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MINOLTA

MAXXUM
7000

THE ADVANCED AUTOFOCUS SLR



MAXXUM 7000 602E-C2

9242-4115-62
Printed in Japan

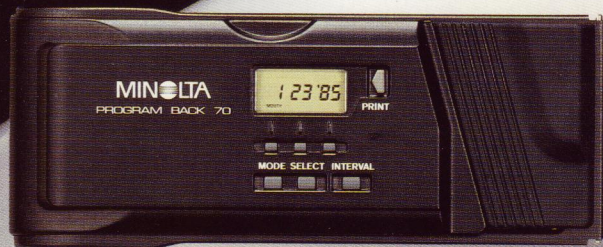
ONLY FROM THE MIND OF MINOLTA

The Minolta MAXXUM 7000.

Photography has never been
this easy or creative.



MAXXUM goes beyond any camera you have ever experienced. Autofocusing so fast... An exposure system so intelligent... And handling so easy it actually becomes a part of your senses. MAXXUM 7000. It's a camera with the unique capability of capturing life's split-second experiences—instantly, accurately, exactly the way you saw them. And this is just the beginning of the MAXXUM story. MAXXUM photography encompasses a growing line of new, computer-controlled autofocus lenses; flash units that simplify professional techniques; program backs that perform tasks never before offered; and accessories so versatile they will change the way you take pictures, forever. Step into the world of MAXXUM. Photography the way you always dreamed it could be.



MAXXUM Autofocus

Only the human eye focuses faster.

The images of your life. They appear in the blink of an eye. The beautiful, the dramatic, the humorous. Yet all too often, what we see in our mind's eye eludes the camera's. The elusive image, an accepted fact of life for every photographer. Until today. Until MAXXUM Autofocus.

MAXXUM is a dream come true: an SLR autofocus system so responsive, precise, and easy to use it actually brings you closer to your subject than ever before. Precise automatic focusing at the touch of a finger. Precision that you can see in the viewfinder. At speeds faster than even the most seasoned professional. Capture a captivating smile with astonishing ease. A subject as it moves, with incredible sharpness. Life as it happens all around you. For MAXXUM there is no elusive moment. Only photographs—just as you see them.



Autofocus and exposure information is clearly shown in the MAXXUM's full display viewfinder.



MAXXUM delivers autofocused results with astonishing ease—instantly, accurately.

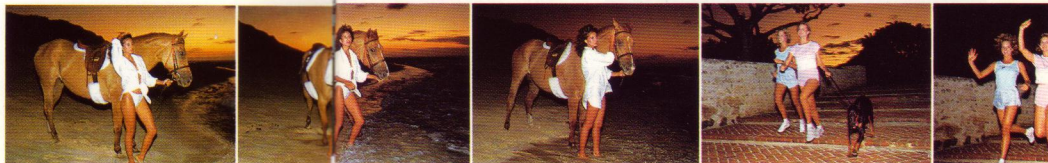
MAXXUM Autofocus Around The Clock

It lets you literally "see in the dark".

Autofocusing in total darkness. Impossible? Not for MAXXUM. The MAXXUM 7000 is the first SLR autofocus system to incorporate a focus assist. It's built into MAXXUM flashes, and automatically activates for light levels that require flash photography. Automatic focus at the touch of a button in lighting where manual focusing with conventional SLRs is difficult or impossible. That's the MAXXUM advantage. Now you can shoot sharp, correctly exposed autoflash pictures under virtually any lighting condition—dim indoor scenes or outdoors in the evening, by candlelight, moonlight—or no light at all. With MAXXUM there are no settings to make. Nothing to distract you from that instant you want to photograph. You concentrate wholly on the creative moment at hand, and the MAXXUM 7000 responds. Isn't this what photography should be all about?



While you capture the creative moment at hand, MAXXUM's viewfinder displays full information.

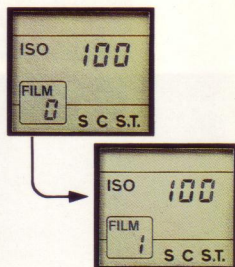
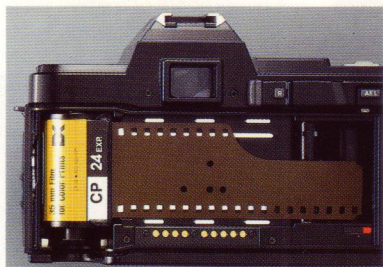


Even in low light or total darkness, MAXXUM autofocus makes the most of every moment.

MAXXUM

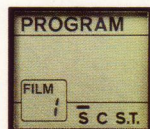
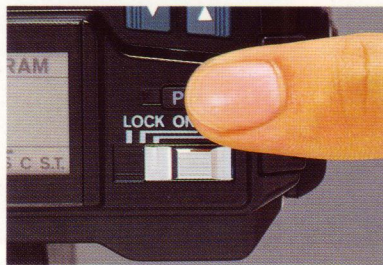
Extremely simple operation.

As sophisticated as MAXXUM is, its operation is extremely simple. In fact, after switching it on, you can expect beautiful results by learning just four basic steps.



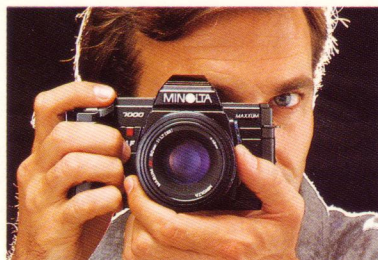
1 Automatic Film Loading

Open the back cover. Then place the film cartridge in the film chamber and extend the film end to the red leader index. Close the back cover. The film will automatically advance to the first frame and the number "1" will appear on the data display panel to confirm correct loading. With DX-coded films, the MAXXUM 7000 will automatically set and display the film speed in use.



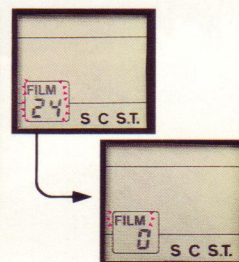
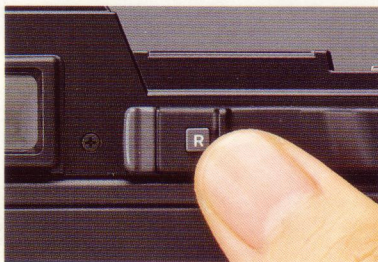
2 Instant Program Set

Simply press the program reset button, and MAXXUM automatically cancels any previous setting and exposure adjustment and resets itself to the Program mode and single-frame film advance.



3 Shooting

Center your subject in the focus frame and press the operating button halfway down. The MAXXUM AF lens will instantly focus and a green focus signal in the viewfinder will glow at the instant the subject comes into focus (accompanied by an audible beep, if desired). Pressing the operating button all the way down releases the shutter at the proper programmed settings. The MAXXUM 7000's focus-priority autofocus system releases the shutter only when the subject is in focus—assuring you of sharp pictures, one after another. After the exposure is made, the MAXXUM will automatically advance the film to the next frame.



4 Motorized Rewind

At the end of the roll, the film counter on the data display panel will blink (and the beeper will sound, if set). Start motorized film rewinding by pressing the rewind release button (marked "R") and sliding the rewind switch to the left. Rewinding will start immediately and the film counter will blink. When rewinding is complete, "0" will appear in the film counter, and the motor will automatically stop. Remove the film, reload and start again.

MAXXUM Automatic Multi-Program Selection

The world's first "intelligent" program camera.

MAXXUM Automatic Multi-Program Selection (AMPS). It's the result of over fifty-six years of Minolta photographic experience. Experience which showed us that true versatility is not how many functions a camera has but how completely they work for the photographer to get the picture he wants. MAXXUM gives you the widest selection of programs available. But unlike any

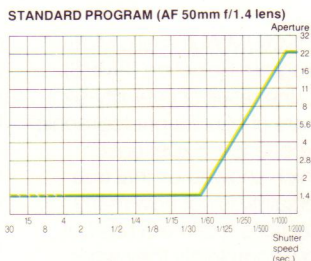
other camera, MAXXUM also automatically selects the correct program for any MAXXUM AF lens you use. And changing lenses has never been easier. There are no program decisions to make. No apertures to adjust. No shutter speeds to set. No break in your concentration. A sophisticated ROM integrated circuit in each MAXXUM AF lens supplies hundreds of data bits such as focal length, aperture range, focus setting, and even zoom position. From these the MAXXUM's microcomputer selects the exact program to take best advantage of the special characteristics of the lens in use. With MAXXUM AF zooms, the program automatically changes as you zoom to match the focal length actually set.



MAXXUM Standard Program

Optimum shutter-aperture combinations.

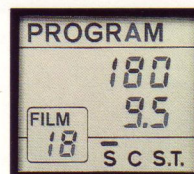
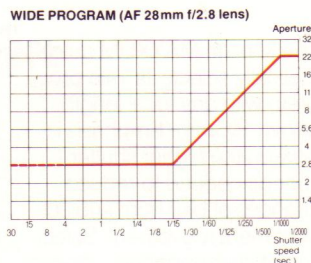
At focal lengths between 35mm and 105mm, the MAXXUM selects the Standard program automatically. Action-weighting assures you'll get the optimum combination of shutter-speed and aperture settings for blur-free photography—while MAXXUM metering adjusts exposure instantly in rapidly changing light conditions.



MAXXUM Wide Program

Smaller apertures for increased depth of field.

