

# RICOH SLR SYSTEMS

## Ricoh SLR Systems

Booklet on the current 35mm cameras in 1985

*The Ricoh SLR Series offers a world of choice for everybody from professional photographers to first-time picture takers. The XR-S... the world's first solar-powered SLR camera, the XR7... with similar futuristic capabilities, the KR-10... with automatic and manual versatility, the XR6... with fully-automatic convenience, and the KR-5... with easy-to-use manual control. Made to the highest standards of quality and performance, with the most advanced technology, the award-winning Ricoh SLR Series is acclaimed by the industry and customers every where. For the complete picture, look into this remarkable lineup soon. With Ricoh, you'll discover a whole new world of possibilities.*



*The XR-S, the world's first solar-powered SLR camera, exemplifies Ricoh's most advanced technology. Featuring 5 years performance without changing the storage battery, quartz-controlled manual shutter speeds from 1/1000 16 seconds and aperture-priority AE, multi-informational liquid crystal display viewfinder and other sophisticated capabilities, the XR-S challenges the frontiers of SLR photography.*

# RICOH XR-S

## The World's First Solar-Powered SRL Camera

Aperture-Priority AE and Quartz-Controlled Manual



### Major Specifications

**Type:** 35mm SLR with automatic electronic exposure control focal plane shutter.

**Shutter:** Electronically controlled, vertically moving metal focal plane shutter Automatic from 16 to 1/1000sec.  
Manual from 16 to 1/1000sec. by Quartz Control (manual only) plus B. Shutter locks at "L" position.

**Viewfinder:** Field of view covers 93% horizontally and vertically.  
viewing magnification 0.88X (with 50mm f/1.4 lens).

Display by LCD (Liquid Crystal Display): Exposure Compensation.

Bulb. Manual, Overexposure Underexposure Shutter Speed indicator (pulsates when on AE lock).

Battery Warning (when battery nearly exhausted). Flash Ready LED Light, F-Stop Number.

**Exposure Meter:** TTL full open metering SPD (SILICON PHOTO DIODE) for center-weighted average light reading coupled automatically to f-stop.

**Exposure Coupling Range:** EV 0- EV 18 (with ASA 100 film, 50mm f/1.4 lens)

**Film Speed Range:** ASA 12-3200

**Exposure Adjustment:** Exposure adjustment system ( + 2 - - 2, in 1/3 steps).  
AE Lock System (Memory).

**Self-Timer:** Operating delay 10 seconds; during operation, the red LED light pulsates and an electronic sound

**Power Source:** Solar battery recharges the storage rechargeable battery (Battery-S). [www.butkus.org](http://www.butkus.org)  
Other batteries usable: two SR-44 1.55V Silver Oxide batteries, or two LR-44  
1.5V Alkaline batteries.

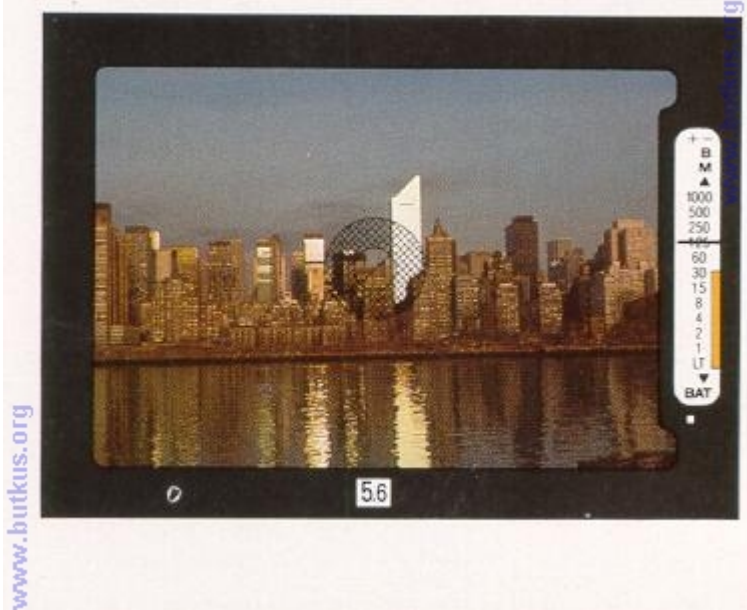
**Other Features:** Multi-exposure, Preview lever

