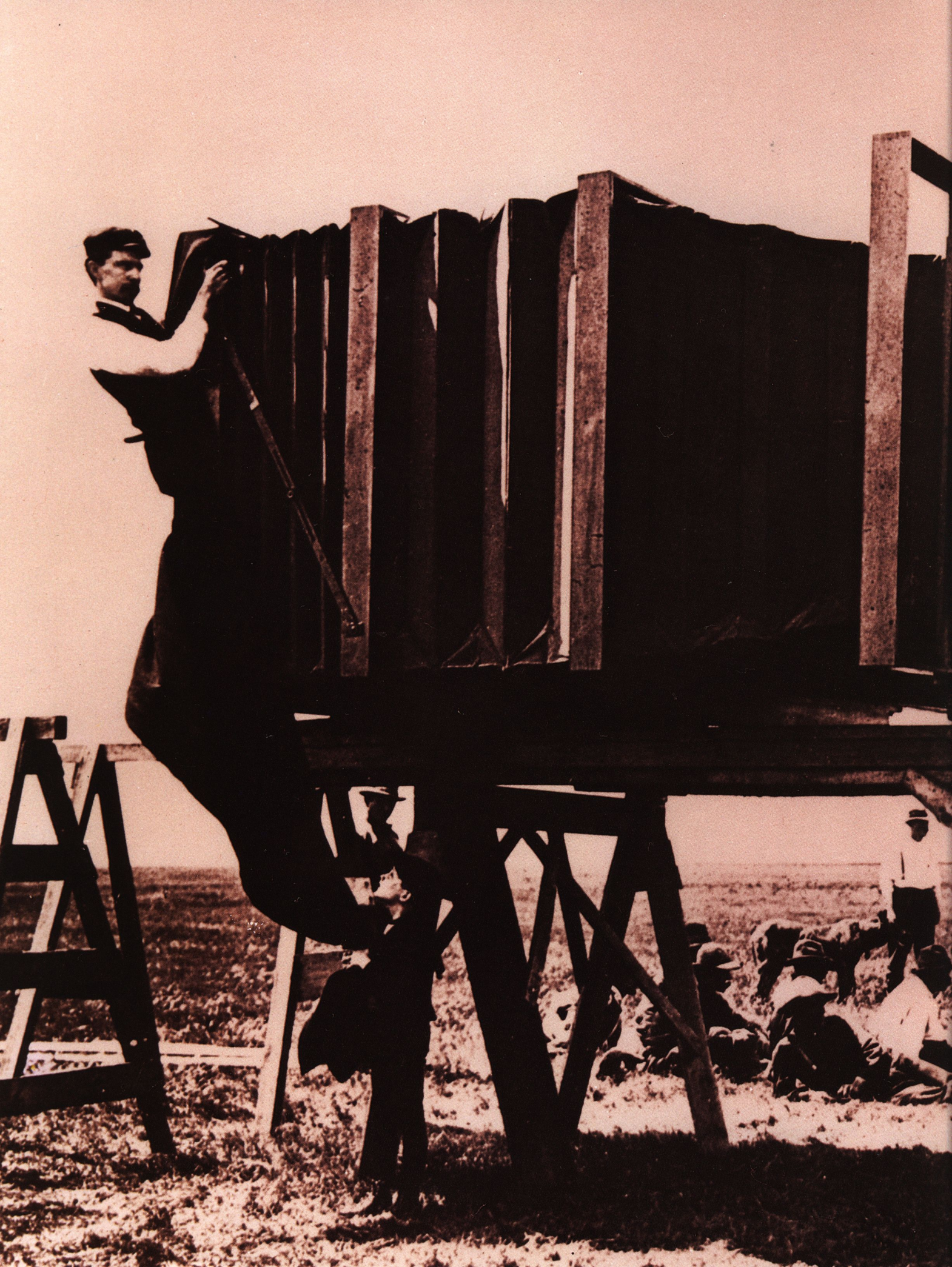


OLYMPUS®

OM-4

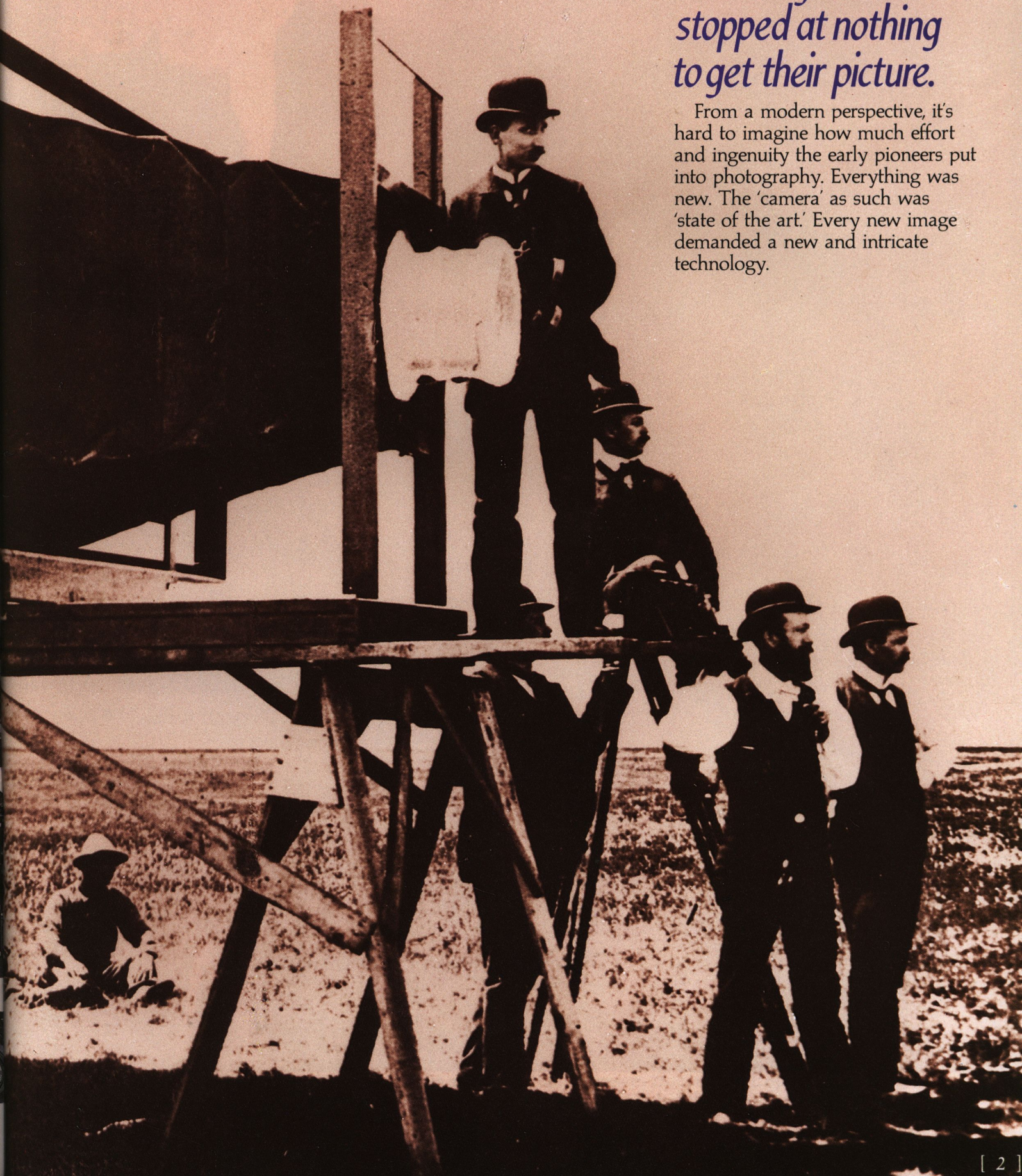


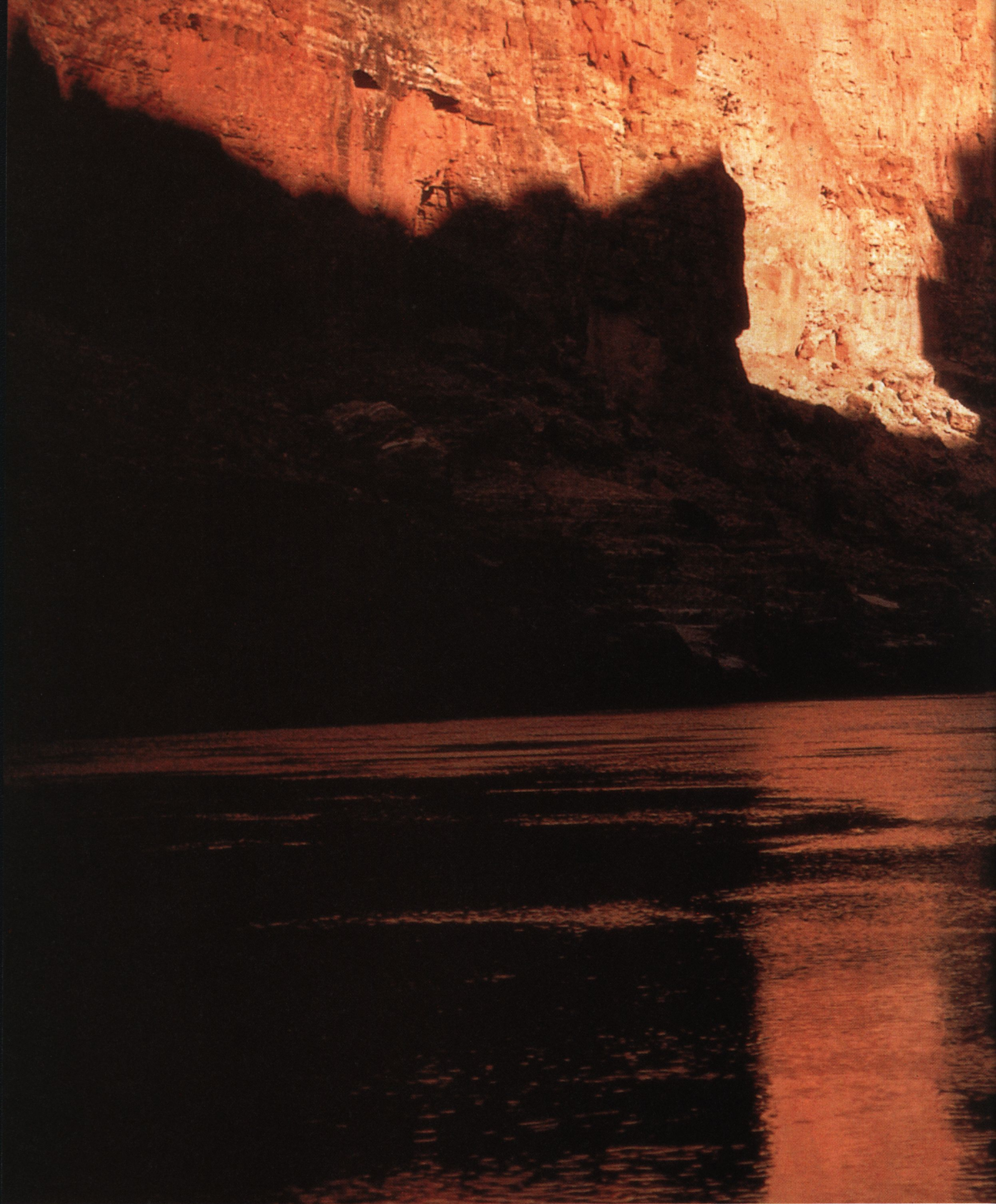
The Measure of the Professional



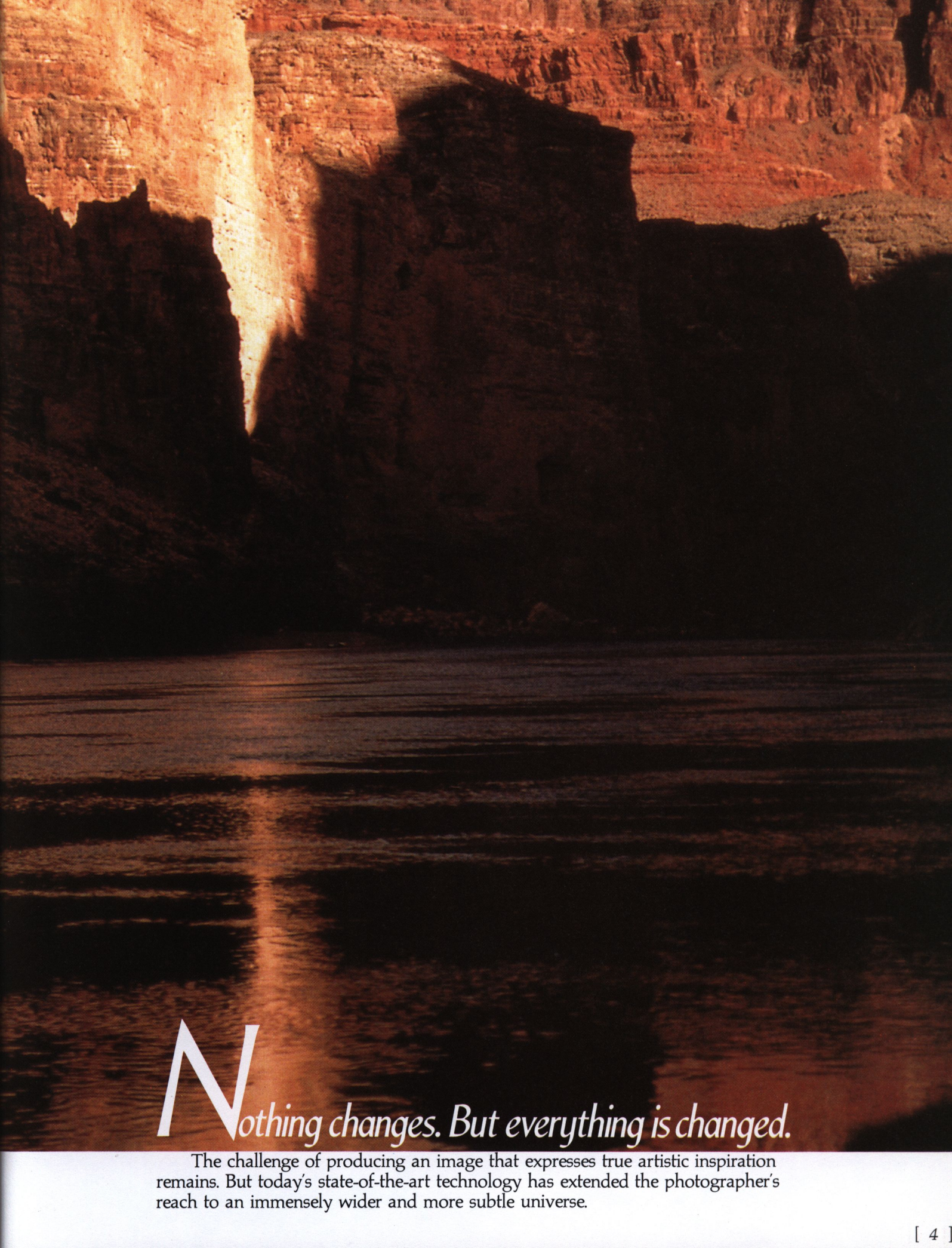
The early "Greats" stopped at nothing to get their picture.

From a modern perspective, it's hard to imagine how much effort and ingenuity the early pioneers put into photography. Everything was new. The 'camera' as such was 'state of the art.' Every new image demanded a new and intricate technology.





Grand Canyon by Ernst Haas



*N*othing changes. *But everything is changed.*

The challenge of producing an image that expresses true artistic inspiration remains. But today's state-of-the-art technology has extended the photographer's reach to an immensely wider and more subtle universe.



The OM-3 and OM-4.

The peak of creative technology.

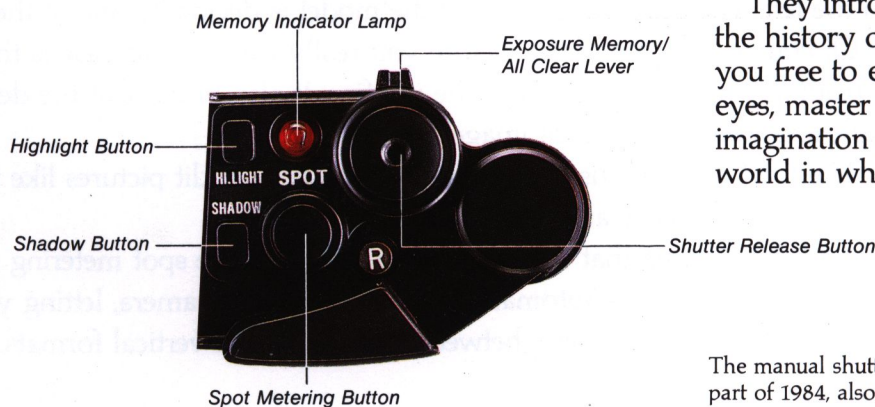
The OLYMPUS OM System has played a unique role in expanding the photographer's horizons. With the OM-1 that made 35mm SLR system photography truly functional and incredibly versatile. With the OM-2 that assured total, real time responsiveness to every subject. And now with the OM-3 and OM-4 that make you a master of light control.

The OM-3 and OM-4 embody a Multi Spot Metering system that captures the myriad shades of darkness and brightness you actually see when you look through the finder. Their new generation automation gives you instant precision in selecting the exact creative effects you desire. They mark the coming of a new era of intelligent electronics — an era that will determine the future of 35mm SLR photography as surely as did the OM-1 and OM-2.

Multi Spot Metering makes the professional's hand-held spot meter obsolete. Just as the built-in light meter or the built-in rangefinder did away with those cumbersome, time-consuming devices. Yet more, it brings you totally new functions at the touch of a button, that no other camera — and no other spot meter — can even approach. Multi Spot lets you expose automatically for one crucial area of the subject, or for as many spot readings as you like. It lets you expose for shadows or for highlights. It provides an ideal exposure memory for a whole sequence of shooting. And it works in perfect harmony with the most comprehensive 35mm photographic system ever conceived.

The new OM-3 and OM-4 add the excitement of Multi Spot Metering to a totally professional range of functions, features and precision engineering specifications.

