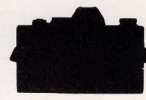


# Minolta 35mm SLR Camera Specifications



## XK MOTOR

## XD-11

## XD-5

## XG-M

## XG-1

## SR-T 201

## SR-T 200

<b>Type:</b>	Integral motor-drive, interchangeable-finder/screen-type 35mm SLR with electronic, focal plane shutter.	Compact 35mm SLR with aperture- or shutter-priority automatic or metered/full-manual exposure control.	Compact 35mm SLR with aperture- or shutter-priority automatic or metered/full-manual exposure control.	Compact 35mm SLR with aperture-priority automatic and full metered-manual control.	Compact 35mm SLR with aperture-priority automatic and full manual control.	35mm SLR with through-the-lens, match-needle exposure metering.	35mm SLR with through-the-lens match-needle exposure metering.
<b>Exposure range:</b>	EV 2 to EV 17 for single-frame operation; EV 3 to EV 17 for continuous operation.	EV 1 to EV 18	EV 1 to EV 18	EV 2 to EV 17	EV 2 to EV 17	EV 3 to EV 17	EV 3 to EV 17
<b>Shutter:</b>	Electronically controlled titanium-foil, horizontal-traverse focal-plane type; two mechanically-controlled settings. Electronic speeds: 16 to 1/2000 sec. in steps, 8 to 1/2000 sec. steplessly. Mechanical settings: X (1/100 sec.) and B.	Electronically controlled, vertical-traverse, metal-blade, focal-plane with electromagnetic release. Electronic speeds: 1 to 1/1000 sec. steplessly or steps, or at X (1/100 sec.). Mechanical settings: "0" (1/100 sec.), B.	Electronically controlled, vertical-traverse, metal-blade, focal-plane with electromagnetic release. Electronic speeds: 1 to 1/1000 sec. steplessly or steps, or at X (1/100 sec.). Mechanical settings: "0" (1/100 sec.), B.	Electronically controlled, horizontal-traverse, focal-plane with electromagnetic release. Exposure system automatically prevents shutter release when speed required for proper exposure is over 1/1000 sec. on automatic mode.	Electronically controlled, horizontal-traverse, focal-plane with electromagnetic release. Exposure system automatically prevents shutter release when speed required for proper exposure is over 1/1000 sec. on automatic mode.	Focal-plane shutter with speeds from 1 sec. to 1/1000 sec. plus B, self-timer.	Focal plane shutter with speeds from 1 to 1/1000 sec. plus B.
<b>Film advance:</b>	Motor-driven: single micromotor for single-frame, 1, 2, 3 and 3.5 ("H") fps. Manual: 110° winding angle. Film advance locks when voltage is low. Rewind: motor-driven or manually by crank.	Lever type, single 130° stroke. Motorized film advance with Auto Winder D.	Lever type single 130° stroke. Motorized film advance with Auto Winder D.	Lever type, single 130° stroke. Motorized film advance with Motor Drive 1 or Auto Winder G.	Lever type, single 130° stroke. Motorized film advance with Auto Winder G.	Lever type, single or multiple stroke with 150° winding angle.	Lever type, single or multiple stroke with 150° winding angle.
<b>Metering:</b>	Aperture-priority, automatic electronic and metered/manual exposure control with AE-S Finder. Full-aperture through-the-lens center-weighted type by silicon photocell. Film speed range: ASA 12 to 6400. Auto-exposure adjustment up to ± 2EV.	Through-the-lens, center-weighted by silicon photo diode. Film speed range: ASA 12 to 3200. Auto exposure adjustments: up to ± 2EV.	Through-the-lens center-weighted by silicon photo diode. Film speed range: ASA 12 to 3200. Auto exposure adjustments: up to ± 2EV.	Full-aperture, through-the-lens, center-weighted type by two CdS photo cells. Film speed range: ASA 25 to 1600. Auto-exposure adjustment: up to ± 2EV.	Full-aperture, through-the-lens, center-weighted type by two CdS photo cells. Film speed range: ASA 25 to 1600. Auto-exposure adjustment: up to ± 2EV.	Through-the-lens, full-aperture measuring system via CdS photo cell. Film speed range: ASA 6 to 6400.	Through-the-lens full-aperture measuring system via CdS photo cell. Film speed range: ASA 6 to 6400.
<b>Finder:</b>	Interchangeable	Fixed, eye-level pentaprism.	Fixed, eye-level pentaprism.	Fixed, eye-level pentaprism.	Fixed, eye-level pentaprism.	Fixed, eye-level pentaprism.	Fixed, eye-level pentaprism.
<b>Focusing Screen:</b>	Interchangeable	Bright Acute Matte, micro/split.	Bright Acute Matte, micro/split.	Bright Acute Matte with micro/split.	Matte-Fresnel field with micro/split.	Matte-Fresnel field with split-image spot surrounded by microprism collar.	Matte-Fresnel field with split-image spot surrounded by microprism collar.
<b>Field of view:</b>	98%	94%	94%	93%	93%	94%	94%
<b>Magnification:</b>	0.8X	0.87X	0.87X	0.9X	0.9X	0.83X	0.83X