**Dimensions:** 136(W) x 89(H) x 51(D)mm (Body only)

**Weight:** 475g (16.8oz) (Body only)

\* Specifications are subject to change without notice.

[Mike: as you can see this is a needle system. Choosing a shutter speed and aperture you just have to keep the shutter speed arm above whatever speed you can hand hold (usually 1/60 sec.) and you have an exposure]



# RICOH XR7

## The Clear Choice in Shooting for Perfection

Aperture-Priority AE and Quartz-Controlled Manual



### Major Specifications

**Type:** 35mm SLR with automatic electronic exposure control focal plane shutter.

**Shutter:** Electronically controlled, vertically moving metal focal plane shutter.  
Automatic from 16 to 1/1000sec. Manual from 16 to 1/1000sec. plus B

**Viewfinder:** Field of view covers 93% horizontally and vertically.  
viewing magnification 0.88X (with 50mm f/1.4 lens).

**Display by LCD (Liquid Crystal Display):**

**Exposure Compensation. Bulb. Manual Overexposure Underexposure**

**Shutter Speed indicator (pulsates when on AE lock).**

**Battery Warning (when battery nearly exhausted).**

**Flash Ready LED Light, F-Stop Number.**

**Focusing:** Diagonal split image spot in microprism band surrounded by Fresnel field

**Exposure Meter:** TTL full open metering for center-weighted average light reading coupled automatically to f-stop.

**Exposure Coupling Range:** EV 0 - EV 18 (with ASA 100 film, 50mm f/1.4 lens)

**Film Speed Range:** ASA 12-3200

**Exposure Adjustment:** Exposure adjustment system ( + 2 - - 2, in 1/3 steps)  
AE Lock System (Memory)\_\_\_

**Self-Timer:** Operating delay about 10 seconds.  
During operation the red LED light pulsates and an electronic sound is emitted.

**Power Source:** Two SR-44 1.55V silver oxide batteries \_\_\_  
Two LR-44 1.5V alkaline batteries.

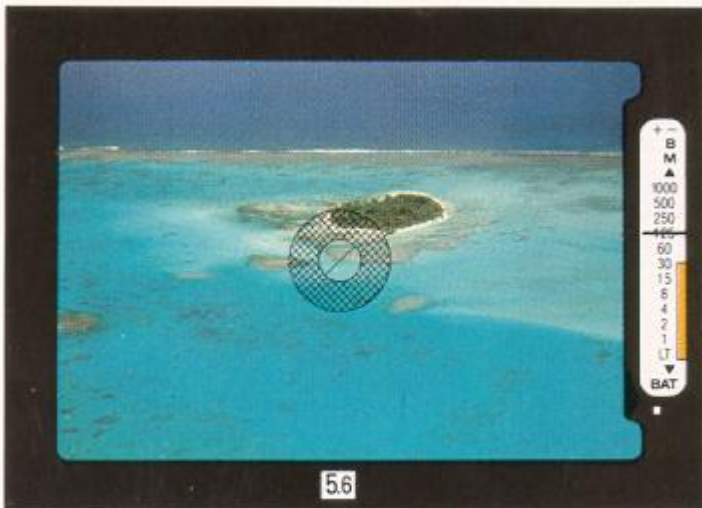
**Other Features:** Multi-exposure Preview lever

**Dimensions:** 136(W) x 86(H) x 51(D)mm (Body only)  
5 3/8" x 3 3/8" X 2 1/8"

**Weight:** 470g (16.6oz) (Body only)

\* Specifications are subject to change without notice.

