

CODE NO.
C13-2201-211

DESCRIPTION
Canon Super Sure Shot
AF35ML w/lens 40mm
f/1.9 and built-in flash in
case.

Canon AF35ML
SUPER
SURE SHOT
CAFS

The Canon AF35ML— New Standards for Autofocus Cameras



SPECIFICATIONS

Lens

1. Focal Length/Aperture: Canon Lens 40mm, f/1.9
2. Lens Construction: 5 group, 5 element; Xenotar type; Spectra coating.
3. Focus Distance: 0.9m (3 ft.) to ∞
4. Filter Thread Diameter: 48mm

Autofocus/Prefocus

1. Type: Canon-engineered Solid-State Triangulation (S.S.T.) Autofocus system activated by shutter release button
2. Operation
 - (a) Focusing signal produced with first stroke of shutter release button—focus on object in bright focus frame in viewfinder.
 - (b) LED-illuminated zone focus symbols; focus information stored in memory.
 - (c) Removing pressure from release button cancels focus memory/may be reset any number of times by aiming at subject, depressing release button.
 - (d) Final lens focus initiated by fully depressing shutter release.

Shutter (Canon)

1. Type: Programmed dual purpose (shutter/aperture) blade shutter; Electromagnetic release.
2. Shutter Speeds: 1/4 to 1/400 second.

Automatic Exposure Mechanism

1. Type: Programmed AE using a Silicon Photocell (SPC) located behind an auxiliary aperture coupled to the main aperture.
2. Metering Field: 20°
3. Meter Coupling Range: EV4 (f/1.9 at 1/4 sec.) to EV17 (f/18 at 1/400 sec.) with ASA 100 film.
4. ASA Film Speed Scale: ASA 25 to 400 in one-third step increments.

Viewfinder

1. Type: Albada type finder.
2. Magnification/Coverage: 0.5X/85% vertical, 85% horizontal
3. Viewfinder Information: Three zone focus symbols (individually illuminated); Bright frame with parallax correction marks (0.9m-1m); Autofocus frame.

Film Loading: Automatic loading by differential drive take-up spool and film transport sprocket.

Film Advance/Rewind

1. Type: Motorized, automatic film advance and rewind, activated by shutter release button and following exposure.
2. Advancing Speed: Slightly more than 1 fps; Rewind Speed: Less than 25 sec. for 36 exposures.
3. Film Movement Confirmation: By Film Transport Indicator at rear of camera.

4. End of Film Indicator: Tension sensor automatically stops motor and causes electronic beeper to sound for 5 seconds

Continuous-Sequence Photography: By holding the shutter release button depressed. (Except when using flash.) Single frame by depressing and releasing shutter.

Flash

1. Type: Built-in pop-up type with flashmatic mechanism coupled to FLASH ON switch for automatic flash exposure.
2. Flash Guide Number: 11 (ASA/ISO: 100/21; 18 (ASA/ISO: 25/15; ft.) Coupling Range: 0.9m to 5.7m or 3 ft to 18-1/2 ft.
3. Recycle Time: Less than 7 sec.
4. Number of Flashes: Over 180 (using fresh AA (penlight) alkaline-manganese batteries at normal temperature)
5. Color Temperature: Daylight equivalent.

Alarms/Indicators (Audible)

1. Type: Piezo Ceramic Buzzer
2. Functions: Self-timer alarm, 2-step (1.3 Hz, 5.2 Hz); Film end indicator (2.7 Hz); Camera-shake warning (continuous "beep" sound); Battery-check (8–10 Hz)

Self-Timer

1. Type: Electronic; operation indicated by electronic beeper.
2. Time: 10 seconds. Operation may be cleared by Mode Selector.
3. Focus: Camera focuses after self-timer operation completed, immediately prior to shutter release.

Frame Counter: Additive type. Coupled to rewind mechanism. Counts back frames as film is rewound. Automatically reset to "S" upon opening back cover.

Power Source: Two size AA alkaline-manganese batteries. Battery check activates electronic beeper to indicate good battery condition.

Battery Life

1. Normal Exposure: Approximately 30 rolls of 36-exposure film (normal temperature, alkaline-manganese batteries)
2. Flash Exposure: Approximately 180 exposures (normal temperature, alkaline-manganese batteries)

Mode Selector: Selects Battery Check or Self-Timer function, and turns camera circuits ON/OFF.

Back Cover: Hinged back. Open by sliding down back cover opening latch.