Use a focal length shorter than 35mm, and MAXXUM automatically selects its Wide program. This program puts the emphasis on aperture settings over shutter speeds. Weighting the program towards smaller apertures maximizes depth of field. The results speak for themselves. Breath-taking vistas that are razor sharp from foreground to background, portraits with almost three-dimensional depth, and indoor group shots where every face is sharp. You have the freedom to concentrate on the moment, the emotion, the feeling. MAXXUM captures it for you instantly, automatically, at the press of a button.

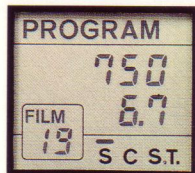
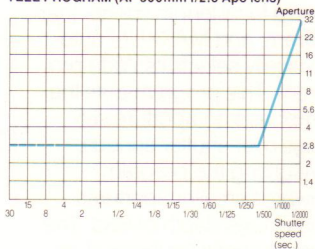


MAXXUM Tele Program

Reduces blur from camera or subject movement.

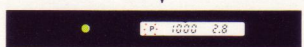
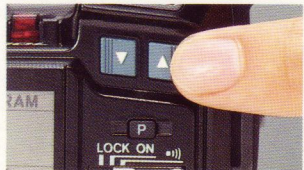
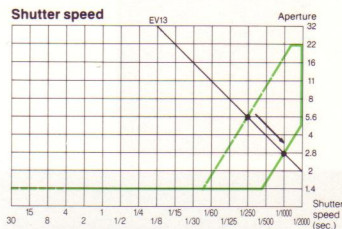
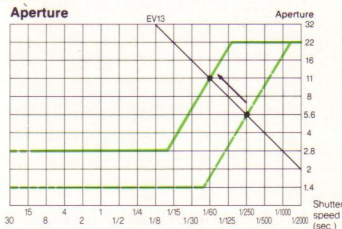
The Minolta MAXXUM automatically selects its Tele program with any focal length above 105mm. Emphasis is now on the higher shutter speeds needed to reduce chances of blur from subject or camera movement. Selection of larger apertures limits depth of field and sets off your subject from the background. The MAXXUM 7000 is the perfect choice for fast-paced tele photography. When every bit of concentration must be devoted to getting the picture, there's no time to worry about exposure or focus settings. These are the times for MAXXUM.

TELE PROGRAM (AF 300mm f/2.8 Apo lens)



Quick Program Shift

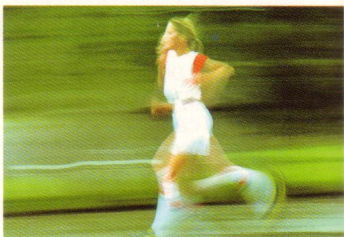
In MAXXUM photography, you are always in control. Sometimes capturing the image you "see" calls for more control of depth of field or a shutter speed that shows the action or stops it cold. The MAXXUM's exclusive Program Shift lets you manually select alternate programmed aperture and shutter speed combinations at the touch of a button, while maintaining proper exposure—automatically. Programs can be shifted in half-stop increments by simply pressing the aperture or shutter speed keys on the MAXXUM body. Program mode LCD's in both the data display panel and viewfinder will blink to indicate the program shift. The MAXXUM 7000 will hold the new program as long as your finger touches the operating button. This allows using it for as many shots as necessary to get just the right look. If the program shift is not used, it is automatically cancelled ten seconds after removing your finger from the operating button.



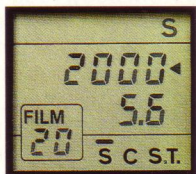
Shutter-Priority Automatic Exposure

Select speeds from 1/2000 sec. to 30 secs.

When your subject is in motion, shift MAXXUM into shutter-speed priority mode. By controlling the speed of the shutter, you can photograph subjects as never seen before. The MAXXUM 7000 offers shutter control from 30 seconds all the way to an action-freezing 1/2000 second. Touch-control keys simplify rapid setting. And the corresponding aperture for correct exposure is automatically selected for you. Combined with the advantages of MAXXUM's autofocus system, shutter-priority mode will let you freeze the fastest action solidly in time



A slow shutter speed and panning were used to create an illusion of speed in this moving subject.



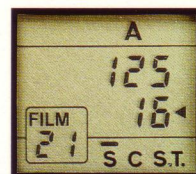
Aperture-Priority Automatic Exposure

Vary depth of field for greater impact.

Next to sharpness, depth of field has the greatest effect on how your photographs are interpreted. And MAXXUM's electronic aperture selection offers a new degree of depth-of-field control. At the press of a key you can soften the mood by using large lens openings to blur the background. Or use small openings to emphasize depth and realism. Dual control key stations allow precise aperture setting with either left or right hand. With each adjustment, MAXXUM's microprocessor selects the precise corresponding shutter speed for correct exposure.



A large aperture was used to soften the background.



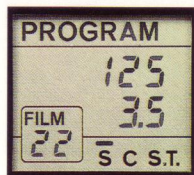
AE Lock

Proper exposure, even in difficult lighting.

The MAXXUM's AE lock is a quick solution for dealing with difficult lighting situations where automatic exposure may be incorrect. If the subject is darker than the background for example, simply move close enough to measure subject brightness and press the AE lock. Then move back, compose and shoot. And when the automatic exposure settings don't suit the subject or situation, simply press the shutter or aperture key to shift the program, or change shutter or aperture setting. That's the MAXXUM exposure system. Total creativity all the time.



Without AE lock



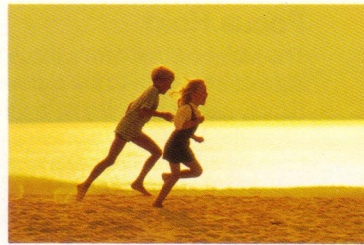
With AE Lock



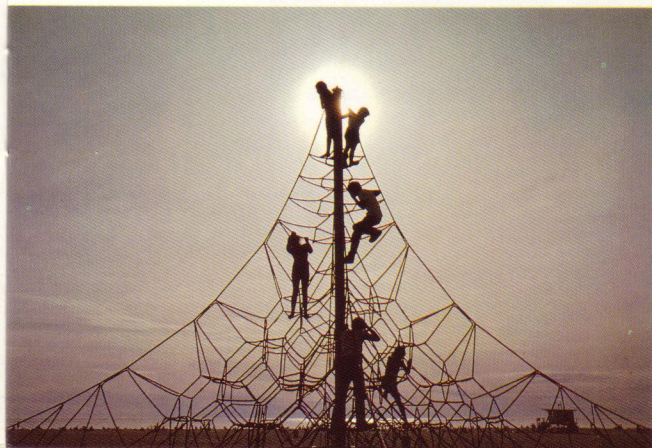
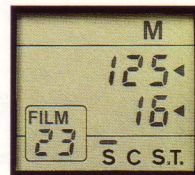
Metered-Manual Exposure

Complete control in any situation.

Switch MAXXUM to its Metered-manual mode, and you're in complete control. Shutter and aperture keys await your command. Create special effects by intentionally under- or over-exposing the subject or background. MAXXUM's ongoing metering can be monitored at any time in the LCD viewfinder for precise exposure adjustment.

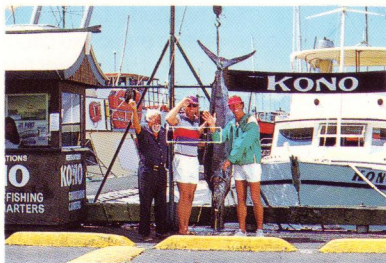


Intentional overexposure produced this memorable photograph.



Focus Hold

The Minolta MAXXUM's focus hold lets you position your subject anywhere in the picture, while retaining sharp focus. Simply center the subject in the viewfinder's focus frame. Then press the MAXXUM's operating button halfway to automatically set and lock lens focus. Now recompose with your subject anywhere in the frame and press the operating button all the way down to release the shutter. The result is creative composition with precise focus. MAXXUM focus hold: the perfect wedding of creative expression and automation.

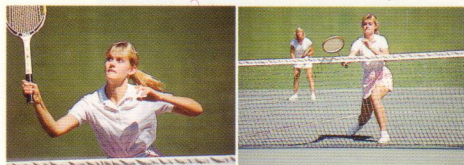


Motorized Film Control

Simplified film handling and camera operation.

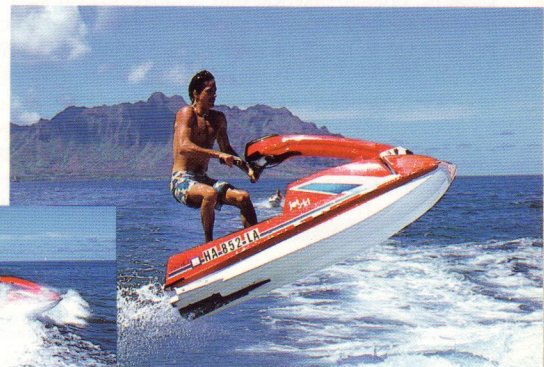
Single-Frame Shooting

MAXXUM is always ready for special moments. In single-frame drive mode, film is automatically advanced after each exposure, so you can concentrate capturing peak action.

