

CANON EOS 750

choose high shutter speeds, but it's not quick enough to use with fast-moving subjects. Again, there's no way to know exactly what aperture is being set, but at least steady hand-holding should not be a problem.

To set the self timer, you turn the 750's control wheel to a clock symbol. Press the shutter

button to start the ten-second electronic timing cycle, which is audibly signaled by eight seconds of medium-tempo beeping followed by a fast two-second finale. Finally, the control wheel also has an "L" position, which locks the shutter and prevents battery drain.

As we stated earlier, only the 750 has a built-in flash. As long

as the camera's top-deck slider switch is in the auto-flash position, this flash unit is fully integrated with the AE program. In bright light, the flash remains out of sight. But if the evaluative metering system detects low light or heavy backlighting, the flash unit automatically turns on and pops up.

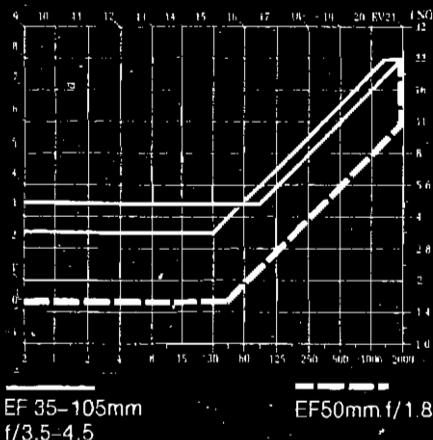
While the flash is cycling—

usually about two seconds—the "P" in the viewfinder blinks. The "P" glows when the flash is ready, and you can take the picture. Just before exposure, the evaluative metering system chooses an f/stop and shutter speed (between $1/60$ and $1/125$ second) according to the ambient light. During exposure, an SPD at the bottom of the mirror

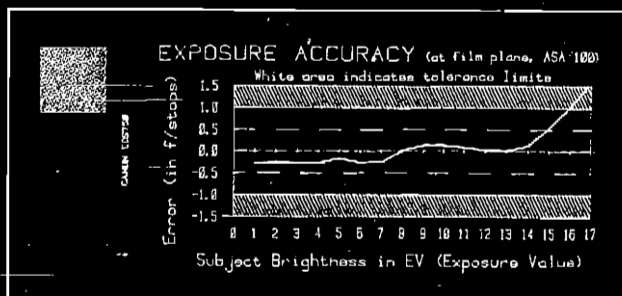
LAB RESULTS: CANON EOS 750 NO.1009426

GENERAL PERFORMANCE

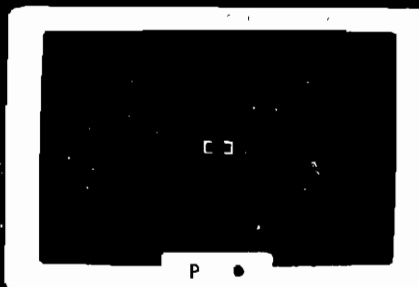
Checkpoints	Our Standard	As Tested
FINDER:		
Apparent viewing distance	Between infinity and 20 in. (0.5m)	39 in (1.0m)
Apparent distance of shutter-speed scale	Between 79 in (2.0m) and 26 in (0.7m)	39 in (1.0m)
View area compared to film area	Vertically and horizontally more than 90%, less than 100%	Vertical: 93% Horizontal: 91%
Parallax error compared to film	Vertical: 0.8mm Horizontal: 1.6mm	Vertical: 0.05mm (up) Horizontal: 0.5mm (right)
Focusing accuracy at maximum aperture	Within depth of focus	No discrepancy
Image magnification	0.80±.1X	0.78X
PICTURE SIZE:		
	24±0.6mm X 36±0.9mm	23.7mm x 36.1mm
SHUTTER:		
Curtain travel evenness	±0.33 stop	0.28 stop
Insulation from sync	More than 7 megohms	Infinity
Sync contact efficiency	More than 60%	82% (hot shoe)
Sync delay time	X: within full opening	Okay
Shutter curtain-bounce	Not allowed	None
Self timer delay	7-15 sec.	11 seconds
CAMERA NOISE:		
	74 dB(a), average for a motorized AF SLR	
CAMERA SIZE:		
	Body: 5 $\frac{1}{8}$ in. wide X 4 $\frac{1}{8}$ in. high X 2 $\frac{3}{8}$ in. deep (152 X 103 X 67mm) Lens: 1 $\frac{5}{8}$ in. long, 2 $\frac{5}{8}$ in. diameter (41 X 67mm)	
WEIGHT:		
	Body: 1 lb 7 $\frac{1}{2}$ oz. (662g) with batteries Lens: 6 $\frac{1}{2}$ oz. (184g)	



The AE program automatically adjusts to the lens or zoom focal length in use, for steady hand-held shooting. The camera-shake warning flashes if shutter speed is below bend point of program.



