special materials and new technologies, some of which are described here. The facts make fascinating reading. You'll find the results equally remarkable.

Aspherical Lenses

The spherical shape of most lenses tends to cause spherical aberration. Spherical aberration generates flare which lowers contrast so that the image lacks sharpness. It is particularly prevalent at large apertures and is due to the different refractions and focal points of the light rays that pass through the lens. Aspherical lenses such as the FD 24mm f/1.4L, FD 50mm f/1.2L and FD 85mm f/1.2L solve this problem. Their aspherical elements have a gradual curve towards the edges so that all rays refracted by the lens come to a common focus. An aspherical element also successfully combats another problem - barrel distortion - at the shortest focal length of the FD 20-35mm f/3.5L wide-angle zoom.



Common focus of paraxial and marginal rays attained by aspheric lens surface.



Correction of chromatic aberration in an apochroma



+ Wave length (mµ) Depth of focus at f/5.6 Secondary spectrum

Fluorite and UD Lens Glass

Chromatic aberration which refers to the rainbow hue that can sometimes be seen around the edges of the image arises when normal optical glass is used in the lens construction. White light passing through separates into a rainbow of colors, each of a different wavelength. Blue light which has a relatively short wavelength is sharply bent after entering the lens so that it comes to a point of focus close to the lens. Red light, with the longest wavelength, bends much less severely, with the result that convergence is much farther back along the axis. In telephoto lenses, chromatic aberration increases in direct proportion to the increase in focal length. Canon, after years of intensive research and experimentation. succeeded in developing two types of materials which effectively eliminate this undesirable phenomenon: Fluorite and

Fluorite is a crystal composed of calcium fluoride. Its superior optical characteristics, including low refractive index, extraordinary partial dispersion and lower dispersion than ordinary glass plus its high transmittance for a wide range of wavelengths enable production of high quality and compact, long-focal-length lenses such as the FD 300mm f/2.8L, FD 400mm f/2.8L and FD 500mm f/4.5L. Manufacturing large fluorite crystals is

a lengthy process, however, Canon's search for an optical glass which could be produced in greater quantity for incorporation in long, fast lenses without loss of image quality led to the development of UD Glass. Short for Ultra-low Dispersion, UD Glass has characteristics similar to those of fluorite. Its low refraction and dispersion indices enable edge-to-edge sharpness due to a reduction in the secondary spectrum. It is used in lenses · 500mm f/4,5L, FD 300mm f/4L and FD

such as the FD 800mm f/5.6L, FD 300mm f/2.8L.

Specifications

Type: 35mm single-lens reflex (SLR) camera Format: 24 × 36mm

Interchangeable Lenses: Canon FD (for full-aperture metering) and Canon FL, R and non-FD (for stop-ped-down metering) series lenses Standard Lenses: FD 50mm f/1.2, FD 50mm f/1.4

Lens Mount: Canon breech-lock mount Exposure Modes: Match-needle and stopped-down manual exposure. Shutter-priority AE possible h FN and setting lens' aperture ring to "A". Aper-ture-priority AE and stopped-down AE possible by attaching AE Finder FN and setting shutter dial to "A". AE flash possible with specified Canon Speed-

Viewfinder: Interchangeable eye-level pentaprism as standard. 97% vertical and horizontal coverage of actual picture area with 0.8x magnification at infini-

Aperture scale with f/stops from f/1.2 to f/32, overex posure and underexposure warning marks, meter needle, aperture needle and battery check/stopped down metering index are displayed to the right of the field of view. Shutter speed displayed below aperture scale: speeds include 1/2000 to 1 sec.. "I" and "B" in green; full seconds of 2, 4 and 8 are in

Viewfinder Illuminator: Provided; illuminates aperture scale and shutter speed for 16 seconds when meter mode selector is set to "LIGHT" and shutter button pressed halfway. Eyepiece Shutter: Built-in. Keeps out extraneous

light during self-timer and remote control operation Dioptric Adjustment: Built-in eyepiece adjusted to standard –1 diopter Focusing Screen: Standard split-image/microprism

rangefinder. Thirteen types of interchangeable screens are optionally available. Light Metering System. Through-the-lens (TTL) me-tering by silicon photocell (SPC). Metering area is determined by special optical element incorporated in each focusing screen. Center-weighted average, se-

lective-area and spot metering are available by chang-Meter Coupling Range: EV-1 (8 sec. at f/1.4) to EV 20 (1/2000 sec. at f/22) with ASA 100 film and f/1.4

Exposure Preview: By turning meter mode selector to

Meter Modes: At "NORMAL", meter activated as long as shutter button is pressed halfway; at "HOLD", meter, once activated, stays on for 16 sec at "LIGHT", meter, once activated, stays on for 16 sec, and viewlinder information is illuminated.