They introduce a new stage in the history of photography, setting you free to explore with your own eyes, master with your own imagination and inspiration, the world in which we live.

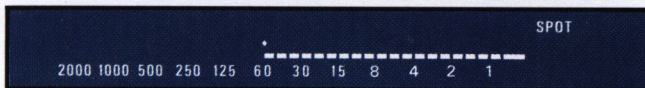
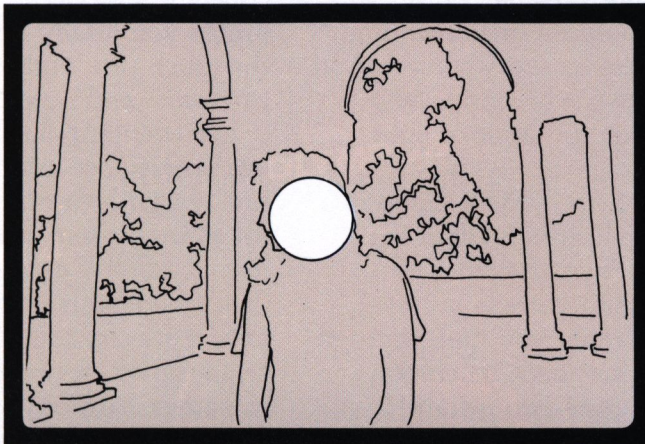


The manual shutter OM-3, available in the latter part of 1984, also features Multi Spot Metering.

A spot reading makes a world of difference.



Averaged Exposure



If you tried to shoot this picture with an averaged light reading, that's just what you'd get. See how beautifully the dark and light tones are balanced in the average-metered photo on the left. The only trouble is that the model is decidedly one of the dark tones.

Of course, the part of the picture you really want in this case is the model. And just one spot reading — of her face — does the job fine. It also brings out the detail in the architecture, improving the overall image.

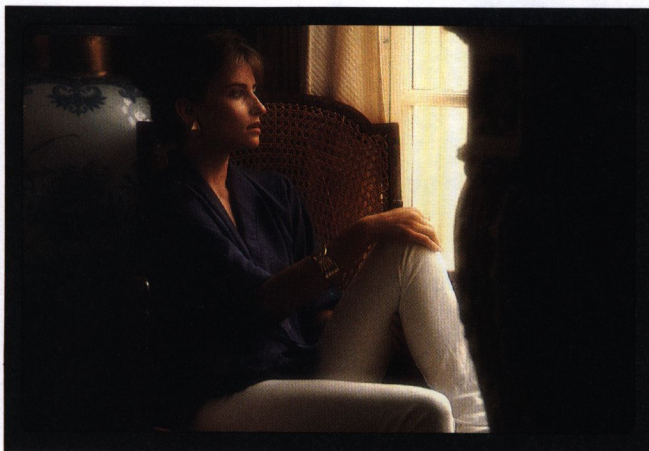
The OM-4's fabulous spot meter lets you get backlit pictures like this one perfect. Without years of experience and 'feel' to back you up.

And don't forget that the instant you switch to the spot metering mode, the exposure value you record is automatically locked into the camera, letting you frame the composition freely, or even change between horizontal and vertical formats.



ZUIKO 35mm F2

The artistic side of automation.



Averaged Exposure



There are one or two little tricks of the trade that help to make Multi Spot Metering even more creative than you might have guessed. This picture is a case in point. Capturing the romantic atmosphere in the image above involves a delicate juggling of various values of light. The clothing is important, and clearly deserves a spot reading to itself. But the face remains the key to the composition, and a merely equal balance between the two would fall somewhat short of perfection.

The solution? A single spot reading of the subject's clothes ... and two separate spot readings on the same area of her face. The final exposure value takes the clothing into account, but it puts twice as much emphasis on the face — which is precisely the effect we had in mind.

It's an unprecedented breakthrough in applying automatic precision to total creative freedom.

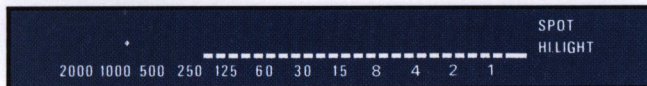
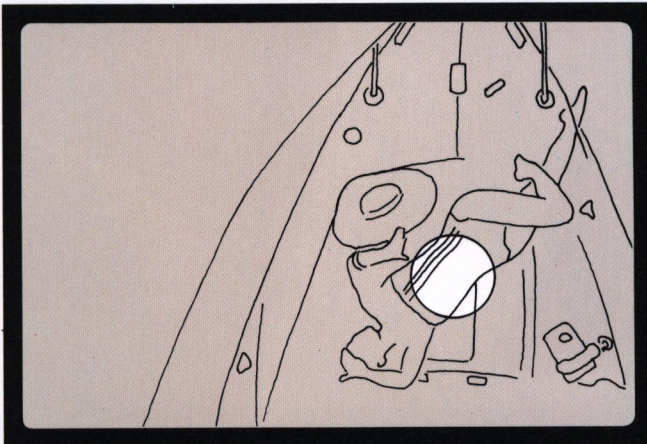


ZUIKO 135mm F2.8

Highlight control. The results are dazzling.