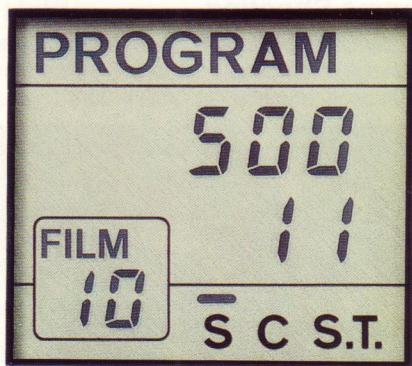


Action-Sequence Shooting

A major contribution to the MAXXUM's unique handling is its body-integral motor drive. In its continuous drive mode, you can take action-sequence shots at up to two frames per second by simply keeping the operating button fully depressed. And the MAXXUM's focus-priority autofocus system assures you'll get a sharp picture every time.



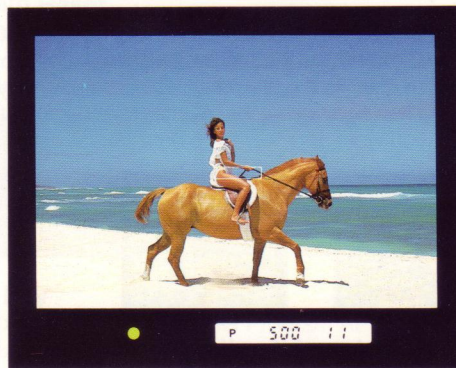
MAXXUM Touch Control Operation



MAXXUM's innovative touch control operation incorporates easy-to-use control keys for all camera functions. This assures positive, precise settings with virtually no chance of changing settings by mistake. Functions most often used such as program shift, aperture and shutter adjustment, and AE lock are placed right where you'd expect them, for instant camera response. The MAXXUM also uses "double-key" data entry for important exposure and drive functions to help prevent unintended changes or errors. Full data readouts constantly keep you informed of exposure conditions and settings you have made. The result is camera operation so natural it virtually becomes an automatic extension of your thoughts.

Full Display Viewfinder

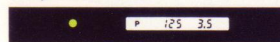
The MAXXUM's viewfinder displays all essential data readouts for precise exposure and focus control. There's no need glance away from the viewfinder as you shoot. Exposure mode, aperture, shutter speed, and exposure adjustment are clearly indicated on the LCD digital display located just below the MAXXUM's Acute-Matte focusing screen. Color-coded LEDs light to indicate focus and automatic flash operation with Minolta MAXXUM flash units. In low light, the LCD panel is automatically illuminated to keep you fully informed.



LED Focus Signals

Autofocus:

Subject is in focus



Subject too close to lens



Subject contrast too low

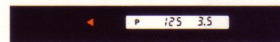


Manual focus:

Turn focusing ring to the right



Turn focusing ring to the left



Flash Signals

Flash ready



Sufficient exposure



Exposure Warnings

Overexposure Warnings:

P mode



S mode

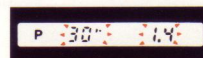


A mode



Underexposure Warnings:

P mode



S mode



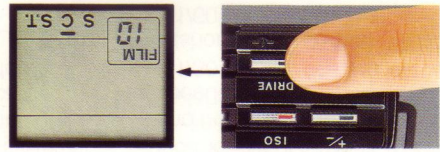
A mode



Out of Metering Range:

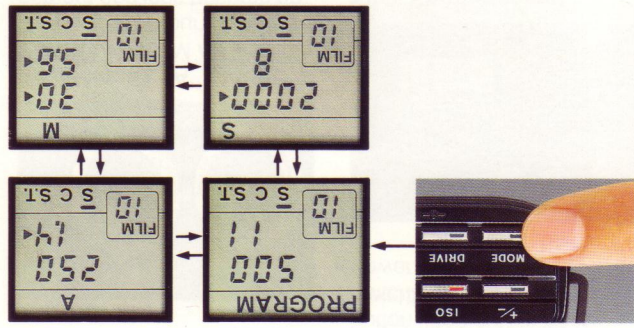
All modes





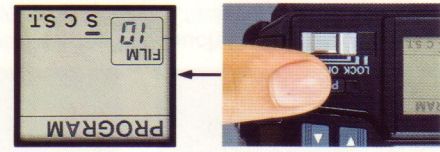
Choose between single-frame (S) or continuous (C) advance, or self-timer by depressing the DRIVE key and pressing either shutter speed key. When required, self-timer operation can be cancelled by pressing the DRIVE key.

Drive Key



Used to set MAXXUM for either Program AE, Aperture-priority AE, Shutter-priority AE, or Manual exposure control. Simply depress the MODE key and press either shutter speed key until the mode you want appears in the data display panel.

Mode Key



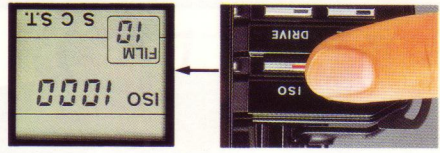
Pressing the program reset button automatically returns MAXXUM to the Program mode and single-frame film advance and cancels any exposure adjustment.

Program Reset



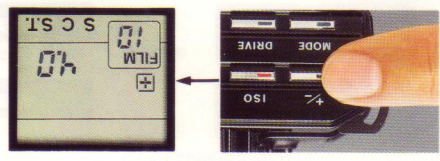
ISO Key

This lets you set any film speed between ISO 25 and 6400 into MAXXUM's IC memory. It also allows adjusting "DX" auto settings to your specific requirements. To operate, simply hold down the ISO key and push either shutter speed key until the ISO number you want appears in the data display panel.



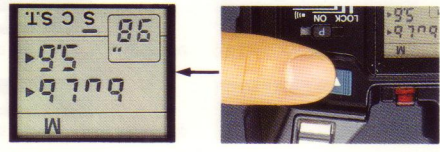
Exposure Adjustment Key "+/-"

Allows adjusting normal automatic exposure from four stops under to four stops over in half-stop increments by holding down the "+/-" key and pressing either shutter speed key.



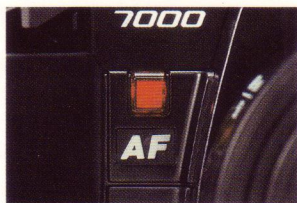
"Bulb"

For timed long exposures in Manual mode, "bulb" appears after 30 sec. shutter-speed setting. When used, the data display panel serves as a timer, counting up to 99 seconds.



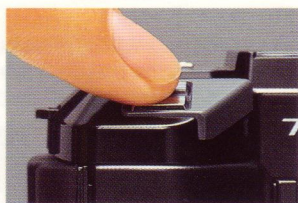
Other MAXXUM features

Special design "touches"
that are uniquely Minolta.



Self-timer

Provides a ten-second delay marked by a three-stage, blinking LED accompanied by an audible warning. Self-timer operation may be cancelled at any time by pressing the drive mode key.



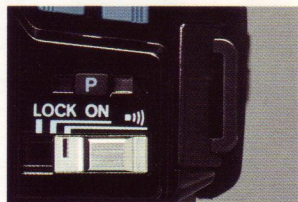
Touch Switch

LCD displays in the data panel and viewfinder come on as soon as finger contact is made on the camera's operating button. Displays stay on for ten seconds after removing your finger from the button, then automatically switch off to conserve battery power.



New Minolta "A" mount

Lock a MAXXUM AF lens into the new "A" mount, and the camera and lens become an integrated unit for benefits available on the MAXXUM 7000. Through this unique interlock flows information vital to MAXXUM's autofocus and exposure systems. Further, the body-integral AF motor is automatically coupled the lens' focus mechanism.



Slow Shutter-speed Warning

An audible warning alerts you if the shutter speed is too slow for hand-held pictures. This warning varies with the focal length of the lens in use and takes place at the speeds below:

- 1/30 sec. (shorter than 35mm)
- 1/60 sec. (between 35mm and 105mm)
- 1/125 sec. (longer than 105mm)



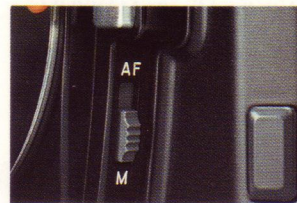
Handgrip

Comfortable handgrips on front and rear of the MAXXUM 7000 are integrated into the camera's body to provide one-handed ease of handling and operation. The handgrip also houses the main power supply: four AAA-size 1.5v alkaline-manganese batteries that power all camera functions.



Memory Backup

Thanks to a ten-year-lifespan lithium battery built into the camera body, the frame count and ISO setting will remain memorized even when the camera's main battery power becomes completely exhausted.

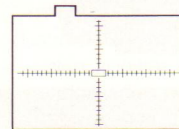


Focus Mode Switch

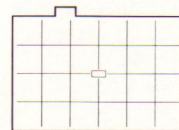
This convenient switch, located slightly below and to the left of the lens mount, allows you to switch between autofocus and manual focusing modes.

User-changeable Focusing Screens

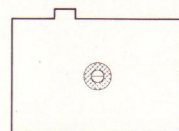
User's can replace the MAXXUM's standard screen with any of three optional Acute-Matte screens.



Type S:
for macro-, micro-, and astrophotography



Type L:
for general and architectural photography



Type PM:
for general photography with manual focusing

The MAXXUM Flash 2800AF and 4000AF

Exciting flash capabilities with simplicity, speed and precision.

With the Minolta MAXXUM and dedicated Minolta MAXXUM Flash you can get autofocused flash photographs in extremely low light conditions where focusing a conventional SLR would be difficult or impossible.

MAXXUM is able to accomplish this feat thanks to an LED focus assist lamp built into the 2800AF flash unit. When required, this special lamp automatically activates to illuminate subjects up to 16 feet away* for the MAXXUM's autofocus system.