<b>Viewfinder Information:</b>	LED/digital shutter speed indicator, f/number set.	LED shutter speed display with f/number and/or shutter speed set. LED aperture display with speed and f/number set. Over/under-exposure warning by LED. Flash-ready by blinking LED.	LED shutter speed display. LED aperture display. Over/under-exposure warning by LED. Flash-ready by blinking LED.	LED shutter speed display with f/number set. Over/under-exposure warning by LED. Flash-ready by LED at "60." LED manual exposure signal.	Simplified shutter speed display with slow speeds (1 to 1/15) indicated by one LED. Over/under-exposure warning by LED. Flash-ready by LED at "60."	Match-needle for exposure control. Battery-check indicator. Shutter-speed scale.	Match-needle for exposure control. Battery check indicator.
<b>Flash Contact:</b>	X contact: 1/100 sec. (X) and slower speeds. FP contact: all speeds through 1/2000 sec., single PC terminal with X/FP switch.	X contact: 1/100 sec. (X) and slower speeds. PC terminal and hot shoe.	X contact: 1/100 sec. (X) and slower speeds. PC terminal and hot shoe.	X contact: 1/60 sec. (X) and slower speeds. PC terminal and hot shoe.	X contact: 1/60 sec. (X) and slower speeds. PC terminal and hot shoe.	X contact: 1/60 sec. (X) and slower speeds. PC terminal and hot shoe.	X contact: 1/60 sec. (X) and slower speeds. PC terminal and hot shoe.
<b>Power:</b>	Two 1.5V silver-oxide (Eveready S-76 or equivalent). Ten 1.5V "AA" batteries for motor drive.	Two 1.5V silver-oxide (Eveready S-76 or equivalent) batteries.	Two 1.5V silver-oxide (Eveready S-76 or equivalent) batteries.	Two 1.5V silver-oxide (Eveready S-76 or equivalent) batteries.	Two 1.5V silver-oxide (Eveready S-76 or equivalent) batteries.	1.35V mercury battery (Eveready EPX-625 or equivalent).	1.35V mercury battery (Eveready EPX-625 or equivalent).
<b>Other Features:</b>	<ul style="list-style-type: none"> <li>Multiple exposure</li> <li>Built-in auto "senswitch"</li> <li>Battery checks for exposure and motor batteries</li> <li>Memo holder</li> <li>Remote-control input jack</li> <li>Eyepiece-shutter blind (on AE-S finder)</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical self-timer</li> <li>Built-in eyepiece shutter</li> <li>Multiple exposure</li> <li>Depth-of-field preview button</li> <li>Detachable back cover</li> <li>Memo holder</li> <li>Safe-load signal</li> <li>Electronic/mechanical release socket</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical self-timer</li> <li>Depth-of-field preview button</li> <li>Detachable back cover</li> <li>Memo holder</li> <li>Electronic/mechanical release socket</li> <li>Multiple exposure</li> </ul>	<ul style="list-style-type: none"> <li>Electronic self-timer</li> <li>Detachable back cover</li> <li>Memo holder</li> <li>Safe-load signal</li> <li>Electronic/mechanical release socket</li> <li>Depth-of-field preview button</li> <li>Contoured hand-grip</li> </ul>	<ul style="list-style-type: none"> <li>Electronic self-timer with flashing LED indicator</li> <li>Safe-load signal</li> <li>Electronic/mechanical release socket</li> </ul>	<ul style="list-style-type: none"> <li>Depth-of-field preview button</li> <li>Battery ON/OFF and B.C. switch</li> <li>Memo holder</li> <li>Hot shoe</li> </ul>	<ul style="list-style-type: none"> <li>Depth-of-field preview button</li> <li>Battery ON/OFF and B.C. switch</li> <li>Hot shoe</li> </ul>
<b>Optional Accessories:</b>	<ul style="list-style-type: none"> <li>250-frame film back and film loader</li> <li>Battery grip or separate pack</li> <li>Remote control cords S and L</li> <li>Intervalometer PM and connecting cords</li> <li>Hot shoe</li> </ul>	<ul style="list-style-type: none"> <li>Dedicated X-series Auto Electroflash units</li> <li>Auto Winder D</li> <li>Data Back D</li> <li>Electronic remote control cord S, L</li> </ul>	<ul style="list-style-type: none"> <li>Dedicated X-series Auto Electroflash units</li> <li>Auto Winder D</li> <li>Data Back D</li> <li>Electronic remote control cord S, L</li> </ul>	<ul style="list-style-type: none"> <li>Dedicated X-series Auto Electroflash units</li> <li>Motor Drive 1</li> <li>Auto Winder G</li> <li>Data Back G</li> <li>Electronic remote control cord S, L</li> </ul>	<ul style="list-style-type: none"> <li>Dedicated X-series Auto Electroflash units</li> <li>Auto Winder G</li> <li>Electronic remote control cord S, L</li> </ul>		
<b>Size (body size):</b>	3¼ x 5¼ x 6¼ in. (83 x 147.5 x 171mm) (with AE-S finder)	2 x 3¾ x 5½ in. (51 x 86 x 136mm)	2 x 3¾ x 5½ in. (51 x 87 x 136.5mm)	2 1/16 x 3 9/16 x 5 7/16 (52 x 89.5 x 138mm)	2 x 3 7/16 x 5½ in. (52 x 88 x 135mm)	5¼ x 1 7/8 x 3¾ (145 x 47.5 x 95mm)	5¼ x 1 7/8 x 3¾ in. (145 x 47.5 x 95mm)
<b>Weight (body only):</b>	51 oz. (1445g) with AE-S finder (without batteries.)	19 1/16 oz. (560g)	18 1/2 oz. (525g)	18 3/4 oz. (520g)	17 1/4 oz. (490g)	24 13/16 oz. (705g)	24 5/16 oz. (690g)