Averaged Exposure



When you think about it, average metering is precisely that — average. The average meter is absolutely delighted when the sum total of the lighting situation add up to a uniform value of gray.

But life's not like that, and neither are many photographers. Most people would agree that dazzling whites in brilliant sunlight look much nicer the way they are, not shaded down to a nondescript median according to a camera meter's preference.

So when that's the way you feel about a picture, you merely use the OM-4's Highlight Button. Take one or two spot readings of the brightest part of the picture to give it a basis to work on, press the Highlight Button, and the computer will ensure whites that go right to the film's limits for brilliance, while taking care to avoid washing the film out.

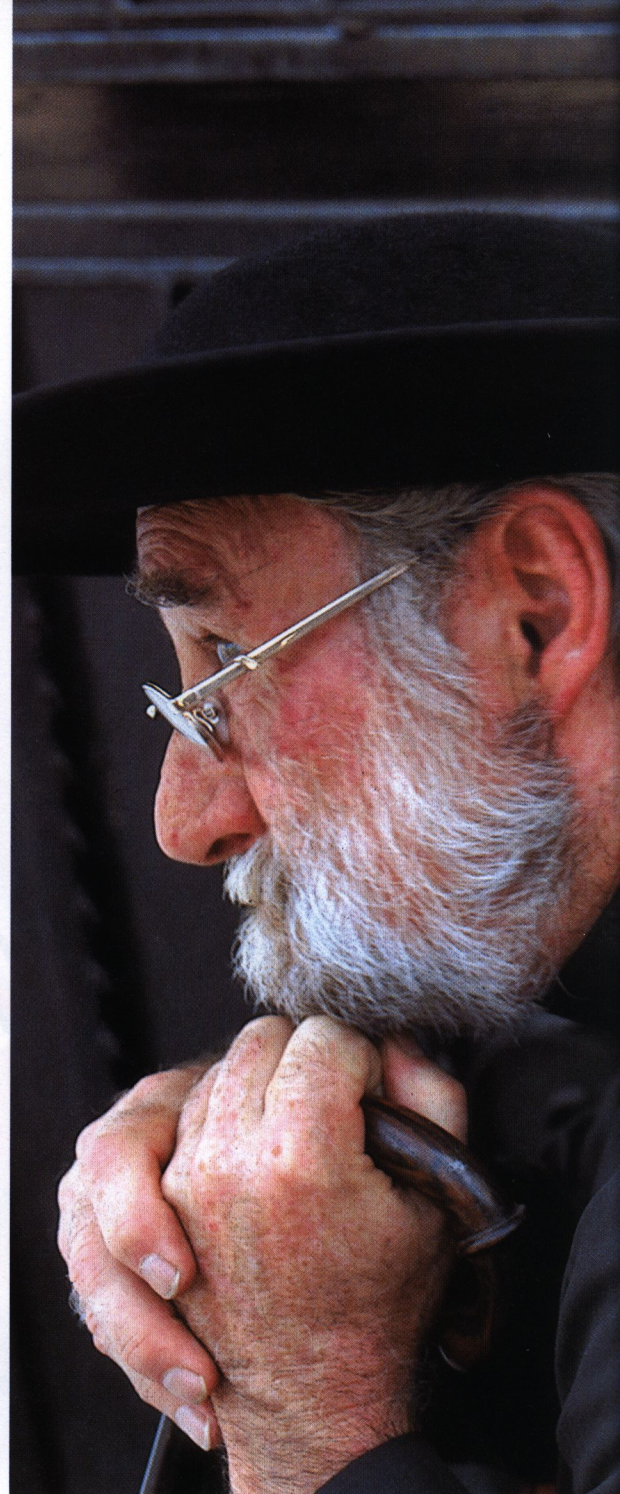
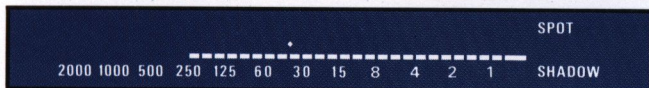


ZUIKO ZOOM 35-70mm F3.6

Shadow control. Vibrant dark tones.



Averaged Exposure



Another situation that can be very frustrating is when you want to take a picture full of mystery and atmosphere, only to find the camera has flooded those shady corners with unwanted light. The OM-4 provides a way to avoid that. It works the opposite way to the Highlight Control. First you take a spot reading (or two if you prefer) of the darkest tone in the composition, then press the Shadow Button on the Multi Spot panel.

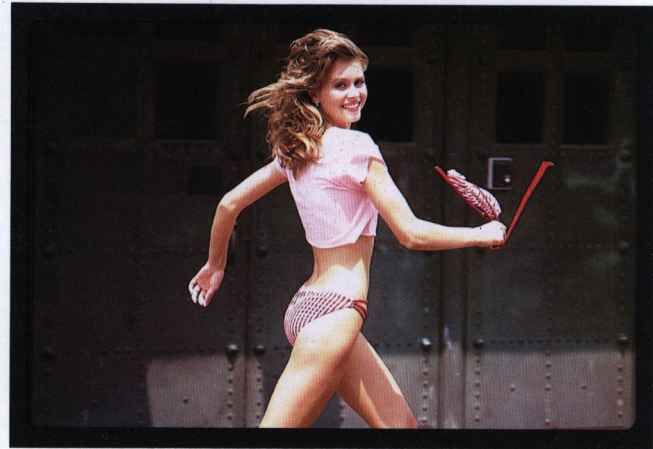
This time the computer keeps the image as dark as possible without blacking things out. The rich, dark tones that make all the difference to the feeling of the photo are preserved beautifully intact. With push-button ease by the one camera that shoots camera automation into a new age of conscious creativity.



ZUIKO 35mm F2



Without Memory



Without Memory

A memory to
*give you perfect
 freedom in composition.*



Even when the lighting on your central subject remains the same, the exposure reading will vary greatly depending on changes in the background, etc. So with a regular automatic camera, against a black background the subject will be automatically overexposed, against a white background, underexposed.

When you want to take a whole series of shots of the subject at the perfect exposure for the main element of the composition, just push the Memory Lever. It will keep the same exposure level faithfully, just as you worked it out with the Spot or TTL "off-the-film" Direct Light Measuring system. The Memory function can be cancelled at any time by turning the Memory Lever to "Clear." Otherwise, the memory is retained for about an hour — ample time to shoot an exciting series of original pictures.

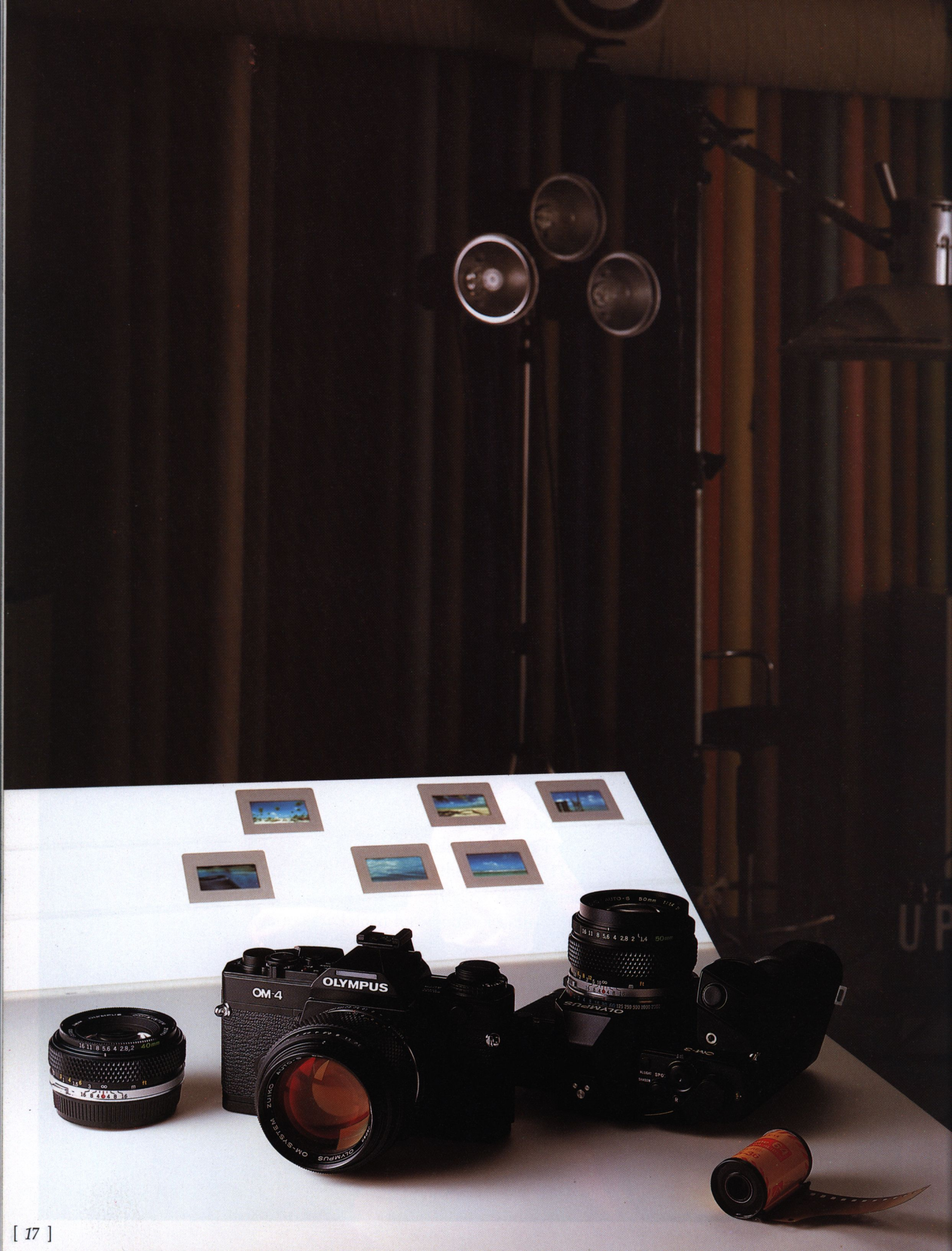



With Memory

ZUIKO 100mm F2



With Memory



A man and a woman are standing in a bright, modern studio, looking at a document together. The woman is on the left, wearing a light-colored blouse and dark pants. The man is on the right, wearing a light-colored shirt and pants. They are both looking at a document held by the man. The background is a bright, open space with large windows and a curved ceiling.

The OM-3 and OM-4 make an astounding difference for the professional — and Multi Spot Metering is only half the story. Thoroughgoing perfectionism is the keynote of these top-of-the-line SLRs. It shows in their beautiful feel and impeccable performance, and in their unrivalled versatility, speed and ease of operation.

Many of their outstanding features are OM exclusives. For example, the OM-4 incorporates the same TTL Direct method of real time off-the-film light measuring that made the OM-2 a sensation. And the same fantastic TTL Auto Flash capability for total control over how you light — and shoot — the composition.

Then there's the OM System itself. Twenty-one new units introduced together with the OM-4 help make the world's most comprehensive 35mm photographic system still more extensive and exciting.

Of course, like every OM camera the OM-3 and OM-4 are designed for compatibility with virtually every OM System unit ever made. All the units you now own can be used freely — up to and including the highly professional series of fourteen different focusing screens, which are quickly and easily changed through the lens mount.

Most important of all, the OM-3 and OM-4 are built to last, and work with faultless reliability in the toughest conditions. They boast diecast metal construction to withstand plenty of rough use, a rugged, smoothly balanced mechanism to take continuous motor drive at speeds up to five frames per second, and even special shower resistant sealings.

Whether you're interested in fashion, adventure, scientific record making or anything in between, the OM-3 and OM-4 offer you a new command of photography.

A *revolution*
in the studio—and out.

Pioneering the high road of professional camera development.