The MAXXUM Flash 2800AF has a maximum guide number of 92 in feet (28 in meters) at ISO 100, and provides a wider range of flash capabilities with more precision and less complication than ever before. In Program mode there is no need for exposure settings, calculations, or compensations. Flash duration is precisely controlled by Minolta's Direct Autoflash Metering System to provide optimum exposure. As soon as the flash is charged, a flash-ready signal appears in MAXXUM's viewfinder and on the back of the

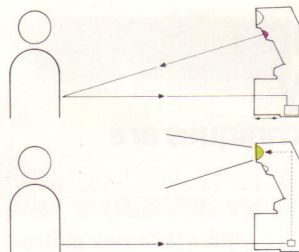
flash unit. Proper exposure is also confirmed in the viewfinder and on the flash when flash operation is within the operating range of the 2800AF. Without attachments flash coverage is provided for MAXXUM AF lenses down to 35mm, and down to 28mm with the wide adapter supplied.

Automatic Charge Control.

To improve battery life, both MAXXUM flashes have a special automatic charge control circuit that automatically switches off power fifteen minutes after the flash unit reaches a full charge. Charging will automatically resume the moment your finger touches the operating button.



*Based on Minolta's standard test method with 50mm lens.

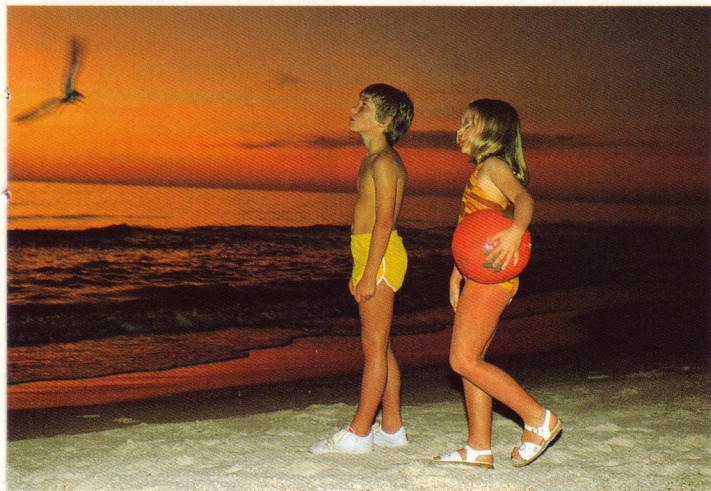


AF illuminator is triggered, and MAXXUM autofocus responds.

Shutter is released, and Direct Autoflash Metering controls exposure.

The Minolta MAXXUM Flash 4000AF Greater power and motorized flash coverage.

The MAXXUM Flash 4000AF is the perfect unit for the serious MAXXUM photographer. Its built-in power zoom head automatically adjusts flash coverage for 28mm through short-telephoto MAXXUM AF lenses and also tilts and swivels for bounce-flash operation. Six settings control flash power up to guide number 131 in feet (40 in meters) at ISO 100. An LCD data panel on the back of the unit keeps you well informed of all operating conditions. The 4000AF is controlled by the MAXXUM's exposure system, so read-outs automatically change as the camera or lens controls are operated to keep you informed during operation.



MAXXUM Flash Photography

Professional flash techniques are
at your fingertips.

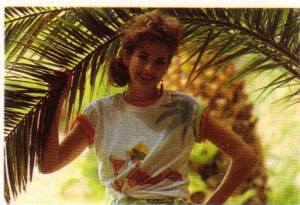


Automatic Fill Flash A special daylight flash program to prevent subject overexposure.

Minolta MAXXUM flash units use a special fill-flash program built right into the MAXXUM 7000's microprocessor circuitry to solve a common daytime flash exposure problem. In conventional fill-flash photography, flash brightness is added to normal ambient light, which often results in overexposed subjects. MAXXUM's new fill-flash program lightens shadows without washing out important highlight details. With bright subjects, when the MAXXUM 7000 is set to program mode, flash duration and aperture adjustment are automatically controlled to



With conventional fill flash



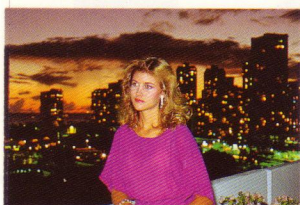
Without flash

provide optimum subject illumination. To control background exposure in brighter conditions (above EV 12), the shutter speed is automatically switched from 1/60 to 1/100 sec.



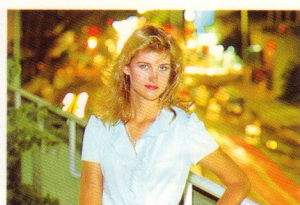
Creative versatility with the MAXXUM in Aperture- priority and Manual modes

With the MAXXUM set in Aperture-priority or Manual modes, you can select any available aperture for auto-flash operation. Choose maximum apertures to extend your flash range up to 52 feet with the 2800AF and up to 94 feet with the 4000AF (at f/1.4 with ISO 100 film). Or use smaller apertures for selective depth-of-field control. Thanks to Minolta Direct Autoflash Metering, flash duration is precisely controlled for any aperture you choose.



Slow-Shutter Sync

With MAXXUM's slow-shutter sync, you can capture the natural ambience of dawn or dusk while maintaining the proper exposure on your main subject. Simply press the AE lock while in aperture-priority mode and the MAXXUM 7000's flash sync. speed drops to that needed for normal ambient-light exposure. Then pressing the operating button releases the shutter, mixing flash with existing light for a refreshing new look at the world.



M-Mode Flash

Switching MAXXUM to Manual mode gives you the ultimate control over subject exposure. Autoflash exposures can be made at any aperture and any speed 1/100 sec. or below for beautiful fill-in, or use the flash as the main source for dramatic daylight shots. The MAXXUM Flash 4000AF also allows full-power manual flash at its maximum guide number.



Sequential Flash Exposure

When one flash picture isn't enough to tell the whole story, switch the 2800AF to its low setting or the 4000AF to its motor-drive setting and take sequential autoflash pictures. Flash photos up to two frames per second can be made by setting the MAXXUM's drive motor to continuous mode, switching off the autofocus and using the flash units at their low-power settings.



Control Grip CG-1000

Enhanced versatility and fast recycling make the Control Grip CG-1000 the perfect accessory for the serious flash photographer. It attaches cordlessly to MAXXUM flash units and the MAXXUM 7000 for the utmost in convenience. A special AF illuminator unit slides into the MAXXUM's hot shoe to enable autofocusing with off-camera flash. When two flash units are used, the Control Grip automatically controls both flashes for a two-to-one ratio, allowing you to attain professional portrait lighting effects with astounding ease! The extension cord included allows using the Control Grip at up to sixteen feet from the camera. Regardless of the way you use it, Minolta's Direct Autoflash Metering system assures accurate exposure time after time.



The Minolta Program Back 70

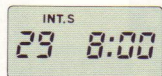
Precise control for data imprinting
and unmanned controls



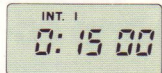
The Minolta Program Back 70 is the perfect accessory for the MAXXUM scientific photographer or anyone who just likes to keep accurate records of their travels. Thanks to sophisticated circuitry, imprint exposure is automatically set by the MAXXUM 7000 according to the film speed in use. Quartz-control circuitry is used to time all functions for the highest level of precision and accuracy.

Camera control

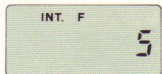
- Start time: The day-hour-minute you want camera operation to automatically begin.
- Interval time: From one second to 99 hours, 59 minutes, 59 seconds.
- Number of frames: From 1 to 99 exposures can be set.



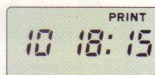
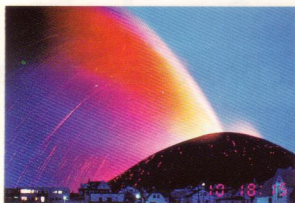
Start time: Program the MAXXUM to automatically begin shooting at the precise moment you wish.



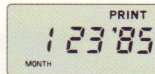
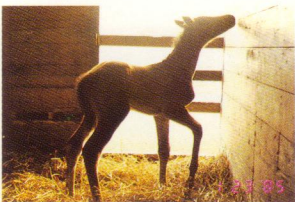
Interval time and shooting frames: Length of interval between exposures and number of frames can be set.



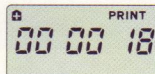
Data imprinting



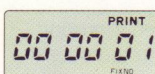
Time: Accurate day-hour-minute imprinting pinpoints the precise moment of shooting.



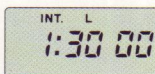
Date: Month, day and year may be imprinted in one of three combinations.



Count: Frames can be sequentially numbered either in ascending or descending order.



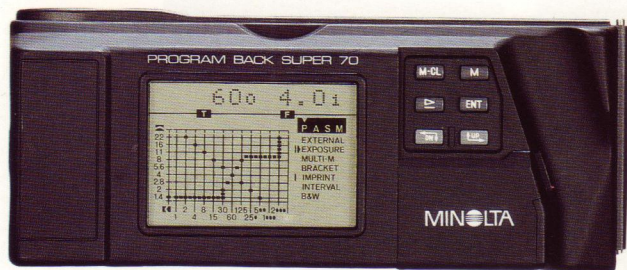
Code: Any number up to six digits in length may be imprinted to encode any frame.