Note: Overexposure above EV 14 is caused by 750's evaluative meter, which assumes that bright light source used for testing is really the background to a darker main subject. This AE compensation works well with real-life subjects, and is not a malfunction.



"P" LED glows if exposure is right, blinks as camera-shake or out-of-range warning. LED circle glows when focus is correct, blinks otherwise.



Lab Results:
Canon EF 50mm
f/1.8
No.101546D

RESOLUTION

Canon 50mm f/1.8
at 1:50

f/	Center (l/mm)	Corner (l/mm)
1.8	Good	45
2.8	Good	50
4.0	Good	56
5.6	Good	63
8.0	V. Good	63
11	Excellent	63
16	V. Good	56
22	Accept	50

PERFORMANCE

Our Standard	as Tested
Focal length: ±5% (47.50-52.50mm)	51.09mm
Aperture: ±5% (f/1.71-1/89)	f/1.89
Distortion: (±1.5%)	0.46% (barrel)
Light falloff: at f/5.6 +1 stop from theoretical limit (-0.15 stops)	0.7 stops

CONTRAST

Canon 50mm f/1.8
at 30 lines/mm

f/	Center (%)	Corner (%)
1.8	High	53
2.8	High	53
4.0	High	67
5.6	High	64
8.0	Medium	52
11	High	51
16	Medium	46
22	Low	38

MODERN TESTS



To activate Speedlite 180E press the shutter button halfway. A flash ready indicator shows charge in capacitor, green signal for quick charge (GN 26 feet, ISO 100) and red for normal (GN 36 feet).

200mm f/1.8 and a 600mm f/4, are sophisticated, fast members of the pricey "L" series. At the other end of the focal-length spectrum is a 24mm f/2.8 wide-angle. In between, and more relevant to the typical EOS 750/850 user, are a pair of inexpensive zooms. The compact 35-70mm f/3.5-4 and 100-200mm f/4.5 both have "A" designations, which means they are intended for AF operation only, and for that reason lack the usual manual-focus switch and external focusing ring, cutting the price on these optics.

50mm f/1.8 Canon EF

Specifications: 50mm f/1.8 Canon EF, No. 1015460 in Canon EF auto-focus mount, accepts 52mm accessory; f/1.8-22 settable in half stop; minimum focal distance, 18 inches (0.45m); \$139.

Practical comments: Auto-focuses very quietly from infinity to minimum distance in 0.56 seconds (at EV 13 with high-contrast test target); in manual mode, focuses very smoothly over same range in just under 180 degrees clockwise turn of 1/4 inch-wide textured focusing collar. No external aperture ring; legible green (feet) and

In fact, the EOS 750 and 850 could also be characterized as fine ways to achieve top-notch photographic results without spending a ton of money. The 750, in particular, offers every nuance of automated convenience that point-and-shooters crave, along with the superior viewing, AF, and AE operation of a modern SLR. And with the Speedlite 180E in place, the 850 operates just as easily, with a touch more flash power. We can't tell you how to decide between the EOS 750 and 850, but either one is a sure winner for the SLR beginner. ■

white (metric) numerals; limited (two aperture) depth-of-field scale; ribbed barrel facilitates lens mounting and removal; good dull black finish.

Field test slides: Overall, slides crisp and snappy. Wide open, corners slightly soft; improves noticeably at f/2.8 with corners equal to center by f/4. Flare well-controlled throughout. Overall, somewhat above average performance.

Optical bench analysis (for optical experts only): On axis, slight overcorrected spherical aberration with very slight red-green flare, gone by f/5.6. Diffraction limit reached by f/16. Off axis, very slight skew-ray flare mixed with very slight coma, both almost gone by f/11. Lateral color present.