As the OM System itself brilliantly demonstrates, OLYMPUS has never hesitated when the road ahead calls for fresh thinking and radically new approaches. The only thing that never changes is the goal: to make photography ever more inspiring and rewarding.

Having very successfully dealt with the major problems of portability, versatility and light measuring accuracy with the OM-1 and OM-2, OLYMPUS turned with its new top-of-the-line cameras to the final conundrum — how to combine automatic efficiency and individual freedom of choice. This is the brilliant — and absolutely unique — achievement of the OM-4.

The Immense Significance of Exposure Settings

When you have boiled down all the many different elements that go into making a photograph, you are left with just a few. One of them is composition. Another is timing. And a third is precise determination of the exposure value. The many photos in this catalog show clearly how vitally

the exposure affects the mood and quality of the image. Yet up until now there have only been two choices in auto exposure systems: do what the camera tells you, or go out and do it alone.

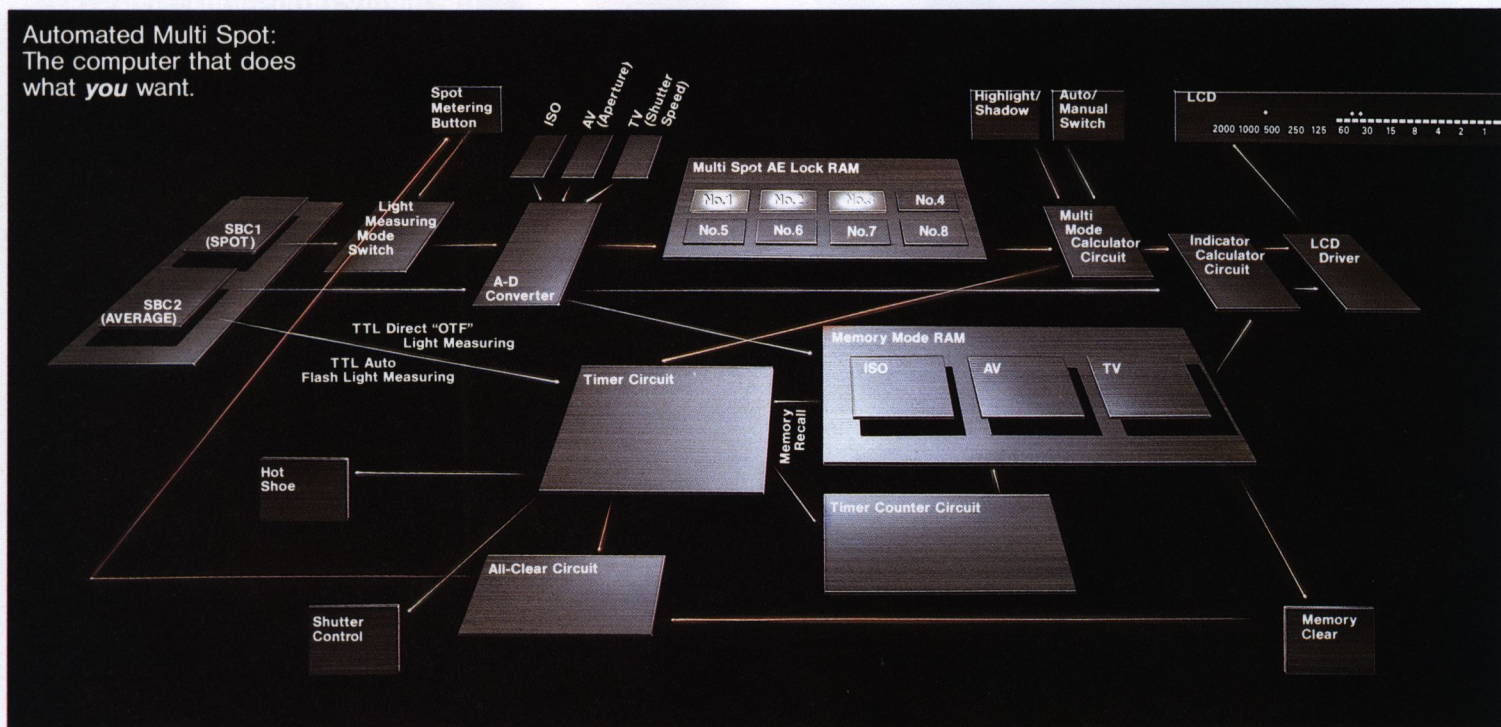
Of course, the exposure information provided by the camera has been getting more and more sophisticated. One of the biggest advances was made by the TTL Direct "off-the-film" Light Measuring system introduced by the OM-2. And other cameras have used an ingenious variety of methods to try to make the auto exposure value as close to the ideal as possible in as many circumstances as possible.

We have progressed from simple averaging of the overall light value for the composition, to systems that give extra weight to the central picture area — presumably the most important part of the subject — to spot measuring systems, and even to computerized guessing at the best exposure mix for different subject patterns.

But so far all of them beg the point — instead of providing the photographer with a tool to complement his own creativity, they attempt to automate his creativity away.

For the professional photographer and the dedicated amateur who want precise results, that kind of unintelligent computerization is not enough. That is why up to now these photographers have made use of independent spot meters or incident light meters, plus a generous helping of experience and intuition. And that is why OLYMPUS knew there was a need for the OM-4.

Multi Spot Metering is simply a way of replacing a substantial investment in troublesome, time-consuming independent light meters, with a still more versatile and accurate system that works automatically and instantaneously within the camera itself.



Multi Spot Metering very simply lets the photographer decide exactly what part of the subject he wants to stress, and how he wants to treat the composition as a whole. In other words, it marks an epoch-making transition from automation that takes away the photographer's creative options — to an automation that reaffirms and expands them.

For any photographer who wants real creative control over his picture in every circumstance, the only choice is between the OM-4, or lots of extraneous metering equipment, time, intuition and luck.

Real Time Average Light Measuring Directly Off the Film Plane.

Naturally not every picture requires spot or multi-spot meter readings. Perhaps in the majority of cases an averaged reading is just as effective and even quicker to obtain. For this reason, in addition to its Multi Spot capability, the OM-4 features the same center-weighted average light measuring system that

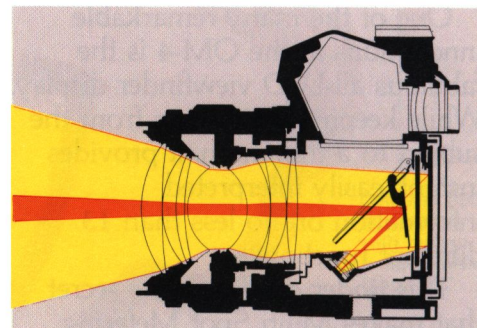
put the OM-2 years in advance of other professional SLRs.

TTL Direct "OTF" Light Measuring, has the unique advantage of working in real time — AFTER the mirror is raised, DURING the actual exposure.

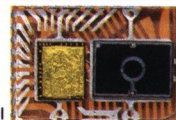
The result? Everything is perfectly exposed, from individual frames in five-frame-per-second motor drive sequences, to super-long automatic exposures in nearly total darkness. And because the light in flash photography is measured as it builds up, directly on the film, the same fabulous TTL Auto gives enormous freedom in arranging lighting with up to nine connected flash units used in any way the creative concept calls for. Not least, because TTL Direct "OTF" Light Measuring works in real time, it can take in its stride changes that occur during the exposure. When you want to shoot changing lighting situations such as lightning, or fireworks, that's an enormous advantage.

The Secret of Spot Metering

The OM-4 has an ingenious mechanism that allows it, by use of a



Spot metering and center-weighted average metering light paths.



Complex SBC photo cell

double mirror system, to switch instantly between center-weighted average metering of the whole picture area, and spot meter reading of the central area (approximately within the bounds of the micropism on the standard focusing screen, or just over 2% of the total picture). A complex photo cell in the base of the camera pointing back toward the film plane undertakes three different functions as required. For the center-weighted average meter readings shown in the viewfinder, it reads the total area of the composition reflected from the subsidiary mirror behind the half mirror central section of the main mirror. In TTL Direct "OTF" Light Measuring mode, this automatically switches to reading directly off the film plane when the mirror is raised. And for spot metering, an electronic command changes the area covered to the central part of the picture only.

The angle of the spot being read changes automatically with the focal length of the lens. So for fine adjustment, a zoom lens can be used to read only the area desired with extreme precision.

In the studio or other situations where artificial lighting can be organized, the spot meter function is also invaluable in determining the ideal light balance for the composition.

The Heart of the OM-4

A CMOS 4-bit microcomputer is utilized to assure ultra-high speed, high-precision processing of extremely large volumes of complex information. This super modern 4-bit computer features state-of-the-art function with a 4096-byte capacity ROM, 128 × 4-bit capacity RAM, serial interface and timer/event counter all integrated on a single chip. The OM-4's exposure control system utilizes the huge potential of this CPU to remarkably high efficiency levels.

Extra Fast, Accurate Output of a Wide Range of Information

Unnecessary complication of signal output channels is avoided by linking the CPU with the LCD Driver with only three signal cables. Large volumes of data can thus be transmitted directly and in real time. The Liquid Crystal Display is operated on 1/3 bias, 1/3 duty cycle, for excellent data display precision.

An Eye Capable of Selecting Light

The OM-4's light sensor is a combined-type SBC (Silicon Blue Cell); the SBC 1 serving for spot meter readings and the SBC 2 for TTL Direct "off-the-film" center weighted average readings. Normal meter and viewfinder indicator function is provided by the SBC 2, but the SBC 1 goes into action the instant the spot metering button is activated. This

outstanding versatility assures total mastery over every light situation.

Memory Function to Record Photo Exposure Level

The Memory Lever control is used to initiate memory operation in the OM-4. Depression of the shutter release causes the exposure level of the photograph to be input to the Memory RAM. Since an EV-linked system is adopted, the aperture or shutter speed can be changed freely without affecting the memorized value for the exposure level.

The AE Lock Recalls Light Value Until Shutter Release

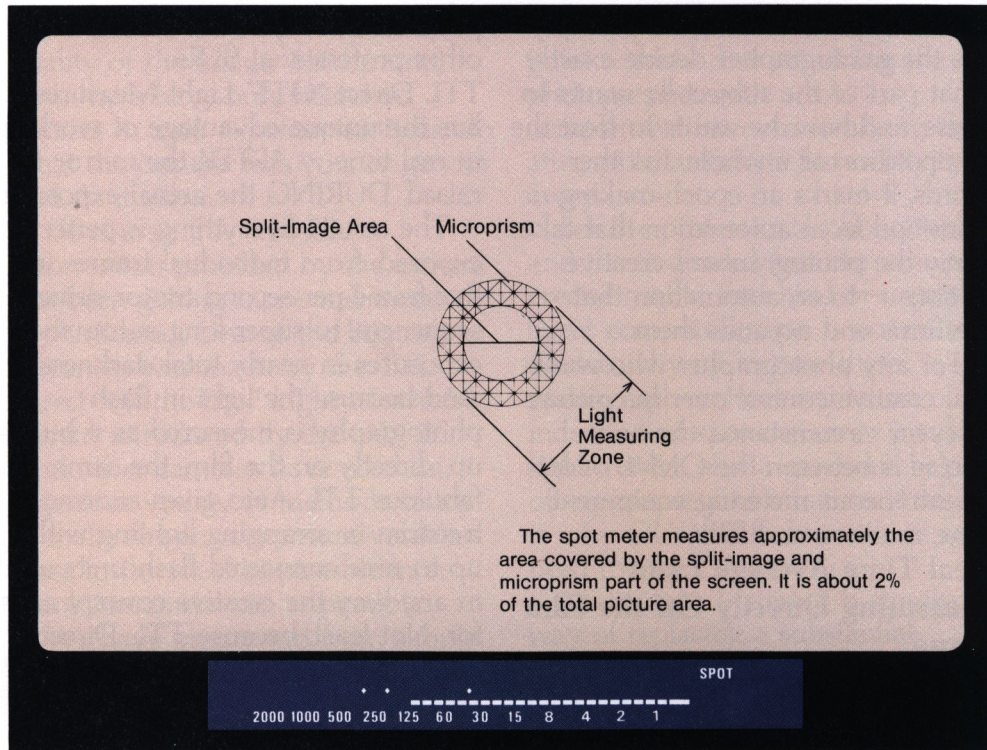
The memory design of the OM-4's CPU incorporates eight AE Lock RAMs, assuring a huge leap in creative capacity. Spot metering values can be memorized one after the other. This original OLYMPUS processing system provides a powerful incentive to the photographer's imagination, reinforcing it with precise exposure data. The CPU realizes byte unit data transmission, providing five different sub-routine stack functions that utilize RAM capacity to the limits, achieving signal improvements in software efficiency and processing speed.