Long exposure: Individual or sequential timed long exposures can be set up to 99 hours, 59 minutes, 59 seconds in length. (maximum long-exposure time with fresh AAA-size batteries is approx. 4 hours)

The Minolta Program Back Super 70

A more sophisticated, professional-use multi-function back

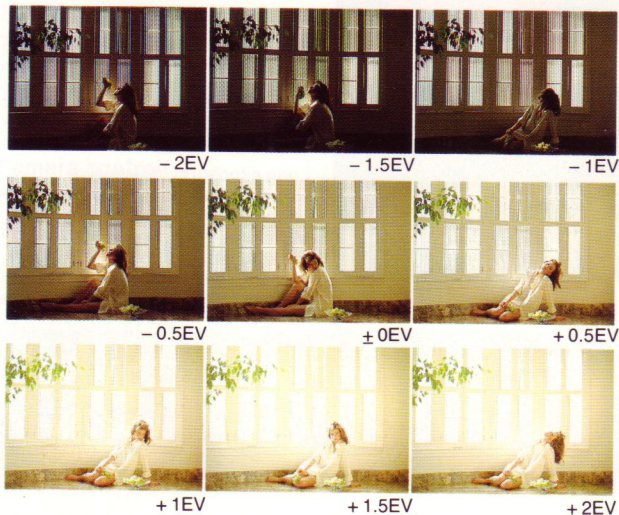


The Minolta Program Back Super 70 truly brings new dimensions to photographic creativity. Besides the very useful features of the Program Back 70, the Super 70 offers:

- **Special Program Memory:** Allows you to create your own exposure programs for recall and use at any time.

- **Automatic Bracketing:** Up to nine consecutive exposures can be set in quarter-stop intervals.
- **Exposure Data Imprinting:** Allows printing of aperture and shutter speed used for each exposure on the extreme edge of the film frame (area usually masked by standard slide mounts).

Automatic bracketing



The Minolta Wireless Controller IR-1N Set

Silent, remote camera control from a distance



The Minolta Wireless Controller IR-1N Set permits the Minolta MAXXUM to be operated from a distance. The photographer—up to 200 feet away—can control the MAXXUM in manual focusing mode by means of this infrared transmitter and receiver set. Three-channel operation allows up to three cameras to be operated simultaneously or independently.



MAXXUM AF Lenses

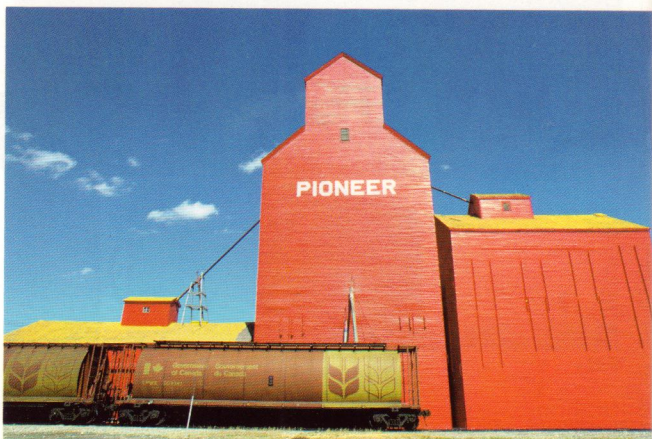
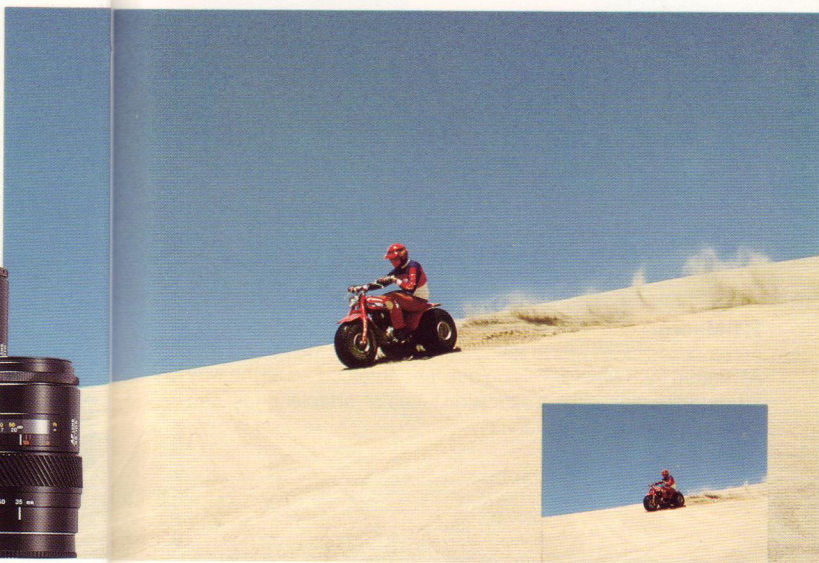
A world of creativity awaits you.

These fourteen MAXXUM AF lenses are just the start of a growing lens system for both beginners and professionals. Autofocus lenses available range from 24mm to 600mm, including six macro-zooms covering focal lengths from 28mm to 300mm. Whether you shoot dramatic landscapes, detailed close-ups, or tightly composed telephoto shots, there's a MAXXUM AF lens to fit your needs.



Zoom lenses

MAXXUM AF zoom lenses make it easy to compose your picture right in the viewfinder. Zoom in to fill the frame with your main subject, or zoom out and reveal more of the background. For added versatility, all MAXXUM AF zooms focus to a quarter life-size.



Wideangle lenses

For landscapes, unique perspectives, or in close quarters, MAXXUM AF wideangle lenses produce striking results. You can concentrate on composition, while MAXXUM autofocusing assures sharply focused images.

MAXXUM AF 50mm f/2.8 Macro
A world of creativity



1:1 Macro

Autofocused close-ups to life-size are yours with the MAXXUM AF 50mm f/2.8 Macro. This unique lens autofocuses all the way to 1:1 magnification without extension tubes or adapter rings, and is far faster than possible manually.



Telephoto lenses

With MAXXUM AF telephoto lenses, you can get optically "closer" to inaccessible subjects and modify perspective for aesthetic or practical purposes. Many creative opportunities are yours in candid portraits, sports and photography, etc.

MAXXUM Interchangeable Autofocus Lenses

Breakthrough technology in lens making.

Just lock a MAXXUM AF lens into the new "A" mount, and the camera and lens become an integrated unit. Instantly, vital exposure- and focus-related data flows from the lens ROM IC to the camera's CPU. This data enables automatic multi-program selection, ultra-precise electronic aperture selection, and computer-controlled auto-focusing. Data transferred includes: focal length, aperture range, effective aperture (on zooms), and type of lens (tele, wideangle, macro, zoom). Further, with this unique camera-lens relationship, the body-integral AF motor is instantly coupled to the lens' focus mechanism.



MAXXUM AF 24mm f/2.8
Angle of view: 84°
Minimum focus: 0.8 ft.
Dimensions: $\phi 2\text{-}9/16 \times 1\text{-}3/4$ in.
Weight: 7- $5/8$ oz.



MAXXUM AF 28mm f/2.8
Angle of view: 75°
Minimum focus: 1 ft.
Dimensions: $\phi 2\text{-}9/16 \times 1\text{-}11/16$ in.
Weight: 7- $7/16$ oz.



MAXXUM AF 50mm f/1.4
Angle of view: 47°
Minimum focus: 1.5 ft.
Dimensions: $\phi 2\text{-}9/16 \times 1\text{-}1/2$ in.
Weight: 8- $5/16$ oz.



MAXXUM AF 50mm f/1.7
Angle of view: 47°
Minimum focus: 1.5 ft.
Dimensions: $\phi 2\text{-}9/16 \times 1\text{-}1/2$ in.
Weight: 6- $7/8$ oz.



MAXXUM AF 600mm f/4 Apo*
Angle of view: 4° 10'
Minimum focus: 20 ft.
Dimensions: $\phi 6\text{-}5/8 \times 17\text{-}11/16$ in.
Weight: 12 lb. 2 oz.



MAXXUM AF 50mm f/2.8 Macro
Angle of view: 47°
Minimum focus: 0.6 ft.
Maximum magnification: 1X
Dimensions: $\phi 2\text{-}11/16 \times 1\text{-}11/16$ in.
Weight: 10- $15/16$ oz.



MAXXUM AF 35-70mm f/4
Angle of view: 63°—34°
Minimum focus (macro): 3.3 ft. (1 ft.)
Maximum magnification: 0.25X
Dimensions: $\phi 2\text{-}11/16 \times 2\text{-}1/16$ in.
Weight: 9- $1/16$ oz.



MAXXUM AF 135mm f/2.8
Angle of view: 18°
Minimum focus: 3.3 ft.
Dimensions: $\phi 2\text{-}9/16 \times 3\text{-}1/4$ in.
Weight: 12- $7/8$ oz.



MAXXUM AF 35-105mm f/3.5-4.5
Angle of view: 63°—23°
Minimum focus (macro): 4.9 ft. (1.3 ft.)
Maximum magnification: 0.25X
Dimensions: $\phi 2\text{-}11/16 \times 3\text{-}7/16$ in.
Weight: 1 lb. 1- $1/2$ oz.



MAXXUM AF 28-85mm f/3.5-4.5
Angle of view: 75°—29°
Minimum focus (macro): 2.6 ft. (0.8 ft.)
Maximum magnification: 0.25X
Dimensions: $\phi 2\text{-}11/16 \times 3\text{-}3/8$ in.
Weight: 1 lb. 1- $15/16$ oz.