Exposure Compensation Dial: ±2 f/stop range in 1/3 f/stop increments: 1/4 ... 1/2 ... 1 ... 2 ... 4

Shutter: Horizontal-travel, titanium focal-plane shutter with four spindles. Electromechanical hybrid con-trol. Mechanically controlled at speeds from 1/2000 to 1/125 sec., "2" (1/90 sec.) and B. Electronically controlled at speeds from 1/60 to 8 sec.

Mechanical Shutter Operation: By removing battery from battery chamber. Only mechanically-controlled

speeds can be used. Mirror: Instant-return type with shock-absorbing

ISO (ASA) Film Speed Scale: ASA 6-6400. ISO (ASA) Film Speed Scale: ASA 6 - 6400.

Santer Disk: 1,2000 to Sec., "A '(100 or agrentishment Disk: 1,2000 to Sec.) "A '(100 or agrentishment Disk 1,2000 to Sec.) "A '(100 occ.) shatter speed: Film 1,2000 to Sec. by the speed "B" and 'speed; "B" and 'September Speed "B" and 'speed and "A" is in red. of the speed "B" and 'speed speed spe

At "L", all active circuits are cut off as a safety feature. "S" position is for self-timer operation. Self timer: Electronically controlled. Main switch set to "S". Activated by pressing shutter button. Ten-second delay with electronic "beep-beep" sound.

Number of beeps emitted per second increases two seconds before shutter release. Cancellation possii Stop-down Slide: For depth-of-field preview (FD lens) or stopped-down metering (non-FD lens or

Power Source: One 6V alkaline-maganese (Eveready [UCAR] No. 537), lithium (Duracell PX 28L) or silver oxide (Eveready [UCAR] No. 544) battery. Battery lasts about one year under normal use.
Battery Check: By pressing battery check button.
Battery power is sufficient if the meter needle registers above the battery check index. Cancellation of Camera Circuit: By pressing battery check button. Cancels shutter operation, self-timer operation, meter reading and viewfinder illumina

Multiple Exposure: Possible by engaging rewind lever before winding film advance lever to recock the shutter. Cancelled by lightly pressing shutter button Flash Synchronization: Speeds up to 1/90 sec. with electronic flash; FP- and M-syne at 1/30 sec. or electronic flash; FP- and M-sync at 1/30 sec. slower. Direct contact at accessory shoe for hot-shoe flash. Threaded PC socket (JIS-B type) for cord-type flash or multiple flash photography. Accessory shoe has contact for normal automatic flash and special contact for AE flash with specified Canon Speed-

Automatic Flash: New Canon Auto Tuning System (New CATS) with specified Canon Speedlites. Shutter speed is automatically set to 1/90 sec. with shutter dial at any setting except B. Meter needle indi-cates auto working aperture in the viewfinder as soon as Speedlite's pilot lamp glows. Correct exposure automatically as well when AE Power Winder FN of AE Motor Drive FN is attached and lens' aperture

Slow-Sync Flash Photography: Possible with Speedli-tes 199A, 533G and 577G. Flash synchronizes with shutter speed set at slow settings from 1/60 to 8 sec. snutter speed set at stow settings from 1/60 to 8 se Camera switches automatically to 1/90 sec. when shutter dial is set at 1/2000 to 1/125 sec. or "27". Camera Back: Opened by pressing safety stopper while pulling up rewind knob. Removable for at-taching Data Back FN or Film Chamber FN-100. Film Loading: Via multi-slot take-up spool. Single stroke 139" throw with 30" stand-off. Ratchet

Frame Counter: Additive type. Automatically resets to "S" upon opening camera back. Advances during

Film Rewinding: By turning rewind lever clockwise while pressing it down and turning rewind crank. Rewind lever automatically resets when camera back is opened and when shutter button is lightly pressed. Other Safety Devices: Camera will not function when power level insufficient or when lens' aperture ring is set to "A" and the power winder or motor drive is not attached. Film winding impossible while shutter is in operation. Dimensions: 146.7mm(W) × 48.3mm(D) × 96.6mm(H); 5-11/16"(W) × 1-15/16"(D) × 3-13/16"(H)

Weight: 795 g (28-3/8 ozs.) body only; 1030 g (36-5/16 ozs.) with FD 50 mm f/L4 lens.

Subject to change without notice.