NOTE: Specifications subject to change without notice.

March, 1981

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# Minolta Electronic Flash Specifications

Minolta electronic flash units.	Dedicated Auto Electroflash				Auto Electroflash			Electroflash	
	320X	200X	132X	118X	320	280	128	25	20
Type	Clip-on	Clip-on	Clip-on	Clip-on	Clip-on	Clip-on	Clip-on	Clip-on	Clip-on
Auto circuitry	Thyristor	Thyristor	Bypass	Bypass	Thyristor	Thyristor	Bypass	Bypass	Non-automatic
Guide number In meters at ASA 100 In Feet at ASA 25	32 52	20 33	32 52	18 30	32 52	28 46	28 46	25 41	20 33
Auto working range	36' to 2.3' (11 to 0.7m)	23' to 2.3' (7 to 0.7m)	26' to 2.3' (8 to 0.7m)	30' to 2.3' (9 to 0.7m)	36' to 2.3' (11 to 0.7m)	23' to 2.3' (7 to 0.7m)	16' to 2.3' (5 to 0.7m)	15' to 2.3' (4.5 to 0.7m)	Non-automatic
Flash duration in sec. (Automatic) (Manual)	1/20,000– 1/1000 1/1000	1/40,000– 1/1000 1/6000 and 1/1000	1/40,000– 1/1000 1/1000	1/40,000– 1/3000 1/3000	1/20,000– 1/1000 1/1000	1/30,000– 1/1000 1/1000	1/40,000– 1/1000 1/1000	1/40,000– 1/2000 1/2000	1/2000
Auto flash apertures (At ASA 100)	f/2.8, f/5.6 and f/11	f/2.8 and f/5.6	f/4 and f/8	f/2 and f/4	f/2.8, f/5.6 and f/11	f/4 f/11	f/5.6	f/5.6	Non-automatic
Power sources	4 AM or Ni-Cad AA cells	4 AM, sealed C-Zn or Ni-Cad AA cells	4 AM or Ni-Cad AA cells	2 AM, sealed C-Zn or Ni-Cad AA cells	4 AM or Ni-Cad AA cells	4 AM or Ni-Cad AA cells	4 AM, sealed C-Zn or Ni-Cad AA cells	4 AM, sealed C-Zn AA cells	2 AM, sealed C-Zn AA cells
Recycling time in sec.*	0.2 to 8	0.3 to 6	5 or 8	4.5, 7 or 9	0.2 to 8	0.5 to 11	4, 7 or 8	6 or 7	10
Number of flashes*	up to 1600	up to 2200	up to 160	up to 200	up to 1600	up to 1200	up to 200	up to 210	up to 170
Angle of coverage: For lenses down to (with wide-angle diffuser)	35mm 28mm	35mm 28mm	35mm 28mm	35mm	35mm 28mm	35mm	35mm 28mm	35mm	38mm
Automatic bounce flash	Yes		Yes		Yes	Yes	Yes		
Variable guide number/ power control	Yes				Yes				
Flash distance checker	Yes		Yes		Yes		Yes		
Dimensions W x D x H	3" x 3 <sup>5</sup> / <sub>16</sub> " x 4 <sup>13</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> " x 2 <sup>3</sup> / <sub>4</sub> " x 3 <sup>9</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> " x 2 <sup>9</sup> / <sub>16</sub> " x 4 <sup>11</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>8</sub> " x 1 <sup>7</sup> / <sub>8</sub> " x 3 <sup>5</sup> / <sub>16</sub> "	3" x 3 <sup>5</sup> / <sub>16</sub> " x 4 <sup>13</sup> / <sub>16</sub> "	2 <sup>13</sup> / <sub>16</sub> " x 2 <sup>1</sup> / <sub>8</sub> " x 6"	2 <sup>9</sup> / <sub>16</sub> " x 2 <sup>9</sup> / <sub>16</sub> " x 4 <sup>11</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>16</sub> " x 2 <sup>3</sup> / <sub>8</sub> " x 4 <sup>1</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>4</sub> " x 2 <sup>9</sup> / <sub>16</sub> " x 2 <sup>9</sup> / <sub>16</sub> "
Weight (without batteries)	13 <sup>3</sup> / <sub>8</sub> oz.	7 <sup>3</sup> / <sub>8</sub> oz.	8 <sup>5</sup> / <sub>16</sub> oz.	4 <sup>9</sup> / <sub>16</sub> oz.	13 <sup>3</sup> / <sub>8</sub> oz.	11 <sup>7</sup> / <sub>16</sub> oz.	7 <sup>3</sup> / <sub>4</sub> oz.	5 <sup>7</sup> / <sub>16</sub> oz.	3 <sup>1</sup> / <sub>8</sub> oz.
Optional accessories	Remote-sensor adaptor. AC adaptor. Panel set (including wide angle, telephoto and color panels). Power grip set. NC-2 charger.	NC-2 charger.	Wide-angle diffuser. NC-2 charger. Color filter set.	Wide-angle diffuser. NC-2 charger.	Remote-sensor adaptor. AC adaptor. Panel set (including wide angle, telephoto and color panels). Power grip set. NC-2 charger.	Ni-Cad batteries and charger 280.	Wide-angle diffuser. NC-2 charger. Color filter set.	None	None