[Mike: as you can see this is a needle system. Choosing a shutter speed and aperture you just have to keep the shutter speed arm above whatever speed you can hand hold (usually 1/60 sec.) and you have an exposure]





# RICOH KR-10

## The Clear Choice in Shooting for Perfection

Aperture-Priority AE and Manual



### Major Specifications

**Type:** 35mm aperture priority AE (automatic exposure)

**Shutter:** SLR with electronic metal focal plane shutter

Vertically moving Copal CCS-E electronically controlled metal focal plane shutter

Automatic electronic shutter: continuously variable speed from LT (approx. 8 sec. to 1/1000sec.).

Manual electronic shutter: stepped speed from 4 to 1/1000sec.

Manual mechanical shutter: "B" and "X" (1/90 sec.)

**Viewfinder:** Fixed eye-level pentaprism

Shutter speeds, "A" (automatic), "B" (bulb), "X" (1/90 sec.)

Exposure meter needle Shutter speed indicator

Viewing magnification: 0.83X Field of view covers 93% of actual picture area

**Focusing:** Diagonal split image spot in microprism band surrounded by Fresnel field

**Exposure Meter:** Three CdS photocells TTL full open metering for center-weighted average light reading coupled to aperture priority automatic exposure system

**Exposure Coupling Range:** EV 3-17 (ASA 100 film with 50mm f/1.4 lens)

**Film Speed Range:** ASA 12-3200 (DIN 12-36)

**Power Source:** Two 1.5V silver-oxide batteries (JIS G13, Mallory MS76 Eveready S76 or equivalent) —

**Other Features:** Plus/minus 2-stop exposure compensation dial  
(+2, +1, - 1, -2), Self-timer, Automatic exposure lock button

**Dimensions:** 140(W) x 91 (H) x 50(D)mm (Body only)  
5 1/2" x 3 5/8" x 2"

**Weight:** 545g (19.3oz) (Body only)

**\* Specifications are subject to change without notice.**



[MIKE: as you can see this is the match needle system. Have the green lever overlap the thin pointer, you have an exposure]

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# RICOH XR6

**The Fully-Automatic Full-Featured SRL  
Aperture-Priority AE**



## Major Specifications

**Type:** 35mm aperture-priority AE (automatic exposure)  
SLR with electronic metal focal plane shutter

**Shutter:** Vertically moving COPAL CMS-EM electronically controlled metal focal plane shutter. Automatic electronic shutter, continuously variable speeds from 1 to 1/1000sec., plus B, X

**Viewfinder:** Fixed eye level pentaprism  
LEDs display: Overexposure warning mark  
Correct exposure mark (which flickers when shutter speed slower than 1/50 sec.)  
Underexposure warning mark  
Flash-ready mark  
Viewing magnification 0.88X or more (with 50mm standard lenses)  
Field of view covers 90% of the actual picture area...

**Focusing:** Diagonal split image spot in microprism band surrounded by Fresnel field

**Exposure Meter:** One SPD TTL full open metering for center weighted average light reading coupled to aperture-priority automatic exposure system

**Exposure Coupling Range:** EV 4-16 (ASA 100 film with 50mm f/1.4 lens)

**Power Source:** Two SR-44 1.55V silver oxide batteries \_\_\_  
Two LR-44 1.5V alkaline batteries.

**Other Features:** Self-timer lamp (red LED) and electronic sound

**Dimensions:** 136(W) x 86(H) x 51(D)mm (Body only)  
5 1/8 " x 3 3/8" x 2 1/8"

**Weight:** 460g (160z) (Body only)

**\* Specifications are subject to change without notice.**

[Mike: as you can see this is an LED metering system. When the center "O" is light, the exposure is correct.]