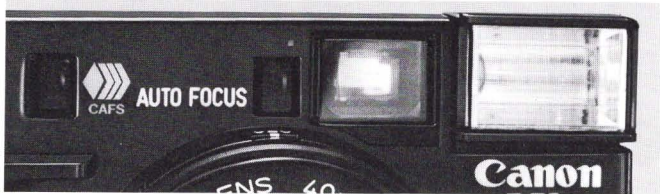
Tripod Socket: CU 1/4"

Dimensions: 121.5mm(W) × 72.6mm(H) × 55.3mm(D), (4-13/16" × 2-7/8" × 2-1/4")

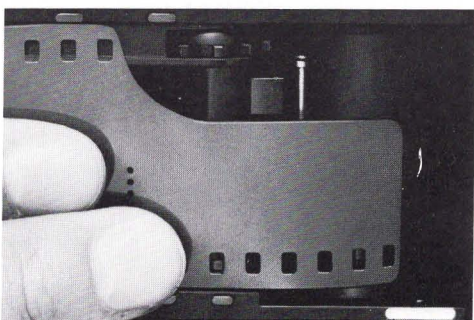
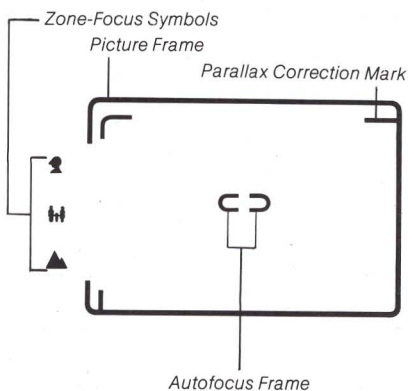
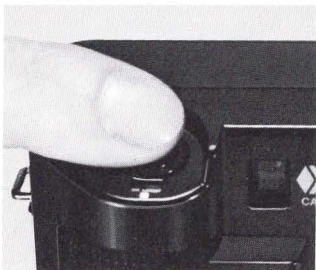
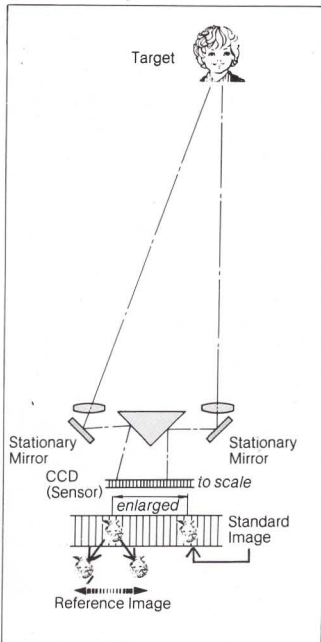
Weight: 440g (15-1/2 ozs.) including batteries.

Subject to change without notice.

SELLING POINTS



Canon SST Autofocus System



1. Autofocus (AF) and Prefocus

The Solid-State Triangulation (SST) autofocus system is an exclusive Canon design, originally developed for the AF514XL-S movie camera. The advantage this system offers over other autofocus modules is in greater focusing accuracy. This, in turn, allows using a faster, high-quality lens.

Operation is simple and straightforward. The photographer simply centers the subject in the autofocus frame (center of viewfinder), and presses the shutter release button half way down to check the focus. This is indicated by one of the three LED illuminated zone-focus symbols. Depressing the shutter release button the rest of the way focuses the lens, immediately followed by shutter release for exposure.

Operating Principle

Light is received from the subject through the two autofocus windows. The ray entering the window on the right forms the standard image, and rays from different areas of the subject enter the window on the left. These rays strike stationary mirrors, pass through the focusing lenses and reflect from a center prism. They then come to focus on a row of CCD line sensor elements. This line sensor consists of many minute elements (for accurate resolution). Each element converts the brightness of the light falling on it into an equivalent electrical pulse. The signals then pass to the CPU (Central Processing Unit) for a comparison of the reference signal and the variable signals. When matching ones are found, the triangulation value θ is calculated and stored in the CPU memory. (A signal is also produced, lighting the zone focus symbol LED.)

When the shutter release button is fully depressed, the lens starts its travel toward the infinity position, transmitting a lens position signal to CPU. When this signal matches the one present in the CPU, a lens stop signal immediately locks the lens in that position.

This seemingly complicated process takes place in less time than required to fully depress the shutter release button at normal speed.

Prefocus (focus lock)

The prefocus procedure is simple, with elimination of the complex procedures. One of the difficulties encountered in all AF cameras is the inability to focus on an object that is not centered in the viewfinder. With the AF35ML, you center the main subject in the viewfinder and press the shutter release button half way to light one of the three zone focus symbols. Holding the shutter release button in that position, you then compose the scene as desired—and shoot. The subject on which you focused will be sharp.

This feature also provides a means by which you can deal with subjects normally difficult for AF cameras. You prefocus a substitute subject located approximately the same distance from the camera as the main subject. Then compose the main subject prior to making the exposure.