\*Depending on power source and subject distance.

NOTE: Specifications subject to change without notice.



# Minolta Exposure Meter Specifications

	AUTO METER III	AUTO-SPOT II	AUTO-SPOT II DIGITAL	SPOTMETER M	FLASH METER III	COLOR METER II
<b>Type:</b>	Multi-function exposure meter for incident/reflected continuous light with LCD readout and memory by microprocessor.	Reflex-viewing spot-reading light meter with motorized moving scale.	Reflex-viewing spot-reading light meter with LED readout.	Reflex-viewing spot-reading light meter with LCD readout, memory and exposure-zone calculations by microprocessor.	Multi-function exposure meter for incident/reflected measurement of continuous and/or flash illumination with LCD readout; microprocessor.	Three-color measuring light analyzer for color photographic use with microprocessor and LCD readout.
<b>Photo Sensor:</b>	Silicon photo cell; receptor head rotates 270°	Silicon photo cell with 1° angle of acceptance; 9° field of view.	Silicon photo cell with 1° angle of acceptance; 9° field of view.	Silicon photo cell with 1° angle of acceptance.	Silicon photo cell; receptor head rotates 270°	3 silicon photo cells filtered to detect blue, green and red light.
<b>Readout:</b>	LCD f/number, EV number, ASA indexes, shutter speeds, over/under range indicator, analog f/number scale.	Motorized moving scales visible through viewfinder show ASA index, EV number, exposure time, f/number: cine scale.	LED f/number, EV number, over/under range indicator: cine scale.	LCD f/number, EV number, ASA, shutter speeds, over/under range indicator, analog f/number scale.	LCD f/number, exposure index number, over/under range indicator, multiple flash count.	LCD readout of color temperature ("K), light balancing (LB) and Color Compensating (CC) filter indexes.
<b>Measuring Ranges at ASA 100:</b>	Incident: EV 2 to 19.5 Reflected: EV 1 to 22.5	EV 3 to 17 (up to EV 21 with standard accessory ND filter).	EV 1 to 19.9	EV 1 to 22.5	<i>Flash:</i> incident/reflected f/1.4 to f/90.9 <i>Continuous:</i> incident/reflected EV 1 to 18.2	<i>LB indexes:</i> 762 to +999 mireds <i>CC indexes:</i> -99 to +99 decimireds <i>Color Temperature:</i> 1600 to 40,000K
<b>ASA Setting Range:</b>	12-6400 in 1/3 stop increments.	3-25,000 in 1/3 stop increments.	12-6400 in 1/3 stop increments.	12-6400 in 1/3 stop increments.	12-3200 in 1/3 stop increments.	Not applicable.
<b>Shutter Speed Settings:</b>	30 min. to 1/2000 sec.	30 to 1/2000 sec.	15 to 1/2000 sec.	30 min. to 1/2000 sec.	<i>Ambient:</i> 30 to 1/1000 sec. <i>Flash:</i> 1 to 1/250 sec.	Not applicable.
<b>f/numbers:</b>	f/0.7 to f/64.9	f/1 to f/45	f/1 to f/45	f/0.7 to f/64.9	f/1 to f/90.9	Not applicable.
<b>Other:</b>	ASA/Time display button with increase and decrease keys; alternate f/number/ EV number display button; dual memory capacity indicated on analog scale with digital recall; conversion table for ASA/DIN and exposure-time/cine speeds; readout reflects time/ASA changes.	Adjustable eyepiece diopter built-in lamp to illuminate finder scales; ± 1 EV fine measuring adjustment; conversion tables for EV-to-luminance, ASA/DIN; focusing from 3.3 ft. to infinity; tripod socket.	Adjustable eyepiece diopter built-in lamp to illuminate non-LED scales; ± 1 EV fine measuring adjustment; conversion tables for EV-to-luminance, ASA/DIN; readout reflects time changes; focusing from 3.3 ft. to infinity; tripod socket.	Adjustable eyepiece diopter built-in lamp to illuminate finder readout; ± 1 EV fine measuring adjustment; dual memory capacity indicated on analog scale with digital recall; conversion tables for ASA (ISO)/DIN and time/cine fps; readout reflects time/ASA changes; shadow, highlight and averaging exposure-zone calculation; tripod socket.	Four measuring modes: <i>AMBI:</i> continuous light <i>CORD:</i> cord-connected flash <i>NON.C:</i> single burst flash without cord connection <i>MULTI:</i> cumulative multiple flashes without cord connection. ± 1 EV fine measuring adjustment; readout reflects time changes; tripod socket.	Automatic zero calibration; index/filter conversion table; film-type settings preset for Type A, Type B, and Daylight films plus variable film settings in degrees Kelvin; detachable receptor head; tripod socket.
<b>Accessories:</b>	40° Reflected Light Attachment; Minolta Booster Viewfinder 10°; Mini Receptor; 4X, 8X ND Spherical Diffuser; Flat Diffuser; Spot Mask II.	16X ND filter; close-up lens adapter ring.	16X ND filter; close-up lens adapter ring.	—	40° Reflected Light Attachment; Minolta Booster; Viewfinder 10°; Mini-Receptor; 4X, 8X ND Spherical Diffuser; Flat Diffuser.	Adapter Cord MA-1 for remote use.
<b>Power Source:</b>	One 1.5V "AA" penlight (Eveready E91 or equivalent).	One 9V battery (Eveready 216 or equivalent).	One 9V battery (Eveready 216 or equivalent).	One 1.5V "AA" penlight (Eveready E91 or equivalent).	Six silver-oxide batteries (Eveready S76 or equivalent).	One 9V battery (Eveready 216 or equivalent).
<b>Size:</b>	5 <sup>3</sup> / <sub>16</sub> x 2 <sup>11</sup> / <sub>16</sub> x 4 <sup>3</sup> / <sub>16</sub> in.	2 <sup>7</sup> / <sub>8</sub> x 6 <sup>3</sup> / <sub>8</sub> x 4 <sup>11</sup> / <sub>16</sub> in.	2 <sup>7</sup> / <sub>8</sub> x 6 <sup>3</sup> / <sub>8</sub> x 4 <sup>11</sup> / <sub>16</sub> in.	1 <sup>7</sup> / <sub>8</sub> x 3 <sup>9</sup> / <sub>16</sub> x 5 <sup>7</sup> / <sub>16</sub> in.	1 <sup>3</sup> / <sub>16</sub> x 2 <sup>7</sup> / <sub>8</sub> x 6 in.	6 <sup>11</sup> / <sub>16</sub> x 2 <sup>13</sup> / <sub>16</sub> x 1 <sup>5</sup> / <sub>16</sub> in.
<b>Weight (without batteries):</b>	5 <sup>5</sup> / <sub>16</sub> oz.	19 <sup>3</sup> / <sub>4</sub> oz.	19 <sup>1</sup> / <sub>4</sub> oz.	8 <sup>1</sup> / <sub>2</sub> oz.	8 <sup>7</sup> / <sub>16</sub> oz.	8 <sup>1</sup> / <sub>16</sub> oz.