A brilliantly new, all-LCD finder.

One of the many remarkable innovations in the OM-4 is the fabulous all-LCD viewfinder display. While keeping distraction from the subject to a minimum, it provides instant, easily interpreted information on no less than 13 different functions.

This finder display is the secret that makes Multi Spot Metering manageable. Each spot reading is shown clearly along the screen the minute it is taken. Additionally, the computer-evaluated overall exposure for the total number of spot readings (up to the last eight) appears instantly below the spot readings.

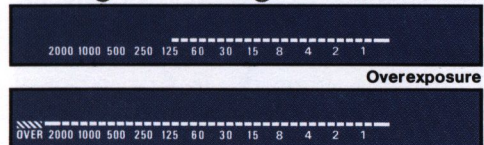
Functions are described in more detail below.



Auto Exposure

TTL Direct Center Weighted Average Metering

Normal Function



Now the finder display functions as a regular Auto information finder. The "OVER" warning cautions against overexposure as in Spot Metering mode.

Spot Metering ONE SPOT



MULTI SPOT



Each of the spot values is indicated by a dot on the display. The camera's high-power computer continually updates the ideal exposure value as new information is fed in.

HIGHLIGHT CONTROL



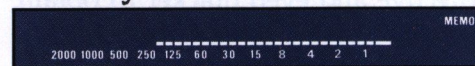
The words "HIGHLIGHT" appear on the display, and the indicated exposure is automatically recalculated to assure the dazzling whites you need for the composition.

SHADOW CONTROL



Exposure is modified in the opposite direction to prevent interesting shadow areas from getting washed out. "SHADOW" shows up in the finder to remind you.

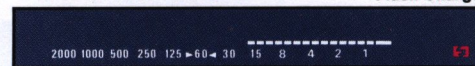
Memory



This function memorizes the exposure value for the desired subject. The correct exposure is made automatically even when the aperture is changed, either during TTL Direct "OTF," or spot metering.

TTL Auto Flash

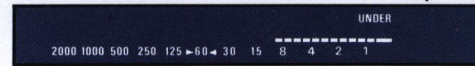
Flash Charge



Overexposure

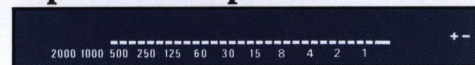


Underexposure



Like the other OM cameras, both flash charge and correct flash exposure are shown in the finder. An extra refinement is that both under- and overexposures are indicated.

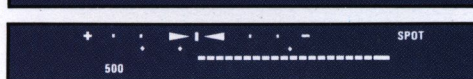
Exposure Compensation



Can be set during any mode: TTL Direct "OTF", TTL Auto Flash and Spot Metering.

Manual Exposure

Center-Weighted Average/Spot Metering



In the Manual mode, the correct averaged exposure reading is indicated along the base of the finder, and the camera shutter speed setting is shown in relation to it. Spot metering information is indicated as with Auto exposures.

Inspiration and integrity in every detail.

In some ways the OM-4 is stunningly revolutionary. In other ways, it's scrupulously evolutionary. It takes full advantage of the latest research and development to further upgrade standards of performance, reliability and durability in every way.

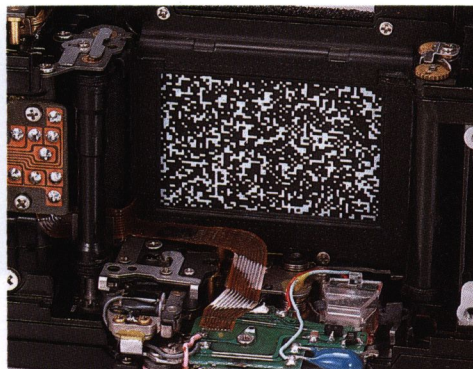
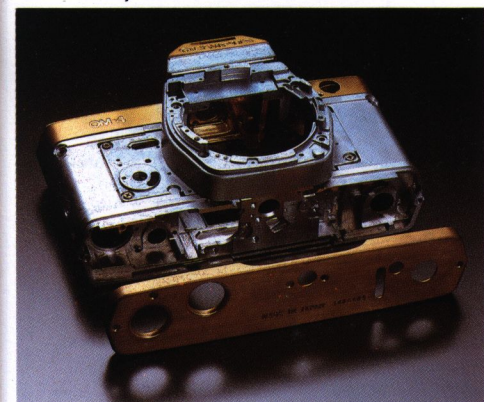
Rationalization, Not Miniaturization

All the OM cameras adopt a sensible approach to the problem of fitting extra performance in a manageable package. Compromising on any aspect of functionality reduces the value of the camera as a whole — be it compactness, lightness, durability, convenience, or, of course, specifications. So the answer is not to cut down on the size of controls or the strength and quality of materials.

Instead the OM-4 cuts down on waste and unnecessary duplication of parts, with a layout that's more rational, simpler and smoother-working right from the start.

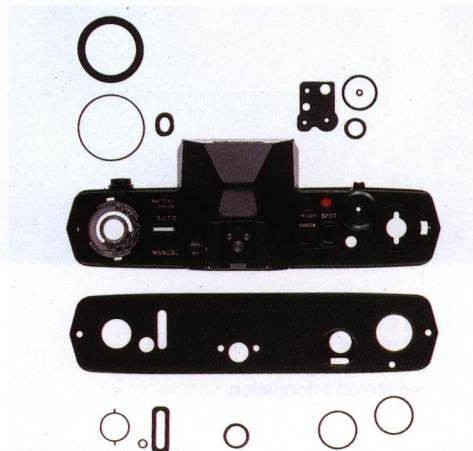
Tough, Diecast Metal Construction

At the heart of the OM-4 is a rugged structure that keeps the delicate mechanism safe from bumps and knocks. This diecast metal skeleton is good for years of demanding use, in temperatures from tropical to arctic.



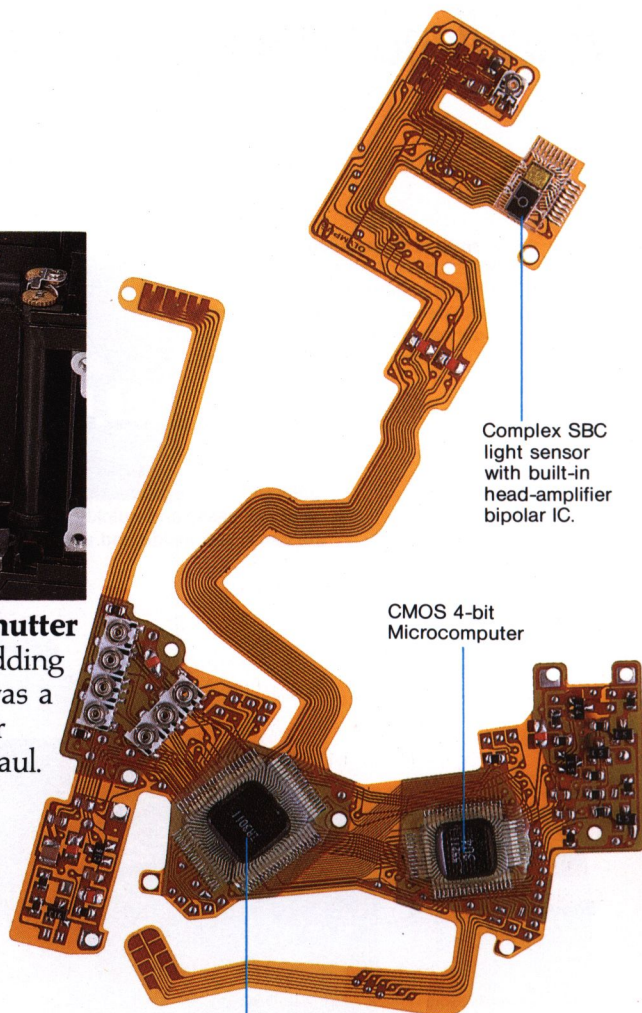
Completely Redesigned Shutter

For the OM-4 designers, adding a 1/2,000 sec. shutter speed was a fine excuse to give the shutter mechanism a complete overhaul. The extensively redesigned shutter of the OM-4 features some 50 improvements over the original design, and affords outstanding accuracy at all shutter speeds, even in extreme cold.



Shower Resistant Sealings

The reason the OM-4 is just a fraction larger than the OM-2 has nothing to do with the Multi Spot Metering function, or with the many other refinements incorporated in this new model. With astonishing ingenuity, OLYMPUS engineers fitted all this in precisely the same space. The extra millimeter is taken up by a layer of shower resistant sealings that makes the OM-4 considerably more resistant to inclement weather.

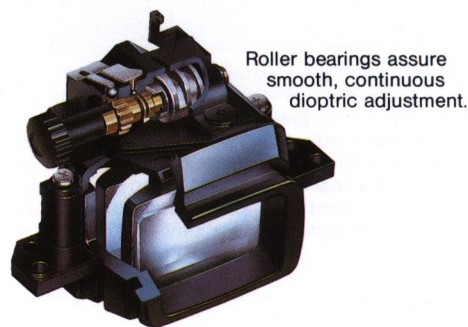


Complex SBC light sensor with built-in head-amplifier bipolar IC.

CMOS 4-bit Microcomputer

Bipolar VLSI

CMOS LCD Driver



Roller bearings assure smooth, continuous dioptric adjustment.

Excellence, down to the smallest detail.

Viewfinder Light Window

A distinctive design feature of the new OM, this window assures maximum brightness for clear vision of the finder display.



TTL Auto Synchro Socket

The OM-4 provides for huge versatility in flash photography. This socket has five pins, for a complete range of functions with T Series flash units used off the camera.

Tough, Large Diameter Stainless Steel Lens Mount

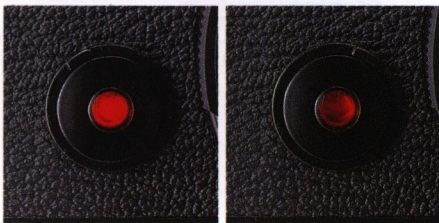
The OM System provides a choice of 14 different focusing screens. They can be changed easily and quickly by releasing the catch just inside and above the lens mount.

Shoulder Strap Eyelet



All Clear Button

When the lens is removed, this button springs out to clear all registered information.



Self-Timer/Electronic Signal Muffling Lever

Sophisticated new appearance and function. This electronic 12-second self-timer provides audio-visual indications, with a change in the beep tone to remind you the countdown has reached the final two seconds. When the self-timer lever is turned the opposite way, it silences the audio Spot Metering and Battery Check signals.