2. Zone Focus Confirmation

Another feature found in the AF35ML that the potential buyer should find attractive is Zone-Focus Confirmation. This consists of the three zone focus symbols, invisible in the viewfinder display until one is illuminated by the LED switched ON when focus is obtained. This lets the photographer know in advance where the lens will focus when the shutter release button is fully depressed.

3. Autoloading

This innovative feature was developed by Canon technology especially for the AF35ML. Simply load the film cartridge in the film chamber and align the film leader to the orange mark on the lower frame of the take-up side of the film chamber, make sure the teeth of the transport sprocket are engaging the film perforations and close the back cover. Then, while observing the Film Transport Indicator to make sure the stripes move (indicating film movement in either direction), fully depress the shutter release button until the "1" appears in the frame counter window.

What happens during autoloading is simple. The film transport sprocket advances the film while the faster rotating take-up spool grips the film to wind it in a tight roll.

Use the operational simplicity and sureness of the mechanism as a sales point.

—continued on page SG4-4—

NOMENCLATURE

Exposure Metering Window

ASA Lock Button

ASA Film Speed Setting Ring

Lens

Neckstrap Rings

ASA Film Speed Scale

Frame Counter

Shutter Button

Pop-up Flash

Autofocus Windows

Viewfinder

Film Transport Indicator

Mode Selector

Flash-Ready Lamp

Viewfinder Eyepiece

Flash Switch

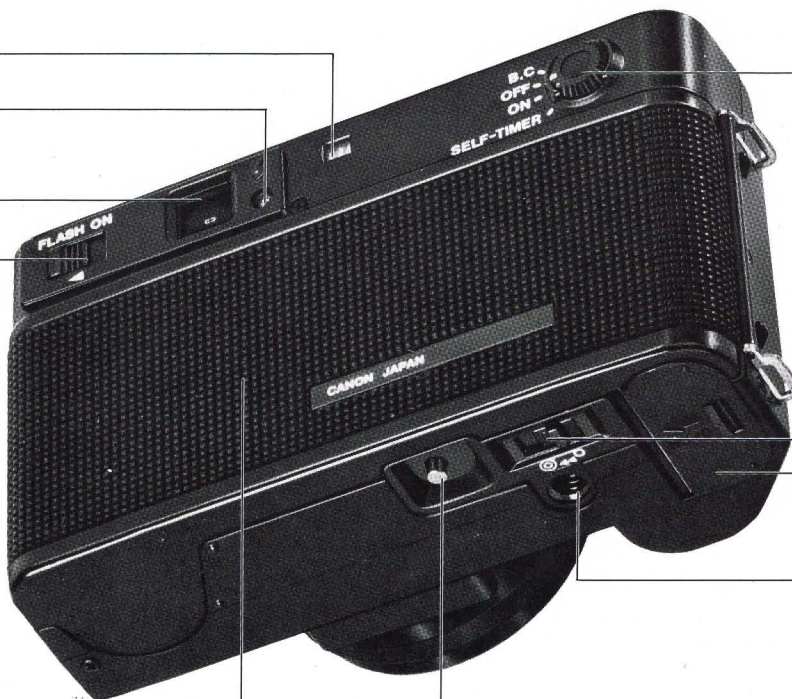
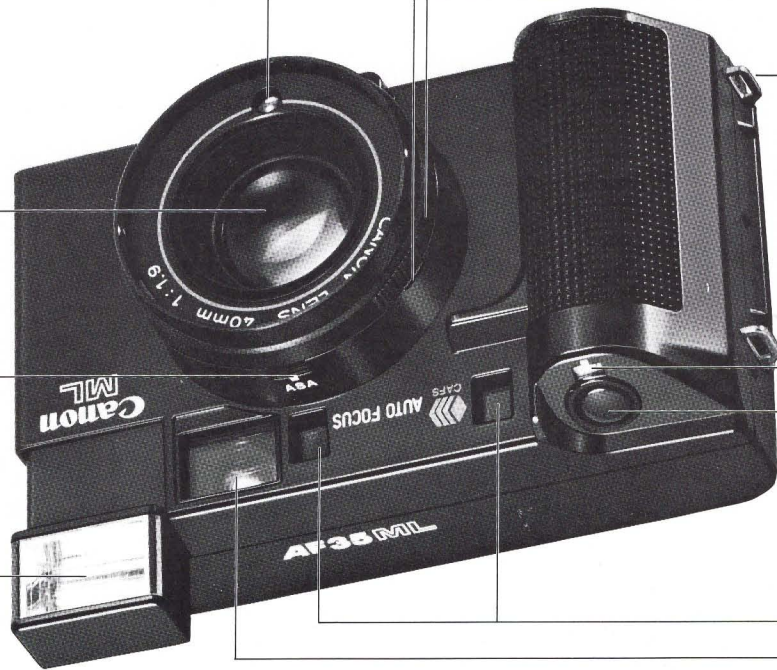
Power Rewind Switch