# RICOH KR-5 SUPER

## The Simple Choice for Super Photographers

Manual Exposure Control and 1/1000 Shutter Speed



## Major Specifications

**Standard Lens:** 50mm XR RIKENON F-2.0 6 elements in 5 groups

**Shutter:** Vertically moving Copal CCS metal focal plane shutter,  
variable from 1/8 see to 1/1000 see plus B

**Viewfinder:** Fixed eye-level pentaprism

Exposure meter needle and shutter speed needle visible.

Field of view 93%, Magnification 0.83X

Flash ready LED visible on the viewfinder frame

Diagonal split-image stop in microprism-image band surrounded by fresnel field

**Exposure Control:** Match Needle system...

**Exposure System:** Two CdS photocells TTL full open metering for center weighted  
average light reading coupled to shutter speed, F-stop and film speed

**Exposure Coupling Range:** EV 4-18 (ASA 100 film with 50mm F/1.4 lens)

**Film Speed Range:** ASA 12-3200

**Flash Synchronization:** X synchronization for cordless electronic flash unit at 1/8-1/125 sec. and "B"  
With Ricoh Speedlite 240 and 180 Flash Ready LED on  
the viewfinder frame lights up when the flash is charged

**Film Wind:** Single Stroke film advance lever with 135° winding angle (40° stand off angle)

**Self-Timer:** Mechanical self-timer with LED display

**Other Feature:** Hot shoe, ASA/DIN dial lock, Cable release socket,  
Shutter release lock (with film advance lever),  
Exposure meter switch (with film advance lever)

**Size:** 140 x 91 x 48mm (5 1/2 x 3 5/8 x 1 7/8 inch)

**Weight:** 540g (Body only) 19 oz

**Batteries:** Two SR44 1.55V silver oxide batteries  
Two LR-44 1.5V alkaline batteries

**\* Specifications are subject to change without notice**

[Mike: as you can see this is a match needle system. Make the arm with the circle overlap the straight arm by changing the shutter speed or aperture and you have a correct exposure.]



# RICOH KR-5

**The Family SLR for Easy Picture taking**  
**Manual Exposure Control**



## **Major Specification**

**Type:** 35mm SLR with metal focal plane shutter  
Vertically moving Copal CCS metal focal plane shutter  
with speeds from 1/8 to 1/500sec. plus B

**Viewfinder:** Fixed eye-level pentaprism  
Exposure meter needle and shutter speed needle visible

**Focusing:** Diagonal split-image spot in microprism-image band surrounded by Fresnel field

**Exposure Meter:** Two CdS photocells TTL full open metering for center-weighted  
average light reading coupled to shutter speeds, film speeds and f-stops

**Exposure Coupling Range:** EV 5.3- 17 (ASA 100 film with 55mm f/2.2 lens)

**Film Speed Range:** ASA 12 - 3200 (DIN 12-36)

**Power Source:** Two 1.5V silver oxide batteries (JIS G13, Mallory  
MS76 Eveready S76 or equivalent) \_

**Other Features:** Self -timer  
Hot shoe  
Shutter release lock (with film advance lever)  
Meter on/off switch (with film advance lever)  
ASA/DIN dial lock\_

**Dimensions:** 140(H) x 91(H) x 50mm (5 1/2 X 3 5/8 x 2 inch (Body only)

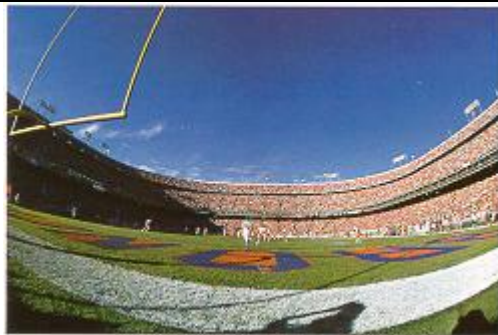
**Weight:** 540g (19.1oz) (Body only)

**\* Specifications are subject to change without notice.**

[Mike: as you can see, this is a needle match system. Have the arm with the circle overlap the straight arm, by changing the shutter speed or aperture, and you have a correct exposure]