Lens Release Button

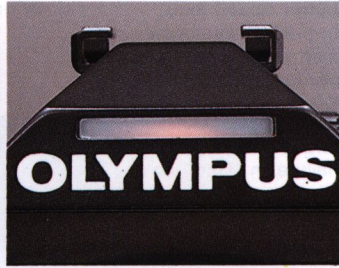
Depress and turn the lens 70° counterclockwise to remove. Turn the lens clockwise to attach, and make sure the release button clicks out to the locked position. OM System Zuiko lenses feature a fully automatic diaphragm.

Rubberized Non-Slip Focusing Grip

Aperture Ring

Heavy-Duty Paintwork

Typical of the research and improved technology that goes into every aspect of the OM series, the OM-4 features tougher body painting than any of the cameras that preceded it. Just so they can stand up with distinction to the buffets and scrapes of punishing assignments.



Viewfinder Illumination Button

In dim light when it is hard to see the viewfinder information clearly, press this button. The finder display will light up for about ten seconds, then switch off automatically.



"B" Lock Button

Manual shutter speeds can be set from 1/2,000 sec. to 1 sec., and "B". As a precaution against accidental setting of the "B" or the mechanical shutter 1/60 sec. position, this lock button must be released first.



PC Synchro Socket

For any electronic flash unit with a connecting cord. Note that OM System T Series flash units use the special five-pin flash socket.



Camera Grip 1/Grip Socket

A specially designed grip is optionally available for those who find this makes the camera easier and more comfortable to handle. It screws securely into this socket.



Preview Button

Press this to close down the lens diaphragm to the taking aperture. The depth-of-field and focus will show exactly as they will appear in the picture.



Rewind Knob/Rewind Crank/Camera Back Release



Manual Shutter Speed Ring

Located on the lens mount for fast operation with the left hand. Manual speeds can be set freely from 1/2,000 sec. to 1 sec. and "B." A 1/60 sec. mechanical shutter speed is also provided for use in the event of battery failure. In "Auto" mode, the computer overrides manual shutter speed settings.



Memory Indicator Lamp

The camera won't forget the memory setting, but you might. So just to remind you there's a bright LED that stays on as long as 60 minutes.



Large, Soft-Action Shutter Release

The finest OM shutter release yet, with an extremely smooth, satisfying release action that cuts shake to a minimum.

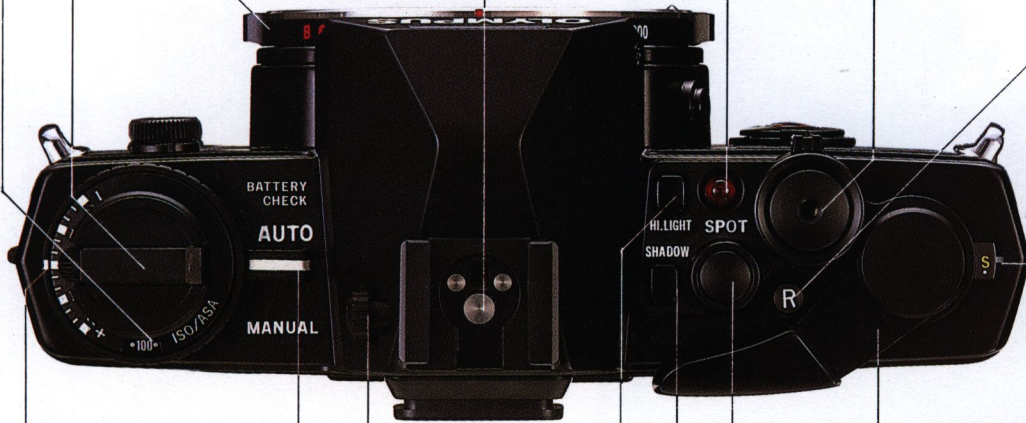
Exposure Memory/All Clear Lever

Push the lever one way and you set the selected exposure in the camera memory — for as long as you want. Push the lever in the opposite direction to clear the memory, and all Multi Spot Metering functions.

Film Speed Dial
Lifts up and twists to set any film speed from 6 — 3,200 ISO/ASA.

Hot Shoe

With special connections for OM System T Series electronic flash units, provides TTL Auto Flash and viewfinder indications of full flash charge, as well as over- or underexposures.



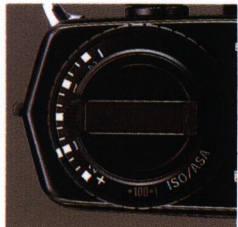
Rewind Release Button

Easy to get at — even when the camera is mounted on a tripod, etc. — but hard to press by accident, this button releases the film for manual or motor driven rewinding.

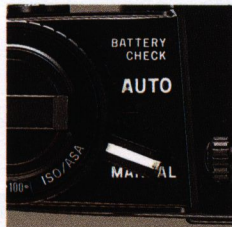
Exposure Counter

Film Advance Lever

Sensitively designed for effortless action, with a pre-advance angle of 30°. The 130° film advance angle can be covered in one long or several short strokes.



Exposure Compensation Dial
For manual compensations in 1/3-stop increments up to ± 2 stops.



Mode Selector Lever

Switches the camera between Manual and TTL Direct Auto modes, and also provides an audio-visual battery check position. Multi Spot exposure readings can be made with the camera in either Auto or Manual modes.



Dioptic Adjustment Knob with Lock

Allows continuous correction for long- or short-sightedness between +1 and -3 diopters, allowing most photographers to get a clear view of the subject, and the finder information, without glasses. The knob can be locked in position at any desired correction.



SPOT Metering Button

Just a touch of this button, and you have automatically taken your first spot reading — as well as setting the camera for Multi Spot mode. You can keep pushing it as many times as you like until you are absolutely satisfied you have the exact exposure selection you want. Each time a new spot appears on the finder display, and the last eight spots are automatically calculated for the final exposure value. Audio indications can be switched on or off.

SHADOW Button

With this button, exposures are reduced as much as needed to give the dark tones of the picture all their richness, while avoiding featureless blackness. Aim the spot meter at the dark areas of the composition to assure the right setting.

HI. LIGHT Button

The same, but in reverse. This button assures maximum possible exposure without burning out the film — for brilliant highlights and atmospherically pastel tones. Aim the spot meter at the brightest spots of the composition.

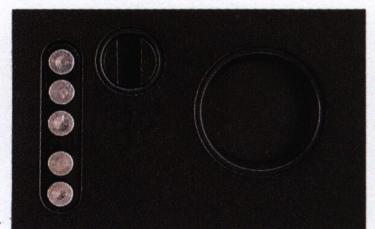


Battery Chamber
Contains two SR44 silver or LR44 alkaline batteries.



Motor Drive Socket
For mechanical connection of the Motor Drive 2 or Winder 2 unit. The cap is the same size as that of the battery chamber.

Motor Coupling Terminals
With these contacts, the motor drive or winder unit functions as an integral part of the camera, under the control of the camera's central computer.

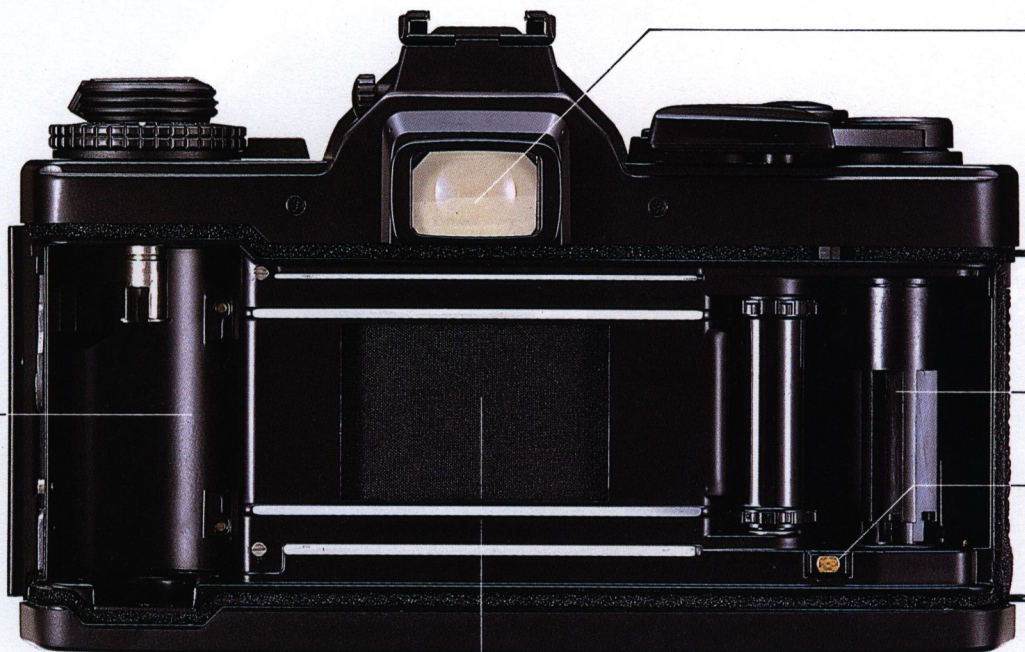


Clutch to Open Motor Rewind Coupling Contact
When the Motor Drive 2 is attached, this clutch is engaged to uncover the socket for the film rewind mechanism.



Motor Drive Guide Pin Hole

Tripod Socket



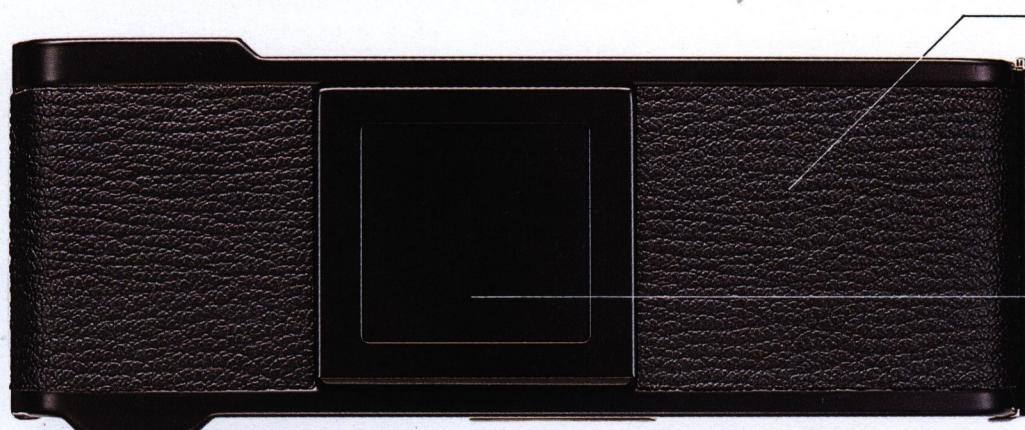
Finder Eyepiece
Large and designed for relatively easy access even for wearers of glasses. The mounting is grooved for attachment of the Varimagni Finder, etc.

Film Take-Up Spool

Cordless Contacts for Recordata Back
Allows the Recordata Back 4 or other data backs to be connected and synchronized directly to the camera without cords.

Cassette Compartment

Shutter Curtain



Rear Cover
Can be interchanged with the Recordata Back 4 or with other data or bulk film backs. This is made easy by a convenient hinge release.

Memo Holder
Useful for keeping the owner's name and address, details on the film being used or other information.

Interchangeable Screens



Interchangeable focusing screens are one big test of just how serious a camera is. With a system that embraces everything from astrophotography to microscope photography, and adds the option

of endoscopy, shift lenses and more, clearly just one screen is nowhere near enough.

The OM-4 can use no less than 14. And with the kind of thoughtfulness you'd expect from

OLYMPUS, they are fast and easy to change, without having to remove the pentaprism. Simply flick open the catch inside the lens mount, and the screen can be removed and replaced in seconds.

1-1 Microprism/Matte (for most lenses)
Fast, accurate focusing on the central microprism spot and on the surrounding matte area for general photography. In sharp focus, jagged pattern of microspot disappears. Not recommended for lenses slower than F5.6.