Battery Chamber Cover

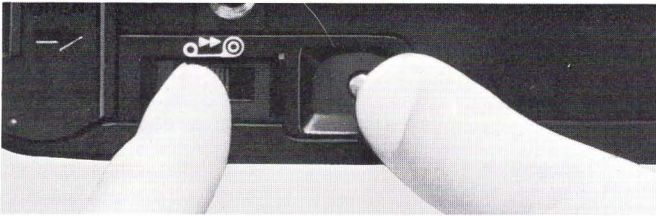
Tripod Socket

Film Rewind Button

Camera Back



SELLING POINTS



4. Autowind-Rewind

Of all the 35mm AF cameras on the market today, only the Canon AF35M and AF35ML feature motorized power film advance and rewind. You'll find no film advance lever or rewind knob on the camera.

Film advance is not coupled directly to shutter release button operation on the AF35ML, but automatically occurs as soon as shutter operation is completed. (See Continuous Shooting Capability below.) The shutter release/film advance cycle requires less than 1 second to complete.

At the end of the film, the electronic beeper sounds, and film rewind is accomplished by the operator pressing the Film Rewind Button and sliding the Power Rewind Switch over.

The greatest advantage of Autowind is that it lets the photographer concentrate solely on the creative aspects of taking a picture.

5. Continuous Shooting Capability

Another feature exclusive to the AF35ML is Continuous Shooting capability. When the action gets fast, just continue holding the shutter button down for shooting speeds of up to 1 fps. No attachments required; no extra operations. . . . this feature is part of the normal picture-taking procedure.

6. Automatic Exposure

The programmed AE (Auto Exposure) mechanism almost instantaneously gathers all the information required for proper exposure. After ASA has been set, all operations are simply a part of shutter button operation.

7. Canon 40mm f/1.9 Lens

The focusing accuracy of the SST AF system makes the use of this fast, high-quality lens possible. The lens doesn't have to compensate for focusing errors inherent in less accurate AF systems. The overall length and weight of the lens has also been reduced contributing to the compact design of the camera, and making it easier, more natural to handle. Spectra Coating assures brilliant colors and sharp contrast.

No other AF camera uses a lens this fast, or of this high a quality.

8. Automatic Flash

The built-in flash is computer-designed especially for the AF35ML. The efficiency of this design results in a much more compact unit than found on other cameras. The Flashmatic mechanism provides automatic exposure from normal AE to make sure exposure is correct.

Operation is extremely simple; if the camera-shake warning beeper sounds when the shutter button is pressed halfway, just pop up the flash by sliding the FLASH ON switch in the direction of the arrow.

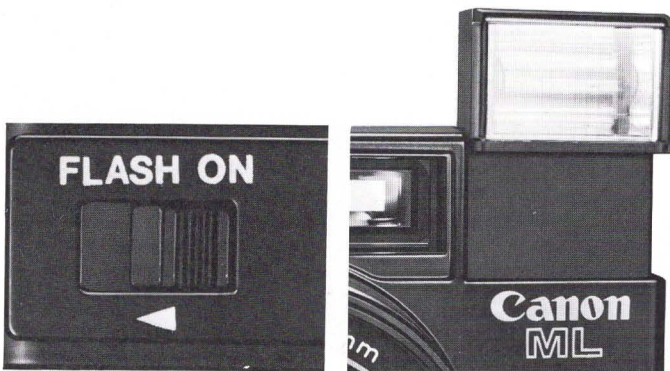
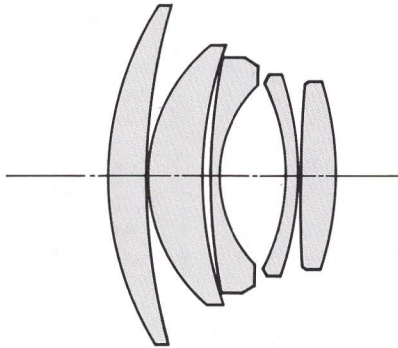
9. Audible Check/Warning System

The electronic beeper check/warning system replaces all needles and LEDs with a centralized, audible system. It covers all functions that the user requires information on by producing a different frequency tone for each check. The functions covered are as follows:

- Battery check
- Self-timer operation
- Camera-shake warning
- End of film

10. Mode Selector

With the exception of the shutter button and ASA speed setting dial, all other operations for normal photography are centralized in the Mode Selector. This simple switch serves to check the battery condition (B.C.), activate the self-timer, and turn the camera circuitry ON and OFF.



ACCESSORIES

CODE NO.	DESCRIPTION
C46-1131	Case for Super Sure Shot AF35ML
C56-1231	Neck Strap 12 for Super Sure Shot AF35ML
43-7080	Lens Cap for Super Sure Shot AF35ML