MAXXUM AF 70-210mm f/4
Angle of view: 34°—12°
Minimum focus (macro): 3.6 ft. (3.6 ft.)
Maximum magnification: 0.256X
Dimensions: $\phi 2\text{-}7/8 \times 6$ in.
Weight: 1 lb. 8- $1/2$ oz.



MAXXUM AF 28-135mm f/4-4.5
Angle of view: 75°—18°
Minimum focus (macro): 4.9 ft. (0.8 ft.)
Maximum magnification: 0.25X
Dimensions: $\phi 2\text{-}15/16 \times 4\text{-}5/16$ in.
Weight: 1 lb. 11- $3/16$ oz.



MAXXUM AF 75-300mm f/4.5-5.6*
Angle of view: 32°—8° 10'
Minimum focus (macro): 4.9 ft. (4.9 ft.)
Maximum magnification: 0.256X
Dimensions: $\phi 2\text{-}7/8 \times 6\text{-}7/16$ in.
Weight: 1 lb. 14- $7/8$ oz.



MAXXUM AF 300mm f/2.8 Apo
Angle of view: 8° 10'
Minimum focus: 8.2 ft.
Dimensions: $\phi 5\text{-}1/16 \times 9\text{-}3/8$ in.
Weight: 5 lb. 7- $5/8$ oz.

Names of Parts



- 1 Exposure mode key
- 2 Exposure adjustment key
- 3 Drive mode key
- 4 Film speed key
- 5 Accessory shoe
- 6 Lens contacts
- 7 Data panel
- 8 Back cover release
- 9 Film window
- 10 Remote control terminal
- 11 Aperture keys
- 12 Lens release
- 13 Focus mode switch
- 14 Mounting index
- 15 Minolta "A" mount
- 16 Main switch
- 17 Self-timer LED
- 18 Program reset
- 19 Shutter speed keys
- 20 Control grip contacts
- 21 Operating button
- 22 Film chamber
- 23 DX contacts
- 24 Battery holder
- 25 Tripod socket
- 26 Accessory back contacts
- 27 Sprocket
- 28 Eyepiece
- 29 Rewind switch
- 30 Rewind release
- 31 Leader index
- 32 AE lock

Specifications

Type: Autofocus 35mm SLR with multi-program AE controlled by two 8-bit microcomputers

Lens mount*: Minolta "A"-type bayonet with electrical contacts for integrated lens-camera control; accepts all MAXXUM AF lenses

Autofocus system: Minolta TTL phase-detection type with CCD sensor array and microcomputer for direct, digital adjustment

Sensitivity range: EV 2 to 19 at ISO 100 in ambient light; using Minolta MAXXUM Flash for low-contrast subjects in low light, AF illuminator is triggered; operates with all MAXXUM AF lenses

Focus signals: Green LED glows and camera beeps when subject is in focus; when focusing manually, red LEDs show which way to turn lens; red LEDs in viewfinder blink when manual focusing is necessary.

Controls: Keys to set exposure mode, drive mode, exposure adjustment, and film speed; AE lock; program reset key sets camera to P mode, single-frame advance, and cancels exposure adjustment

Shutter: Vertical-traverse electronically controlled focal-plane type shutter-speed range: 1/2000 to 30 sec.; stepless in P and A modes; full-stop settings in M or S modes; "bulb" in M mode

Film speeds: ISO 25 to 6400 in ambient light, ISO 25 to 1000 for TTL flash metering, both in 1/3-EV steps; auto film-speed setting with DX-coded films

Metering: Center-weighted averaging; silicon photo cell (SPC) on pentaprism for ambient light; range: EV -1 to 20 with ISO 100 film and 50/1.4 lens (e.g., 4 sec. at f/1.4 to 1/2000 sec. at f/22); second SPC in mirror box for TTL flash metering

Exposure modes:

Program (P): Shutter speed and aperture set according to one of three camera-selected AE programs: Wide for focal lengths shorter than 35mm, Standard—35mm to 105mm, Tele—longer than 105mm; program changes automatically when zooming from one range to another

Aperture-priority AE (A): Available apertures selectable in half-stops, camera sets corresponding stepless shutter speed

Shutter-priority AE (S): Speeds 1/2000 to 30 sec. selectable in full stops, camera sets aperture from available range on lens

Metered-manual (M): Manual setting of any speed and aperture; correct exposure indicated in viewfinder

TTL flash metering: Operates in all flash modes with dedicated units; viewfinder LED signals flash charge and sufficient exposure

*Only the MAXXUM AF lenses can be mounted on the new "A" mount. Minolta MC- and MD-series lenses cannot be attached.

P: Automatic setting of X-sync to 1/100 sec. (1/60 below EV 12 at ISO 100) and aperture; automatic fill-in flash with bright subjects

A: 1/100 X-sync; any available aperture usable; AE lock button enables slower X-sync speeds to balance flash with ambient lighting

M: X-sync at 1/100 or slower speeds, any available aperture usable; X-sync speed is reset to 1/100 if 1/125 or faster speeds are set

Exposure controls: Exposure adjustment EV +4 to -4 in half-stops; AE lock holds AE settings; program shift to select other programmed aperture-shutter settings for metered EV, settings held as long as meter is kept on

Operating button: Touch Switch activates metering and LCD displays which remain on for 10 sec. after finger is lifted from button; pressing halfway activates autofocus and focus hold; pressing button all the way releases shutter

Film transport: Auto threading, auto advance to first frame, built-in motor drive with single-frame or continuous advance up to 2 frames per second, power rewinding, auto rewind stop

Viewfinder: Eye-level fixed pentaprism shows 94% of 24 x 36mm film frame; magnification 0.85X with 50mm lens at infinity; focusing screen can be changed by user; dioptic correction lenses available

Top panel LCD: Shows exposure mode, program shift, shutter speed, aperture, exposure adjustment, film speed, frame number, drive mode, self-timer operation, "bulb" operation, low battery warning, over-/underexposure warning

Viewfinder LCD: Automatically illuminated; shows exposure mode, program shift, shutter speed, aperture, exposure adjustment, film speed, low battery warning, whether light is within metering range, over-/underexposure warning

Power: Four AAA-size 1.5v alkaline-manganese batteries power all operations; built-in lithium cell for memory backup has approx. 10-year life; automatic low-power warning; sliding main switch; LOCK, ON, and \Rightarrow positions

Audible signals: At \Rightarrow position, camera beeps: when subject is in focus; at end of the roll; when using self-timer; as a slow shutter-speed warning in P or A mode, at speeds below: 1/30 sec. with lenses shorter than 35mm, 1/60 sec. with lenses 35mm to 105mm, and 1/125 sec. with lenses longer than 105mm

Self-timer: Electronic 10-second delay; indicated by 3-stage blinking LED on front of camera with simultaneous beeping, and countdown in data panel; cancelable by pressing drive mode key

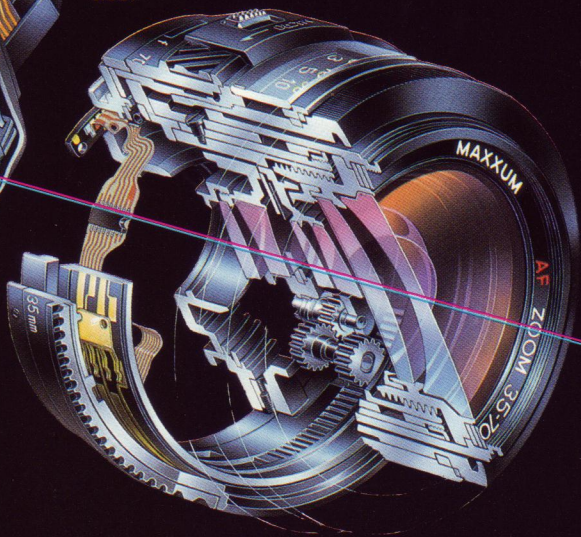
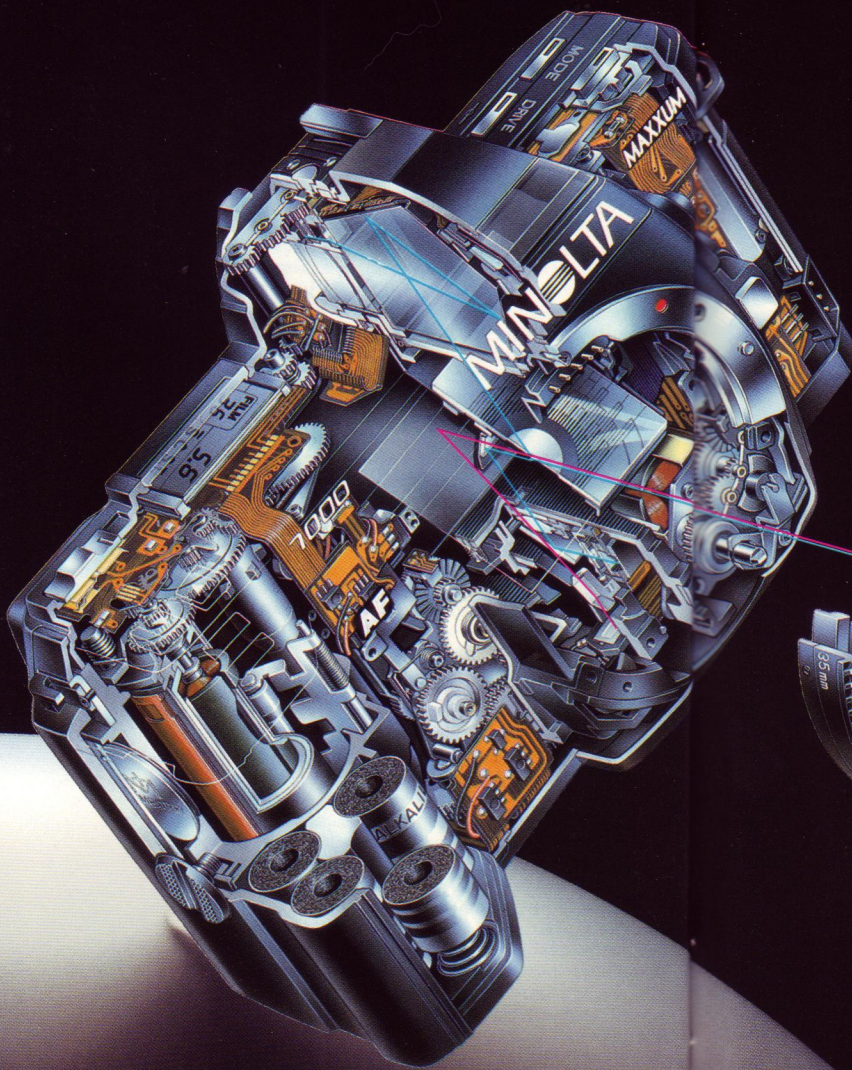
Size and weight: 2-1/16 x 3-5/8 x 5-7/16 in. (52 x 91.5 x 138mm), 19-9/16 oz. (555 g) without lens or batteries