# RICOH XR RIKENON LENS



**SUPER WIDE-ANGLE LENS**

**16mm f/2.8 Fish Eye** *The 180° fish-eye perspective dramatically emphasizes angles in architecture and interior scenes, faces and breathtaking outdoors subjects.*



**18mm f/2.8** *This super wide-angle lens with its 100° angle of view opens up a world of creative possibilities in a super wide range of applications.*



## WIDE-ANGLE LENS



**24mm f/2.8** With its excellent perspective, optimum size and weight, photographers are more and more finding this the ideal wide-angle lens.



**28mm f/2.8** This popular wide-angle lens is ideal for expansive outdoor scenes, architecture, indoors in limited spaces and also provides eye-catching close-ups down to 30 cm.

# RICOH XR RIKENON LENS

## Wide-Angle Lens and Tele-Converter



**35mm f/2.8** In addition to its many wide-angle capabilities, this lens provides a more natural perspective for normal photography and focuses down to 35cm for close-ups.



**XR Tele Converter 2X** Designed for K-mount SLRs, the economical 2X tele-converter precisely fits "between the camera body and lens to effectively double the focal length..."

## Standard Lens



**50mm f/1.4, f/1.7, f/2.0** With an angle of view and perspective similar to the human eye, these standard lenses - with exceptional speed, versatility and value - are made for normal photography.

### Standard Lens



**AF 50mm f/2.0** This epoch-making lens turns any K-mount SLR into an auto-focusing camera. Just point and shoot for consistently sharp, clear pictures.

# RICOH XR RIKENON LENS



**135mm f/2.8** Often the first choice in telephotos, this fast, easy handling lens handles a variety of subjects from portraits to sports and beyond.

## Telephoto Lens



**200mm f/4.0** The longer focal length of this surprisingly compact telephoto lens puts you right on target for fast action sports, wildlife and other far-reaching subjects.



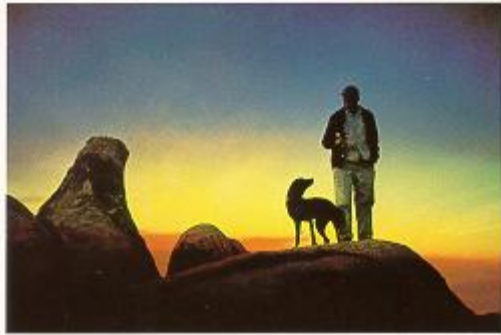
**300mm f5/4.5 APO** Surprisingly fast and well balanced, this telephoto lens lets you reach out and bring in distant subjects with the greatest of ease.



**600mm f/8 Reflex** This super telephoto lens, with fixed aperture and smooth-handling design, closes the distance in subjects normally out of our reach.



# RICOH XR RIKENON LENS



**35-70mm f/3.5** This wide-angle to normal to portrait telephoto zoom offers macro focusing to 30cm - an amazingly versatile lens.