NOTE: Specifications subject to change without notice.








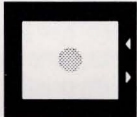
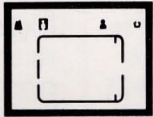
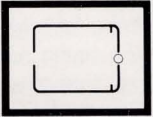
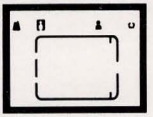



# Minolta Super-8 Movie Camera Specifications

XL-SOUND 84				XL-SOUND 64		XL-SOUND 42		AUTOPAK-8 D12		XL-601		XL-401	
Type:		Super-8 sound movie cameras with low-light filming capability.						Professional-quality Super-8 silent movie camera.		Super-8 silent movie cameras with low-light filming capability.			
Lens:		7–56mm (8X) f/1.4 Zoom-Macro; 62mm filter thread.		8–48mm (6X) f/1.4 Zoom-Macro; 49mm filter thread.		8.5–34mm (4X) f/1.2 Zoom-Macro; 46mm filter thread.		6.5–78mm (12X) f/1.8 Zoom-Macro; 67mm filter thread.		7.5–45mm (6X) f/1.7 Zoom-Macro; 46mm filter thread.		8.5–34mm (4X) f/1.2 Zoom-Macro; 46mm filter thread.	
Exposure System:		TTL auto-exposure via CdS cell; meter lock; +1.5 EV backlight control; full manual.						TTL auto-exposure via CdS cell; ±2 EV exposure compensation; full manual.		TTL auto-exposure via CdS cell; meter lock; ±1.5 EV backlight control; full manual.			
Shutter:		Rotary type with 220° sector opening and speed of 1/29.5 sec. at 18 fps, 1/39.3 sec. at 24 fps, single frame.		Rotary type with 220° sector opening and speed of 1/29.5 sec. at 18 fps, single frame.				Rotary type with variable sector opening (full, 1/2, 1/4); continuously variable for auto/manual fade-in or fade-out; X-synch at single-frame; 5 filming speeds from 8–54 fps.		Rotary type with 220° sector opening and speed of 1/29.5 sec. at 18 fps, single frame.			
Viewfinder:		SLR type with split-image; scale for f/number; over/under-exposure warning; LED safe-run/battery check, sound recording and film-end signals; manual setting signal; +1 to –4 diopter eyepiece adjustment.						SLR type with split-image; scale for f/number; over/under exposure warning; safe-run and film-end signals; fade indicators; shutter opening indicator; +1 to –4 diopter eyepiece adjustment.		SLR type with split-image; under-exposure warning; manual setting signal; safe-run/battery indicator and film-end signal; +1 to –4 diopter eyepiece adjustment.			
Sound System:		Built-in magnetic head and audio amplifier with Auto Gain Control at two input levels 12 dB apart; FM input; monitoring switch; auxiliary socket.						Synch-sound recording with optional tape recorder.					
Drive System:		Electric micromotor for film transport, shutter operation and power zoom. 2-speed zoom control for XL-Sound 84 only.						Electric micro-motor controlled by 3 transistors for film transport; micro-motor for power zoom via IC for 5 speeds from 2–12 sec.		Electric micromotor for film transport, shutter operation and power zoom.			
Focusing:		to 4 ft., macro range: 84 to 0.04 in. from lens surface.		to 4 ft., macro range: 43 to 0.02 in. from lens surface.		to 4 ft., macro range: 13 to 0.07 in. from lens surface.		to 5 ft., macro range: 16.5 ft. to ¼ in. from lens surface.		to 3.5 ft., macro range: 46 to 4 in. from lens surface.		to 4 ft., macro range: 17 to 4 in. from lens surface.	
Film:		Super-8 sound or silent cartridges; ASA 40 or 160.						Super-8 silent cartridges					
								ASA coupling range: 10–400.		Daylight: ASA 25 or 100. Tungsten: ASA 40 or 160.			
Power Source:		6–1.5V AA batteries.						5–1.5V AA batteries; 7–1.5V AA batteries in hi-speed power pack.		2–1.5V AA batteries.			
Others:		Film supply indicator; electromagnetic release; remote control socket; compact folding handgrip; external LED run light; built-in No. 85 filter; run/lock switch; flexible lens hood; cartridge ejector; tripod socket.						Electromagnetic shutter release; built-in No. 85 filter; X-synch terminal; accessory bracket; movie light socket; tripod socket; folding handgrip.		Electromagnetic shutter release; built-in intervalometer; remote input socket; built-in No. 85 filter; folding handgrip; self-timer.			
Size:		2 <sup>7</sup> / <sub>16</sub> x 6 <sup>3</sup> / <sub>4</sub> x 9 <sup>7</sup> / <sub>16</sub> in.		2 <sup>7</sup> / <sub>16</sub> x 6 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>16</sub> in.		2 <sup>7</sup> / <sub>16</sub> x 6 <sup>3</sup> / <sub>4</sub> x 7 <sup>9</sup> / <sub>16</sub> in.		2 <sup>3</sup> / <sub>4</sub> x 8 x 9 <sup>1</sup> / <sub>4</sub> in.		1 <sup>5</sup> / <sub>8</sub> x 4 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>8</sub> in.		1 <sup>5</sup> / <sub>8</sub> x 4 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>8</sub> in.	
Weight: (without batteries.)		3 lb. 4 <sup>5</sup> / <sub>8</sub> oz.		2 lb. 12 <sup>7</sup> / <sub>16</sub> oz.		2 lb. 8 <sup>9</sup> / <sub>16</sub> oz.		4 lb. 6 <sup>3</sup> / <sub>4</sub> oz.		1 lb. 9 oz.		1 lb. 9 oz.	