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The equipment, like the sample tested by Modern Photography, will equal or better Modern Photography's laboratory and field test performance requirements or the item will be repaired or replaced until it does. Purchaser must notify warranty issuer of such failure within 45 days of receiving item from store where it was purchased. If the equipment cannot be furnished to specifications, the purchaser will receive a refund of actual purchase price provided items are returned in original condition and packing together with the sales slip, at the expense of the purchaser. The supplier will pay postage to return merchandise to the purchaser. This warranty gives the purchaser specific legal rights and he may also have other rights that vary from state to state.

The Seal may appear on the product itself, in advertisements in promotional materials, or on warranty cards at the discretion of the supplier. Repair, replacement or refunding will be done by the supplier and at his discretion and not by Modern Photography Magazine. This limited warranty is in addition to whatever warranties limited or full, that the supplier may give. Purchasers must furnish adequate proof of the equipment's disability in terms of inaccurate exposures, shutter speeds or poor optical quality, films or slides showing proof must be furnished with proper identification of the warranty issuer—the same type of proof your repairman would like to have to check malfunctioning equipment.

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Type	Minimum Resolution Standards							
	Aperture				f/11-22			
	Max. Center	Next Corner	Middle Center	Middle Corner	Max. Center	Next Corner	Middle Center	Middle Corner
35mm Camera Lenses								
Fasteye No. 10mm	36	30	36	30	36	30	36	30
17 to 34 5mm	36	30	36	30	36	30	36	30
25 to 39 5mm	36	30	36	30	36	30	36	30
35 to 56mm faster than 1:2	36	30	36	30	36	30	36	30
40 to 60 5mm	36	30	36	30	36	30	36	30
40 to 60 5mm faster than 1:2	36	30	36	30	36	30	36	30
61 to 92 5mm	36	30	36	30	36	30	36	30
136 to 250 5mm	36	30	36	30	36	30	36	30
201 to 500 5mm	36	30	36	30	36	30	36	30
501mm and longer	36	30	36	30	36	30	36	30
Zoom Lenses								
35 to 56 5mm	36	30	36	30	36	30	36	30
40 to 60 5mm	36	30	36	30	36	30	36	30
61 to 136 5mm	36	30	36	30	36	30	36	30
136mm and longer	36	30	36	30	36	30	36	30
2 1/4 x 2 1/4 Camera Lenses								
to 75 5mm	36	30	36	30	36	30	36	30
75 to 94 5mm	36	30	36	30	36	30	36	30
95mm and longer	36	30	36	30	36	30	36	30
2 1/4 x 2 3/4 Camera Lenses								
to 59 5mm	36	30	36	30	36	30	36	30
60 to 89 5mm	36	30	36	30	36	30	36	30
90 to 119 5mm	36	30	36	30	36	30	36	30
120 to 499 5mm	36	30	36	30	36	30	36	30
500mm and longer	36	30	36	30	36	30	36	30
4 x 5 Camera Lenses								
all	36	30	36	30	36	30	36	30

MODERN PHOTOGRAPHY Minimum test requirements for Seal of Approval

Still camera and lens field-test standards

All features and controls must operate properly for the equivalent of 25 rolls of film, producing adequately exposed photographs of sufficient quality to meet professional standards for a camera and lens of that size and negative format when 11 x 14 in. black-and-white prints made from negatives of that camera and/or lens, or slides, are produced on a 40 x 40 in. screen and are viewed at normal viewing distance.

Still camera & lens laboratory standards

(Photographic products of special benefit or interest to readers which fall below our minimums may also appear with explanation in the text.)
Resolution: See chart. **Exposure accuracy:** ± 1 stop of proper

exposure. **Shutter-speed accuracy:** ± 1 stop of marked speed.

Apparent Viewing Distance: Between infinity and 20 in. **Apparent viewing distance of finder information:** within 1 diopter of measured viewing distance. **View Area Compared to Film:** Between 90% and 100%. **Focusing Accuracy at Maximum Aperture:** Within depth-of-focus image. **Magnification:** Within 0.1% of Manufacturer's specification. **Actual Picture Size:** Normal picture size ± 2.5%. **Curtain Travel Inevness:** ± 0.33 stop. **Camera inspection from sync:** More than 7 megahms. **Sync contact efficiency:** More than 60%. **Sync delay times:** Within full opening. **M.16-20ms:** Shutter curtain bounce; Not allowed. **Self timer delay:** 7-15 secs.