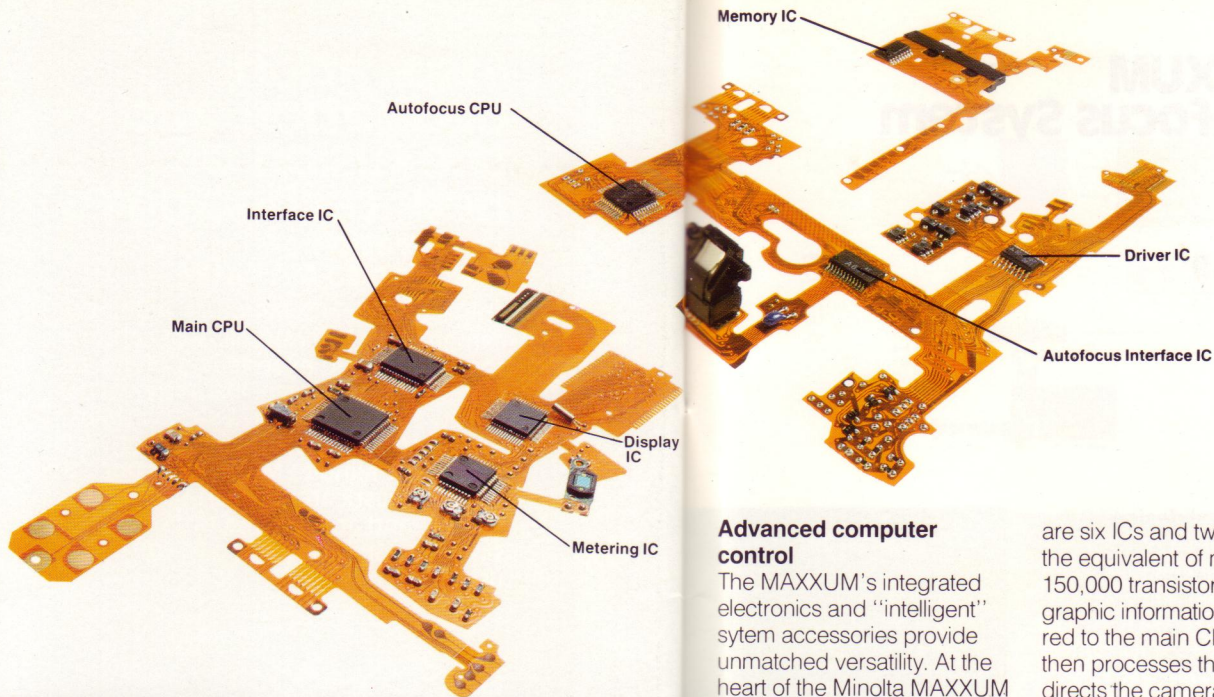
Specifications subject to change without notice

**Inspiration,
dedication, and
the fusion of
new technologies.**

**The creation of
the Minolta MAXXUM.**

This is the Minolta MAXXUM. A unique camera with the capability of capturing the split-second experiences of life as they actually happen. Instantly, accurately, exactly the way you saw them. Here is the story of the technology that makes the Minolta MAXXUM at once the most sophisticated 35mm SLR the world—and at the same time, the simplest camera to operate you'll ever use.





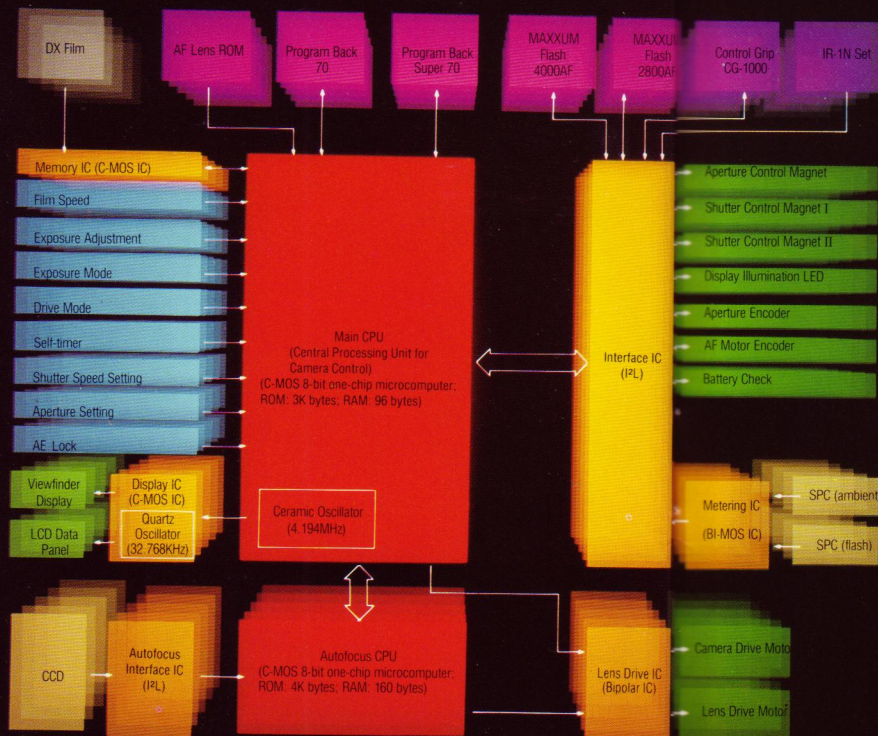
Advanced computer control

The MAXXUM's integrated electronics and "intelligent" system accessories provide unmatched versatility. At the heart of the Minolta MAXXUM

are six ICs and two CPUs—the equivalent of more than 150,000 transistors. All photographic information is transferred to the main CPU, which then processes the data and directs the camera's operations. Data corresponding to the "real-time" photographic situation is transmitted as digital signals throughout the entire electronic network. In essence, the MAXXUM is a "host" computer which interfaces with its system accessories, responding instantly to every photographic situation.