# Minolta 110-Format Camera Specifications

	110 ZOOM SLR MARK II	110 ZOOM SLR	470	460TX	450EX	430EX
						
<b>Camera type:</b>	110 single-lens-reflex camera with zoom/macro lens, aperture-priority automatic exposure control and "dedicated" flash system	110 single-lens-reflex camera with zoom/macro lens and aperture-priority automatic exposure control	110 camera with programmed electronic shutter and built-in close-up lens	110 camera with switchable normal & telephoto lenses & built-in electronic flash plus audible exposure warning	110 camera with built-in electronic flash and close-up lens plus audible exposure warning	110-camera with built-in electronic flash plus audible exposure warning
<b>Lens (all glass):</b>	25-67mm f/3.5 to f/16 Zoom Rokkor-Macro; Filter size 40.5mm	25-50mm f/4.5 to f/16 Zoom Rokkor-Macro; Filter size 40.5mm	26mm f/3.5 and f/9	normal: 26mm f/3.5 or f/8 tele: 43mm f/4.7 or f/13.2	26mm f/3.5 or f/8	26mm f/5.6 (fixed)
<b>Shutter:</b>	electronically controlled behind-the-lens metal shutter, 1/1000 to 1/4 sec., electronic "X" (1/125 sec.), B	electronically controlled behind-the-lens shutter, 1/1000 to 10 sec.; mechanical "X" (1/150 sec.), B	electronic, 1/1000 to 2 sec.	mechanical, 1/200 sec.	mechanical, 1/200 sec.	mechanical, 1/200 sec.
<b>Exposure control:</b>	through-the-lens aperture-priority automatic via CdS photo cell; EV 4.6 to EV 18 (ASA 100); $\pm 2$ EV exposure override	aperture-priority automatic via CdS photo cell; EV 1 to EV 18 (ASA 100); $\pm 2$ EV exposure override	programmed EE from EV 2.6 to EV 16.3 with ASA 64 to 400	3-position slide with click-stop Sun (normal: f/8; tele: f/13.2), Cloud (normal: f/3.5; tele: f/4.7) and Flash settings	3-position slide with click-stop Sun (f/3.5), Cloud (f/8) and Flash settings	2-position slide with click-stop Sun (f/5.6) and Flash settings
<b>Focusing:</b>	3.6 ft. to infinity; 7.7 to 34.6 in. in close-up setting	3.3 ft. to infinity; 11.25 to 12.1 in. in close-up setting	continuous slide control: 3 ft. to infinity; 5 zone focusing positions; close-ups at 19 in.	continuous slide control: 3 ft. to infinity; scale focusing in feet and meters	continuous slide control: 3 ft. to infinity; 5 zone focusing positions; close-ups at 19 in.	continuous slide control: 5 ft. to infinity; 3 zone focusing positions
<b>Viewfinder:</b>	 split-image rangefinder in matte screen LED shutter speed indicators LED over/underexposure warning LED flash-ready signal	 microprism in matte screen yellow LED slow speed warning red LED overexposure warning red LED B or X setting warning battery check	 bright frame zone focus symbols low light/use flash lamp close-up setting signal parallax correction marks	 bright frame low light/use flash/flash-ready lamp magnification changed when tele lens is in place parallax correction marks	 bright frame zone focusing symbols low light/use flash/flash-ready lamp close-up lens finder signal parallax correction marks	 low light/use flash/flash-ready lamp