1-2 Microprism/Matte (for standard and telephoto lenses)
The matte area is ground comparatively rough for easier focusing with lenses slower than about F8, when the central microprism becomes too dark to focus.

1-3 Split-Image/Matte (for most lenses)
Provides highly accurate split-image focusing in general photography. Especially good for subjects with vertical lines. Split-image darkens with lenses of F5.6 or slower.

1-4 All Matte (for most lenses)
Excellent for those who prefer to focus on matte area, without distractions from microprisms or split-images. Matte surface is ground rough for easy focusing, even with super telephotography and macrophotography.

1-5 Microprism/Clear Field (for wide angle and standard lenses)
Gives an exceptionally bright finder image for fine wide angle snapshots, etc. Depth of field is not shown.

1-6 Microprism/Clear Field (for standard and telephoto lenses)
Extremely bright finder image, with focusing on the microprism spot. No depth-of-field effects can be seen.

1-7 Microprism/Clear Field (for super telephoto lenses)
Extremely bright finder image. Ideal for super telephoto lenses as central microprism spot stays bright even at apertures as slow as F11. No depth of field.

1-8 All Matte (for telephoto and astronomical lenses)
Extremely fine matte surface for outstanding field definition with lenses of 300mm focal length or more. Excellent for bright images of astronomical bodies. Varimagni Finder gives still sharper definition.

1-9 Clear Field (for endoscopic photograph)
Especially designed for use with OLYMPUS fiberscopes. Use of OM Endoscope Adapter means no focusing is required. Screen is a transparent condenser type with a 23mm diameter convex central surface. Auto exposure is made by Olympus light supply linked to the fiberscope.

1-10 Checker/Matte (for shift lens)
Outstanding to assure vertical and horizontal picture alignment for architecture and composite panorama shots with OM Zuiko shift lenses.

1-11 Cross Hairs Matte (for close-up and macrophotography)
Particularly good for close-up and macro subjects. In high magnification macrophotography with bellows, etc., use the double cross hairs.

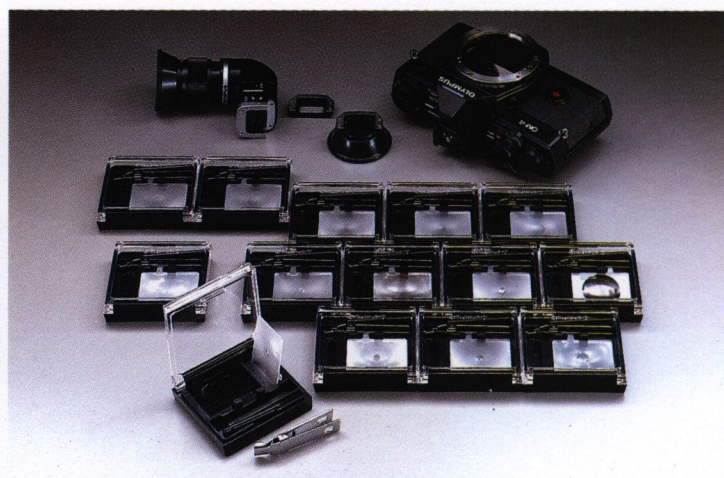
1-12 Cross Hairs Clear Field (for photomicrography and high magnification macrophotography)
Transparent screen assures an unusually bright finder image. Before focusing, first correct the OM-4 viewfinder for your own eyesight, so you can see each line of the double cross hairs clearly and sharply.

1-13 Microprism/Split-Image/Matte (for most lenses)
Superb focusing for normal photography, with a three-way choice of focusing area. With lenses of F5.6 or slower, the central area darkens and matte section must be used to focus.

1-14 Microprism/Split-Image/Matte (for most lenses)
Very similar to 1-13, except that the split-image in the center of the screen is aligned diagonally to make focusing easy with either vertical or horizontal subjects.

Varimagni Finder

The more sensible OLYMPUS answer to the problem of removable pentaprisms. Interchangeable pentaprisms are troublesome, costly, and invite scratches and dust. The Varimagni Finder provides two-stage switching to show a 1.2x magnified image of the whole screen or a 2.5x magnified image of the central section. In addition it can be rotated 360° for low level shots, microscope work, etc. In effect, it does the work of interchangeable pentaprisms, with far less bother and at far less expense.



FINDER GROUP



The OM System was the first to introduce a general purpose motor drive unit capable of speeds up to five frames per second without mirror lock-up. And the OM motor drive was so light and compact, it

was really the first to open this new frontier in photography to amateurs as well as dedicated professionals.

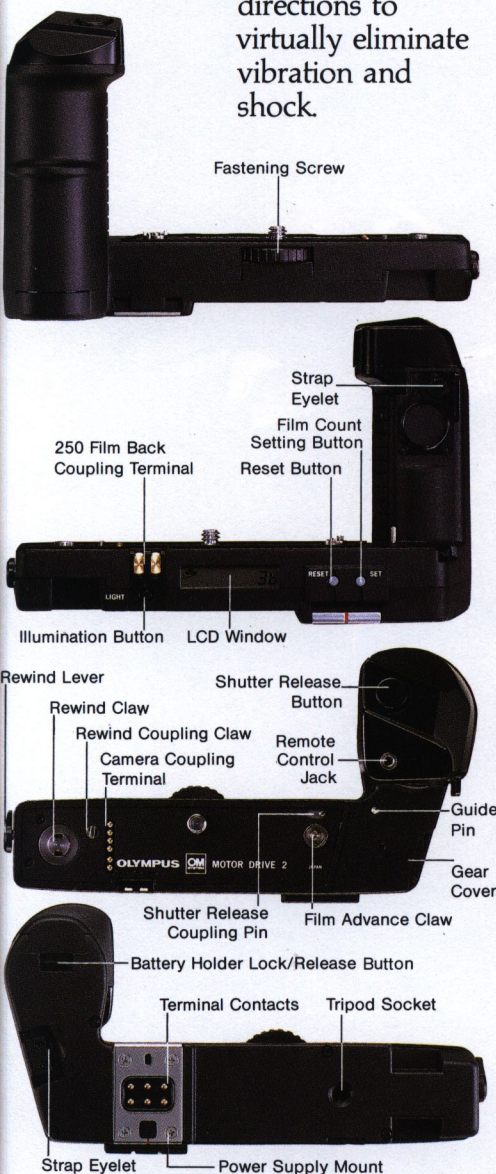
The new Motor Drive 2 maintains the OM commitment to performance, compatibility,

compactness and practicality. In addition it features a bundle of unique new functions, plus smooth, quiet operation you'll have to experience to believe.

Motor Drive 2

First, it still has sparkling five-frames-per-second performance, with regular mirror return, so you can follow the subject clearly in the viewfinder.

Next, the drive mechanism is incredibly smooth, thanks to twin motors turning in opposite directions to virtually eliminate vibration and shock.



Third, the Motor Drive 2 is the first in the world with a built-in computer. A graphic LCD display lets you know exactly what's happening at all times, and tells you what to do next. For instance, the motor drive display gives you step-by-step indications for loading film into the camera, and automatically winds it two frames to bring the counter to the start position. When the counter reaches "0", the film advance is automatically disengaged, and the LCD gives indications for rewinding the film.

The fourth big improvement is motor driven film rewind with the OM-4.

There are many further features to the Motor Drive 2, including instant readiness for the next shot, free use of any automatic or manual shutter speed, and shower resistant sealings.

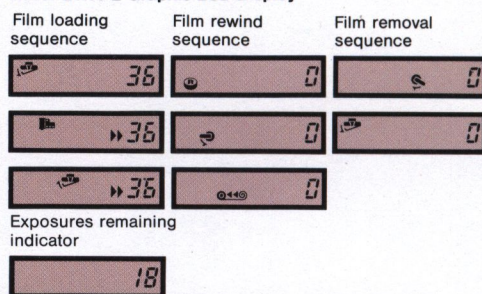
But probably the most important is full compatibility with the endlessly versatile OM System. For power units, the Motor Drive 2 combines with the M. 18V Control Grip 1, M. 15V Ni-Cd Control Pack 1, or M. AC Control Box. It can be used together with the 250 Film Back 1. And it works beautifully with the new M. Quartz Remote Controller 1.



M. Quartz Remote Controller 1

This is another little gem: a remote control unit that provides audio-visual confirmation of the shot, plus an LCD electronic frame counter. You can change the shooting mode between single frame and sequential exposures, and set intervals from 0.5 sec. to 24 hours on the built-in intervalometer. With the optional Program Timer TM2, the interval can be extended to a whole week. Naturally, the remote controller can also be used with the 2.5-frame-per-second Winder 2.

Motor Drive 2 Graphic LCD Display



MOTOR DRIVE GROUP

Professional Flash



The same philosophy of practicality and functionality that makes the OM cameras unique has led to the development of the most remarkable flash system of any SLR. The OM System Flash Group

provides a wide range of modular units that can be combined in endless variety for precisely the effects you desire. Now, together with the OM-4, Olympus announces a superbly original flash unit, the

T45 (Guide Number 45, ISO/ASA 100, meters), which puts professional flash photography on a completely new level.

Electronic Flash T45

The Electronic Flash T45 looks about the same size as other professional flash units, and provides about the same rated output. From that point on, it's immensely superior in every respect. Actual size, to begin with. Because the T45 is actually far smaller than comparable units. The T45 is the only flash in its class to do away with those bulky, heavy shoulder packs. A breakthrough in engineering has fitted the batteries inside the grip of the flash itself!

Does performance suffer? On the contrary, the T45 will deliver some 100 full flashes per charge of its T45 Ni-Cd Pack 1.



T45 Ni-Cd Charger 1: to charge T45 Ni-Cd Pack 1 from AC current.

That's approximately twice the number of current professional flash units. And it features a recycling time

of just 0.2 — 2.2 seconds — about twice as fast as other units.

Multiply weight reduction by recycling speed by number of flashes, and the T45 comes out way ahead of the competition.

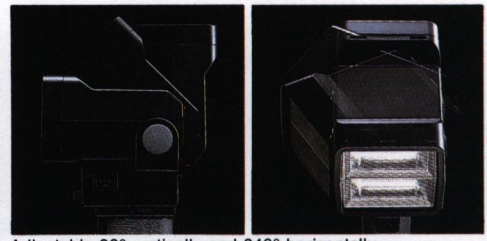
And with the TTL Auto Flash capability of the OM-4 or OM-2, the T45 can be used at any aperture available on the taking lens. TTL Auto also means there's absolutely no need for flash settings — everything is controlled by the camera's centralized computer system. It's so versatile, as many as nine linked flash units can be used in unison, with perfect automatic exposures guaranteed. So subtle that

the exposure measurement is extremely accurate as it automatically covers the same area as the composition, because it's taken through the lens.

The T45 can be used with any camera with a synchro socket, making it a hard proposition for any pro to resist.

Other General Purpose Flash Units

For remarkable performance and versatility, the OM System also offers the T32 and T20 electronic flash units. Their TTL Auto Flash capability with the OM-4 or OM-2 makes them much more powerful than the guide numbers suggest.



Adjustable 90° vertically and 340° horizontally



The Electronic Flash T45 can be mounted on either the right or left side of the camera.

Normal Auto range (ISO/ASA100). F4, F5.6, F8. Manual range GN 45, 32, 22, 16, 11, 8. (ISO/ASA 100 in meters). GN 146, 104, 72, 52, 36, 26. (ISO/ASA100 in feet).

Turn the page for another interesting insight into the OM System's unique mastery of flash.



TTL "OTF" Auto Mode



Back panel reverses to show data for Normal Auto Mode and Manual Mode



Almost infinite resources.