Ceramic/quartz control

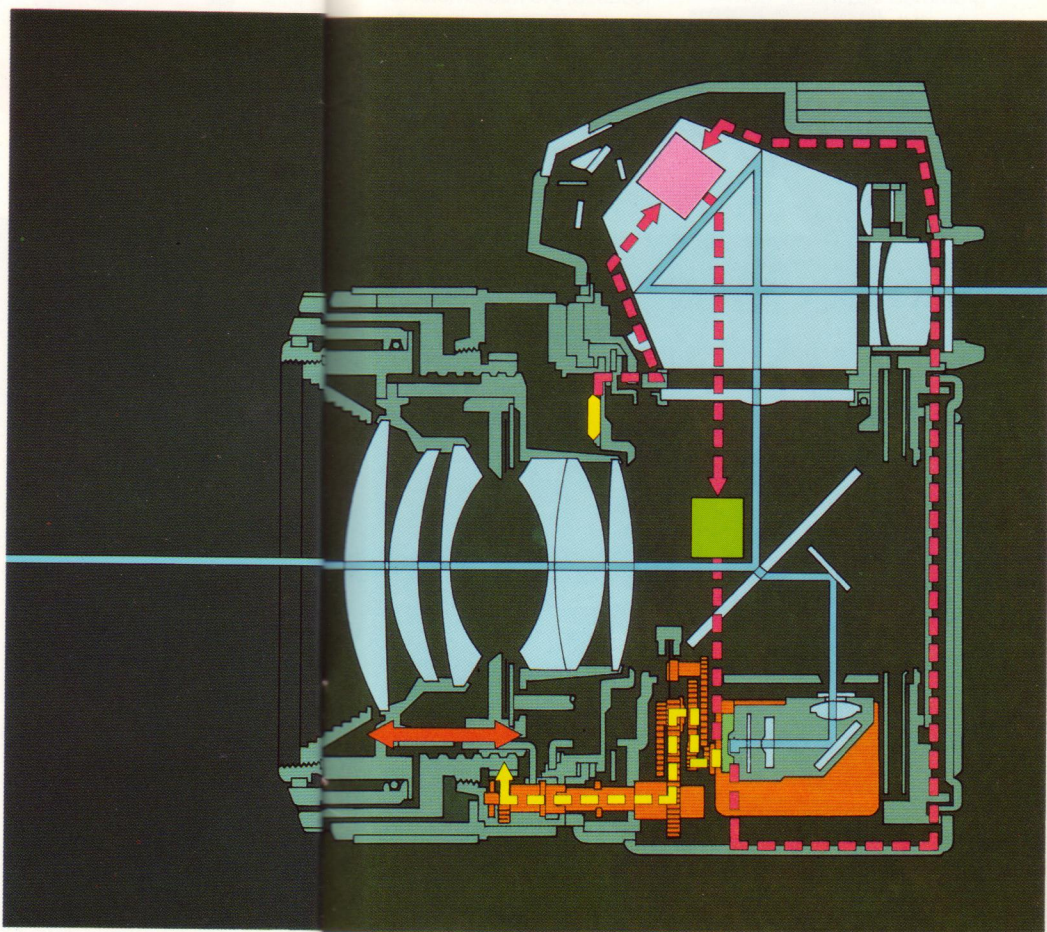
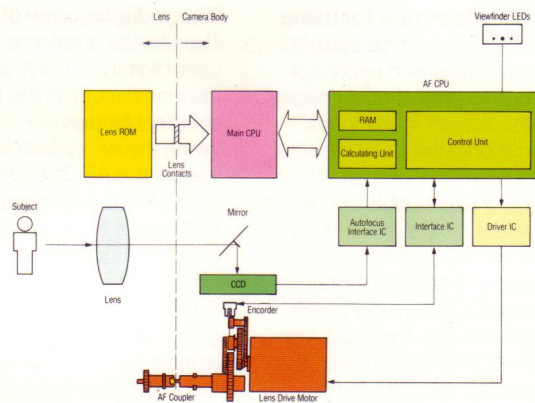
A 4.194MHz ceramic oscillator provides precise timing for the MAXXUM's two microcomputers as they direct exposure, autofocus, shutter release, and all other functions. In addition, the quartz oscillator times data panel and viewfinder LCD displays.



MAXXUM Autofocus System

Body-integral design

The MAXXUM's body-integral autofocus system solves problems inherent in motorized lens systems by centralizing all focus operations in the compact SLR body. Since the focusing motor, focus sensors, and microcomputer are built into the body, any focal length from wideangle to super-telephoto can be used. A ROM IC on each lens supplies vital focusing data to the camera's CPU through electrical contacts on the MAXXUM's new "A" lens mount. In this way, the weight and size of the camera and lens are minimized for excellent handling and control. The first truly integrated system. You'll feel the difference immediately.

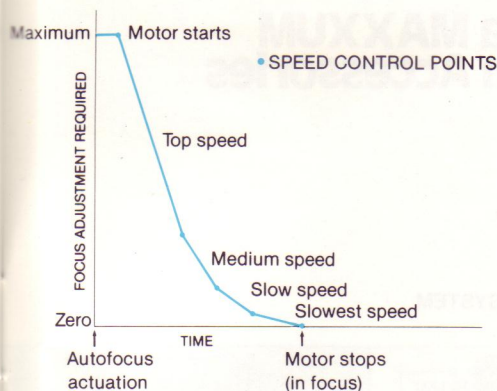


Phase-detection focusing

Minolta's autofocus system incorporates twin separator lenses to project dual images of the subject in the focus frame onto the CCD sensors. The AF microcomputer compares these signals and when they are "in-phase", the subject is in focus. The distance between the images projected on the CCD sensors varies depending on the focus condition. When the subject is in focus (A), the distance is equal to a reference programmed into the AF computer. If the distance is less (B), the subject is beyond the focus point of the lens. If the distance is greater (C), the subject is closer than the focus point of the lens.

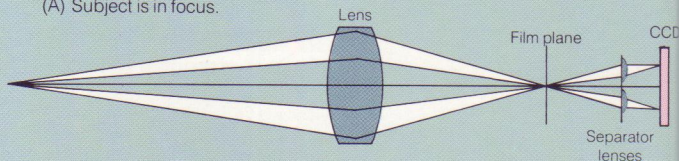
Direct digital control.

The Minolta autofocus system uses digital control to adjust the lens directly to the point of sharpest focus. When the AF system is actuated, the AF CPU determines focus adjustment required. If this amount is great, the four-speed micro-motor starts at its top speed. Each rotation of the micro-motor produces digital signals which the CPU uses to further control the motor's speed. As the subject is focused, the micromotor is slowed down automatically in three stages. And at the precise moment sharp focus is reached, the motor stops completely.

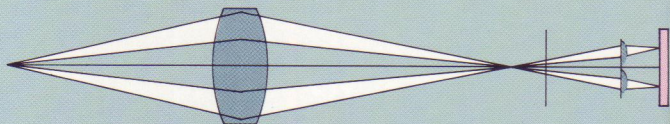


Phase-detection focusing

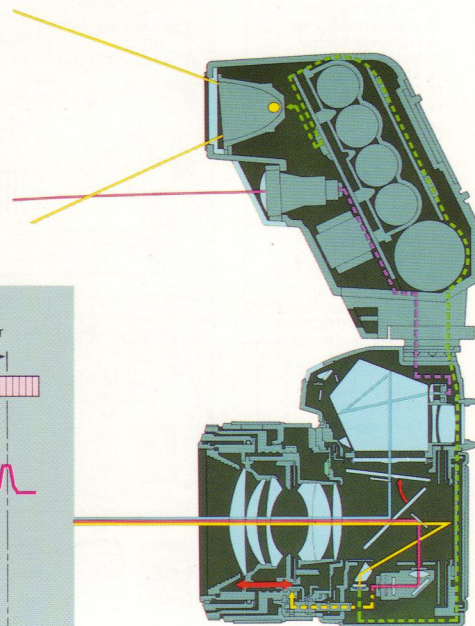
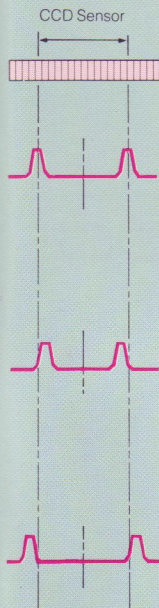
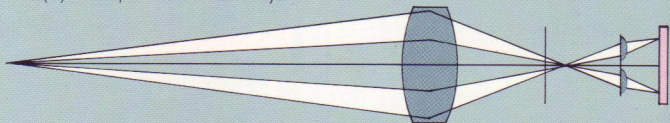
(A) Subject is in focus.



(B) Focal point is in front of subject.



(C) Focal point is behind subject.



Autofocusing in the dark

MAXXUM autofocusing works at light levels down to EV 2 at ISO 100. When using the MAXXUM Flash, the AF illuminator is activated automatically for low-contrast subjects in low lighting. This unique feature makes it possible to get fast, accurate auto-focusing where focusing manually would be impossible.

Minolta MAXXUM System Accessories

MAXXUM SYSTEM

1. Cable CD
2. Cable EX
3. Cable OC
4. Off Camera Shoe
5. Triple Connector TC-1000
6. AC Adapter AC-1000
7. Panel Set PS-1000
8. Bounce Reflector Set
9. Wideangle Adapter
10. Wideangle Adapter
11. AF Illuminator Unit AI-1000
12. Grip Extension Cable EC-1000
13. Battery Cartridge PG
14. Ni-Cd Battery Pack NP-2
15. Ni-Cd Charger QC-1
16. Eyepiece Hood EH-7
17. Eyepiece Cap
18. Magnifier VN
19. Angle Finder VN
20. Eyepiece Corrector 1000
21. Focusing Screen
22. Ni-Cd Charger NC-2
23. Battery Holder BH-70S
24. Battery Holder BH-70L
25. External Battery Pack EP-70
26. Remote Cord RC-1000L
27. Remote Cord RC-1000S
28. AF 24mm f/2.8
29. AF 28mm f/2.8
30. AF 50mm f/1.7
31. AF 50mm f/1.4
32. AF 135mm f/2.8
33. AF 300mm f/2.8 Apo
34. AF 600mm f/4 Apo
35. AF 28—85mm f/3.5—4.5
36. AF 28—135mm f/4—4.5
37. AF 35—70mm f/4
38. AF 35—105mm f/3.5—4.5
39. AF 70—210mm f/4
40. AF 75—300mm f/4.5—5.6
41. AF 50mm f/2.8 Macro
42. Filters
43. Portrayer Filters
44. Close-Up Lens
45. Gelatin Filter Holder
46. Body Cap
47. Lens Cap
48. Lens Rear Cap
49. Panorama Head II
50. Lens Case
51. Camera Case
52. Minolta Tripod TR-1
53. Copy Stand II

METERS & ACCESSORIES

1. Spotmeter M
2. Auto Meter III F
3. Auto Meter III
4. Flash Meter IV
5. Data Receiver DR-1000
6. Color Meter II
7. Booster II
8. Viewfinder 5°
9. Viewfinder 10°
10. 4X&8X Spherical ND Diffuser
11. Flat Diffuser
12. Spot Mask II
13. Reflected-light Attachment
14. Mini Receptor
15. Sync Cord II