<b>Power source:</b>	two 1.5V silver-oxide batteries (Eveready S-76 or equivalent)	two 1.5 silver-oxide batteries (Eveready S-76 or equivalent)	two 1.5V silver-oxide batteries (Eveready S-76 or equivalent)	one 1.5V AA-size (penlight) battery for both meter and flash	one 1.5V AA-size (penlight) battery for both meter and flash	one 1.5V AA-size (penlight) battery for both meter and flash
<b>Size:</b>	2-15/16 x 4 x 4-1/8 in.	2-1/8 x 4-1/4 x 5-1/4 in.	1-1/16 x 2-3/16 x 4-5/8 in.	1-1/8 x 2-3/8 x 6-9/16 in.	1-1/8 x 2-1/4 x 6-3/8 in.	1-1/8 x 2-1/4 x 6-3/8 in.
<b>Weight (without batteries):</b>	16-3/8 oz.	15-1/8 oz.	6-5/16 oz.	9-7/8 oz.	8-1/4 oz.	8-1/4 oz.
<b>Other features:</b>	shutter speed switches to X-synch when "dedicated" flashes are charged electronic self-timer with LED signal built-in eyepiece blind adjustable viewfinder eyepiece, -1 to +0.7 diopters electromagnetic shutter release locks at low voltage cable release socket tripod socket handgrip attaches to side of camera battery check	finder black-out at low voltage cable release socket tripod socket	lens cover/release lock battery check lamp cable release socket tripod socket neck strap measures close-up distance	lens cover/release lock battery check lamp audible & visible exposure warning illuminated distance scale with flash	lens cover/release lock battery check lamp neck strap measures close-up distance audible & visible exposure warning illuminated distance scale with flash	lens cover/release lock battery check lamp audible & visible exposure warning illuminated distance scale with flash
<b>Flash:</b>	accessory Auto Electroflash 118X**	accessory Auto Electroflash 25**	accessory Pocket Flash 110 (synchs at 1/100 sec.)	built in, pops out for use	built-in, pops out for use	built-in, pops out for use
<b>Maximum guide number (ASA 25, ft.):</b>	30	41	—	—	—	—
<b>Automatic working range (ASA 100):</b> <b>(ASA 400):</b>	f/2: 3.3-30ft., f/4: 2.3-15ft. f/4: 3.3-30ft., f/8: 2.3-15ft.	f/5.6: 2.3-14.75 ft. f/11: 2.3-14.75 ft.	2.6-12 ft. 2.6-20 ft.	<b>Normal Tele</b> 3-13 ft. 3.3-10 ft. 3-21 ft. 3.3-15 ft.	2.6-12 ft. 2.6-20 ft.	4-8 ft. 4.6-13 ft.
<b>Flash duration:</b>	auto: 1/40,000 to 1/3000 sec. manual: 1/3000 sec.	auto: 1/40,000 to 1/2000 sec. manual: 1/2000 sec.	1/5000 sec.	1/5000 sec.	1/5000 sec.	1/5000 sec.
<b>Number of flashes/recycling time**</b> <b>C-Zn</b> <b>AM</b> <b>Ni-Cad</b>	45/9 sec. 200/7 sec. 90/4.5 sec.	70/7 sec. 210/6 sec.	40/10 sec. 120/10 sec. 90/6 sec.	40/10 sec. 120/11 sec. 90/7 sec.	40/10 sec. 120/10 sec.	40/10 sec. 120/10 sec.
<b>Size of flash:</b>	3-15/16 x 2-3/8 x 1-7/8 in.	2-3/16 x 4-1/8 x 2-3/8 in.	1 x 2-3/16 x 2-5/16 in.	—	—	—
<b>Weight of flash:</b>	4-9/16 oz.	5-7/16 oz.	2-1/4 oz.	—	—	—