Starting from its traditional background in microscopy, OLYMPUS has emphasized the OM System's macrophoto performance right from the start.

Where many photo systems reach the limits of their range, the OM System is just getting started.

In fact, the units provided in this group are designed to offer total

control over scientific macrophotography, as well as unique portability for "action macro" work.

Five Special Macro Lenses

The OM System offers no less than five special lenses for macrophotography. And now every one of them is fully automatic. The entirely redesigned 20mm F2 and 38mm F2.8 macro lenses can be attached directly to the Auto Bellows or the Telescopic Auto Tube 65-116, and used to make pictures up to 12 times life size — almost as easily as regular snapshots. Both these lenses feature 6-elements in 4-groups construction, with multicoating, for excellent results in scientific and medical work as well as artistic photography.



Zuiko Macro 20mm F2



Zuiko Macro 38mm F2.8

manyfold with the introduction of three new units. The T8 Ring Flash 2, which provides a diffused flash emission for extremely soft, shadowless lighting, and offers a choice of large or small reflectors. The T28 Macro Single Flash 1, a high power flash for macrophoto-



OM-4 + T Power Control 1 + Auto Tube + Macro 135mm F4.5 + T28 Macro Single Flash 1

OM-4 + T Power Control 1 + Auto Tube + Macro 135mm F4.5 + T28 Macro Twin Flash 1.



the T Power Control 1 unit, assuring the same easy portability and effortless system compatibility. With the OM-4 or OM-2, each unit can be used in TTL Auto Flash mode.

Many More Macro Units

The OM System takes you as far as the imagination can follow in macrophotography. It features special stages, mounts, stands, mirrors, filters, and even a complete set of macrophoto units. The OM-4 gives you the additional choice of creative exposure decisions in photocopying, and every other aspect of a world that's now within reach.

Macro Flash Units

Another area of macrophotography where the OM System is unrivalled is flash.

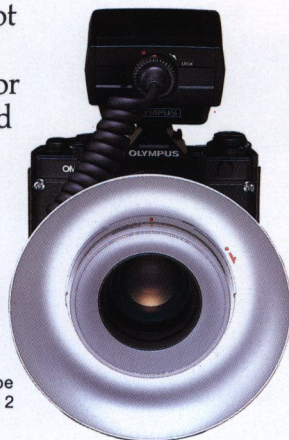
The T10 Ring Flash 1 features built-in illuminator lamps for focusing and composition. The flash is powered by the T Power Control 1 unit which slips into the camera hot shoe. This makes a completely portable and very practical setup for every kind of medical, scientific and nature macrophotography.

The original idea is enriched

graphy at minimum apertures and with maximum depth of field. And the T28 Macro Twin Flash 1, a pair of units mounted on the lens at any desired angle, and capable of being fired separately or simultaneously. Each of these three units is linked to



OM-4 + T Power Control 1 + Auto Tube + Macro 135mm F4.5 + T8 Ring Flash 2



MACROPHOTO GROUP

Zuiko Interchangeable Lenses



Every lens is a little miracle that records the history of our lives upon the fabric of time. With every new lens, the OM System becomes more complete, and closer to the goal of bringing everything within our grasp.

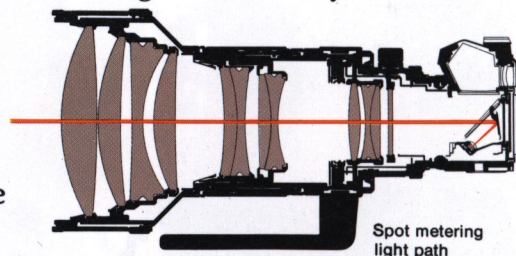
There are now some fifty lenses in the OM System. Without exception, they attain the very highest standards of optical and mechanical excellence. They make

the OM System uniquely responsive. And they add yet more to the OM photographer's vision and accomplishment.

The Lens Angle Alters the Spot Meter Angle, Too.

The spot meter of the OM-4 reads through the lens, covering roughly the area enclosed by the microprism of the standard focusing screen. Naturally, when the lens angle changes, the angle read

by the Multi Spot meter also changes. You can take advantage of this when you use a zoom or telephoto lens to get precise coverage of the area you want.



Shift 24mm F3.5

The first super wide angle shift lens ever, covering up to a maximum view angle of 100°. This design masterpiece features inner focusing, built-in filters, and the use of extra low dispersion glass to optimize optical performance.



100mm F2

A fine example of what the OM System stands for. Superbly bright, yet light, compact and outstandingly practical in a wide variety of situations.



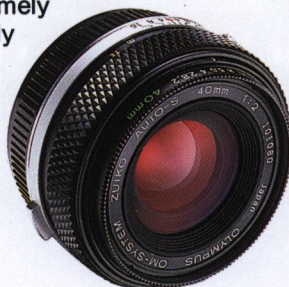
Reflex 500mm F8

Well into the super telephoto range, in a compact format that takes all the trouble out of carrying, this reflex lens can create exciting compositions.



40mm F2

A tiny gem that press photographers especially will love, in the technically tricky but extremely practical, slightly wide angle 40mm focal length. This lens focuses all the way down to 30cm (11.8").



250mm F2

A tour de force of computerized design. This ultra-bright lens is the fastest in its focal length. It also offers superb resolution, close focusing, slip-in type rear filters, and a pioneering inner focusing mechanism.



Teleconverter 1.4X-A

Highly sophisticated lens design, intended especially for the 250mm F2 and 350mm F2.8 lenses, giving them respectively 350mm F2.8 and 500mm F4 potential.



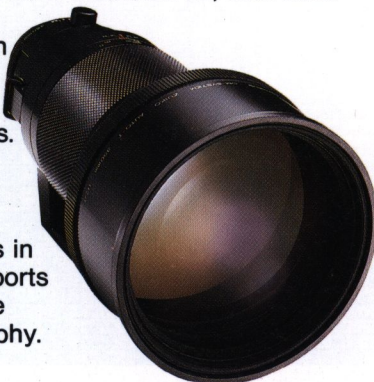
65-200mm F4

No bigger than a fixed focus 200mm lens, but with a three times zoom capability from near standard to tight telephoto. Close focusing assures maximum versatility, while the push-pull zoom makes composition amazingly fast.



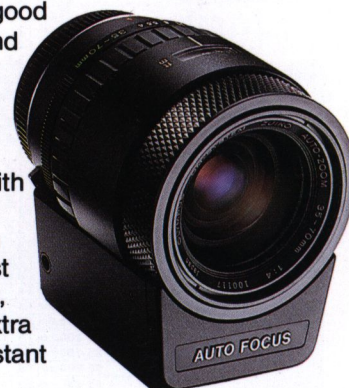
350mm F2.8

Built to the same extraordinary standards as the 250mm F2, with extra low dispersion glass for pinpoint sharpness. This lens opens up vast new prospects in nature, sports and stage photography.



35-70mm F4 Autofocus Zoom

Adopting the extremely advanced "Zero-In" Autofocus system, this lens is amazingly fast and accurate. It's especially good with the kind of pictures that stump most autofocus systems: with moving subjects, in low contrast or dim light, and with extra close or distant subjects.





Full data capability.



The OM System is so resourceful, it extends photography into the infinite, with astroscope, endoscope and microscope adaptors. And makes it vastly more convenient

with the Recordata series of data backs, which have steadily improved in versatility and above all, ease of use.

The introduction of ever-more

sophisticated quartz mechanisms has set off a revolution in automatic data recording, and the OM System continues to be in the vanguard.

Recordata Back 4

As totally professional camera, the OM-4 naturally has the capability of recording a generous selection of data directly onto the photograph. With the quartz date recording function of the Recordata Back 4, sentimental memories can be catalogued for instant recall years later. More significant to the professional, vital dates or other data can be recorded on the photograph, greatly increasing its documentary value — or its scientific importance. A code system is available to greatly simplify classification and retrieval of pictorial records.



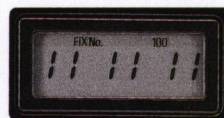
Date: day, month, year
(European usage)



Hour, minute, (second) The hour and minute can be recorded directly on the film with the Recordata Back 4. The second can also be optionally recorded. However, in some cases the second will appear blurred, as a result of it changing during the exposure.



Frame Counter. Up to six digits can be selected freely to form a desired code for the frame counter. This will advance one digit with each frame, establishing a sequence for the pictures taken.



Fixed Code. Alternatively, the Recordata Back 4 can be programmed to imprint a fixed code directly on the photograph. The code selected and preset will then appear on all the frames shot, until the Recordata Back is reset.



Date: year, month, day
(Japanese usage)



Date: month, day, year
(American usage)



Control Panel

Liquid Crystal Display Window

Record Switch



PHOTOTECHNICAL GROUP

The expanding universe of the OM System.

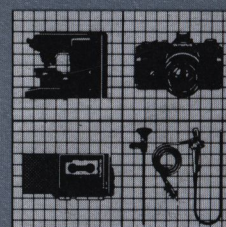




OM-4 *Main Specification*

Type	TTL auto-exposure 35mm SLR camera
Film format	24 mm × 36 mm
Lens mount	Olympus OM mount
Shutter	Electronically controlled focal plane shutter; 1/2000 sec. max. shutter speed; 1/60 sec. mechanical shutter speed
Synchronization	X contact (synchronization at speed of 1/60 sec. or slower); hot shoe with contacts for T Series flash; 5-pin connector for T Series flash; PC synchro socket
Light measuring method	Center-weighted average light measurement, switchable to spot measurement; measuring spot at the microprism area of the finder screen; spot metering selective in 3 modes; multi-spot measurement, highlight- and shadow-based methods
Automatic exposure control by average light measurement	TTL Direct "off-the-film" Light Measuring with aperture-preferred electronic shutter; exposure control range: about 1 min. ~ 1/2000 sec. Light measuring range: approx. -5 EV ~ 19 EV (at ISO/ASA 100, 50 mm F1.4, normal temperature and humidity); ±2 EV exposure compensation
Automatic exposure control by spot measurement	TTL spot metering memory system (AE lock); exposure control range: about 4 min. ~ 1/2000 sec. Light measuring range: approx. 0 EV ~ 19 EV (at ISO/ASA 100, 50 mm F1.4, normal temperature and humidity); ±2 EV exposure compensation
Automatic exposure memory control	Exposure value memory system (60 min. limiter)
Manual exposure control	B, 1 sec. ~ 1/2000 sec. (synchronization at speeds of 1/60 sec. or slower)
Film speed	ISO/ASA 6 ~ 3200
Film advance	Film advance lever with 130° angle for one long or several short strokes and pre-advance angle 30°; motor drive and winder usable
Film rewind	Rewind crank (motorized rewind with Motor Drive 2 possible)
Viewfinder	Viewfinder with dioptic correction; dioptic correction range: +1.0 ~ -3.0 diopters; interchangeable focusing screens; microprism/split image-matte type standardized; finder view-field: 97% of actual picture field; magnification: 0.84X at infinity with -0.5 diop. and 50 mm lens
Viewfinder information	LCD multi-mode display (2 min. limiter); built-in illuminator (10 sec. limiter)
Self-timer	12 sec. delay electronic self-timer
Battery check	3-level display with LED and alarm sound; automatic lock with batteries exhausted
Power source	Two silver-oxide batteries SR44 (Eveready EPX-76; alkaline manganese batteries LR44 or equivalent)
Camera back	Removable hinge type, with memo holder; interchangeable with Recordata Backs and 250 Film Back
Dimensions	136 × 84 × 50 mm (5.35" × 3.27" × 1.77") (body only)
Weight	540 g (19 oz.) (body only)

Specifications subject to change without notice.



*Photographic,
Medical,
Microscopic,
Industrial &
Business Equipment*

OLYMPUS

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C04E-1285D Printed in Japan