**Note:** During electronic flash operation with Minolta's Pocket Autopak cameras, the flashmatic system automatically adjusts the lens aperture as the camera is focused for correct flash exposures everytime.

\*As determined by Minolta's standard testing method.  
**Note:** For information on the Minolta Weathermatic-A, see pages G6-G7.

\*\* While any electronic flash unit may be used with the 110 Zoom SLR MARK II and 110 Zoom SLR, the companion flash units listed are recommended for optimum operating convenience.

**NOTE: Specifications subject to change without notice.**

March, 1981

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# Minolta Hi-matic 35mm Camera Specifications

	HI-MATIC AF2	HI-MATIC S2	HI-MATIC G2
<b>Type:</b>	Compact 35mm auto-focus camera with built-in flash	Compact 35mm zone-focus camera with built-in flash	Compact 35mm zone-focus camera
<b>Minolta Lens:</b>	38mm f/2.8	38mm f/2.8	38mm f/2.8
<b>Filter Mount:</b>	46mm	46mm	46mm
<b>Focusing System:</b>	Minolta infrared auto-focus to 3.3 ft.	Zone-focus and ft./m scale to 2.6 ft.	Zone-focus symbols and ft./m scale to 3.3 ft.
<b>Exposure System:</b>	Programmed electronic; measuring range EV 6 to 17, 1/8 sec. at f/2.8 to 1/430 sec. at f/17	Programmed electronic; measuring range EV 6 to 17 1/8 sec. at f/2.8 to 1/430 sec. at f/17	Programmed mechanical; measuring range EV 9 to 17, 1/60 sec. at f/2.8 to 1/250 sec. at f/22
<b>Film Speed Range:</b>	ASA 25-400	ASA 25-400	ASA 25-400
<b>Viewfinder:</b>	Bright frame lines with parallax correction marks, auto-focus zone area, zone-focus symbols with LED indicators, low-light and flash-ready lamps	Bright frame lines with parallax correction marks, zone-focus symbol scale with pointer, low-light and flash-ready lamps	Bright frame lines with parallax correction marks, aperture scale with over/underexposure warning area
<b>Warning System:</b> Low-light use flash	LED + audible tone	LED + audible tone	Aperture scale needle drops to red zone
Close-focus warning	LED + audible tone	—	—
Beyond flash range	LED + audible tone	LED + audible tone	—
<b>Power Source:</b>	2-1.5V AA penlight, AM/C-ZN/Ni-Cad	2-1.5V AA penlight, AM/C-ZN/Ni-Cad	1-1.35V mercury battery
<b>Flash:</b> Number of flashes/ recycling time Guide Number (ASA 100/m)	Built-in pop-up  250/5 sec.  14	Built-in, pop-up  250/5 sec.  14	Accessory  —  —
<b>Other:</b>	<ul style="list-style-type: none"> <li>• Easy-load film system</li> <li>• Safe-load signal</li> <li>• Cancellable focus lock</li> <li>• Self-timer</li> <li>• Shutter locks at low voltage</li> <li>• Flashmatic system</li> <li>• Shutter locks until flash is charged</li> </ul>	<ul style="list-style-type: none"> <li>• Easy-load film system</li> <li>• Safe-load signal</li> <li>• Shutter locks at low voltage</li> <li>• Flashmatic system</li> <li>• Illuminated focus ring</li> </ul>	<ul style="list-style-type: none"> <li>• Flashmatic system</li> </ul>
<b>Size:</b>	5 1/8 x 3 x 2 1/8 in.	5 1/8 x 3 x 2 1/8 in	4 7/16 x 2 7/8 x 2 1/8 in
<b>Weight:</b> (without batteries)	11 3/16 oz.	10 15/16 oz.	10 oz.