**70-150mm f/4.0** This portrait to telephoto zoom lens pulls in distant subjects, yet has macro focusing to 64cm.

XR RIKENON LENSES FOR XR/KR SERIES

	APERTURE RANGE	LENS GROUP	LENS ELEMENTS	MIN. FOCUS (m)	ANGLE OF VIEW	FILTER SIZE (mm)	NET WEIGHT(GR.)	DIMENSIONS (mm) RADIUS LENGTH
16mm FISH EYE (MC)* W/CASE & HOOD (FIXED) FILTERS BUILT-IN	2.8-22	8	9	0.15	180°	22.5 (built-in)	300	66 x 50
18mm (MC)* W/CASE & HOOD (FIXED)	2.8-22	9	11	0.25	100°	67	348	76 x 71
24mm (MC)* W/CASE & HOOD	2.8-22	7	7	0.18	84°	52	320	64 x 39
28mm (MC)* W/CASE & HOOD	2.8-16	7	7	0.3	76°	52	190	63 x 42
35mm (MC)* W/CASE & HOOD	2.8-22	6	6	0.35	63°	52	190	63 x 42
135mm (MC)* W/CASE & HOOD BUILT-IN	2.8-22	4	4	1.5	18°	55	440	66 x 81
200mm (MC)* W/CASE & HOOD BUILT-IN	4.0-22	5	5	2.5	12°	55	610	66 x 122
300mm APO (MC)* W/CASE & HOOD	4.5-22	5	8	2.5	8°	67	1,050	74 x 193
600mm REFLEX (MC)* W/CASE & HOOD FILTERS BUILT-IN	B(FIXED)	6	6	2	4°	22.5 (back-mounted)	820	92 x 121
35-70mm ZOOM WITH MACRO (MC)* W/CASE	3.5-22	7	7	0.8(0.3)*	63°-34°	58	345	68 x 70
70-150mm ZOOM WITH MACRO (MC)* W/CASE	4.0-22	10	13	1.5(0.6)**	34°-16°	52	465	64 x 112
50mm AUTO FOCUS	2.0-16	5	6	0.8(1.0)***	45°	52	324	77 x 110 x 43

\* : MULTI COATED

\*\* : MINIMUM FOCUSING DISTANCE IN MACRO RANGE

\*\*\*: MINIMUM FOCUSING DISTANCE AT AUTO FOCUS

# ACCESSORIES



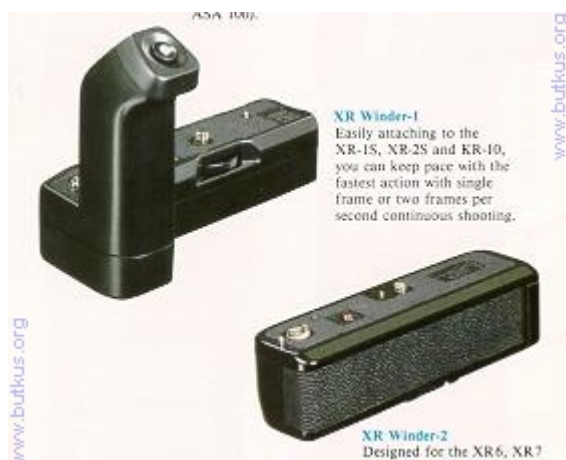
**XR Speedlite 240**  
This lightweight, compact, automatic flash unit provides the right light from 1—4.3m (3.3—14.2ft). Guide number is 24m/80ft (f/5.6 ASA 100).

**XR Speedlite 180**  
Even lighter and more compact, this automatic flash unit provides sure-fire performance from 0.8—4.5m (2.6—15ft). Guide number is 18m/60ft (f/4 ASA 100).

## **Kit Speedlite 240**

This lightweight, compact, | automatic flash unit provides the right light from 1—4.3m (3.3 - 14.2ft). Guide number is 24m/80ft (f/5.6 ASA 100).

**XR Speedlite 180** Even lighter and more compact, this automatic flash unit provides sure-fire performance from 0.8— 4.5m (2.6 - 15 ft.)). Guide number is 18m/60ft (f/4 ASA 100).



**XR Winder-1**  
Easily attaching to the XR-1S, XR-2S and KR-10, you can keep pace with the fastest action with single frame or two frames per second continuous shooting.

**XR Winder-2**  
Designed for the XR6, XR7

**XR Winder-1** Easily attaching to the 7 XR-1S, XR-2S and KR-10, f you can keep pace with the fastest action with single frame or two frames per second continuous shooting.

**Winder-2** Designed for the XR6, XR7 and XR-S, this easy handling winder fires off single **frames or two frames** per second continuously.



**XR Data Back Riquartz** The Data Back Riquartz gives XR-S, XR7 and XR6 owners a unique stopwatch capability, along with timer, calendar and printing functions. This expands versatility.

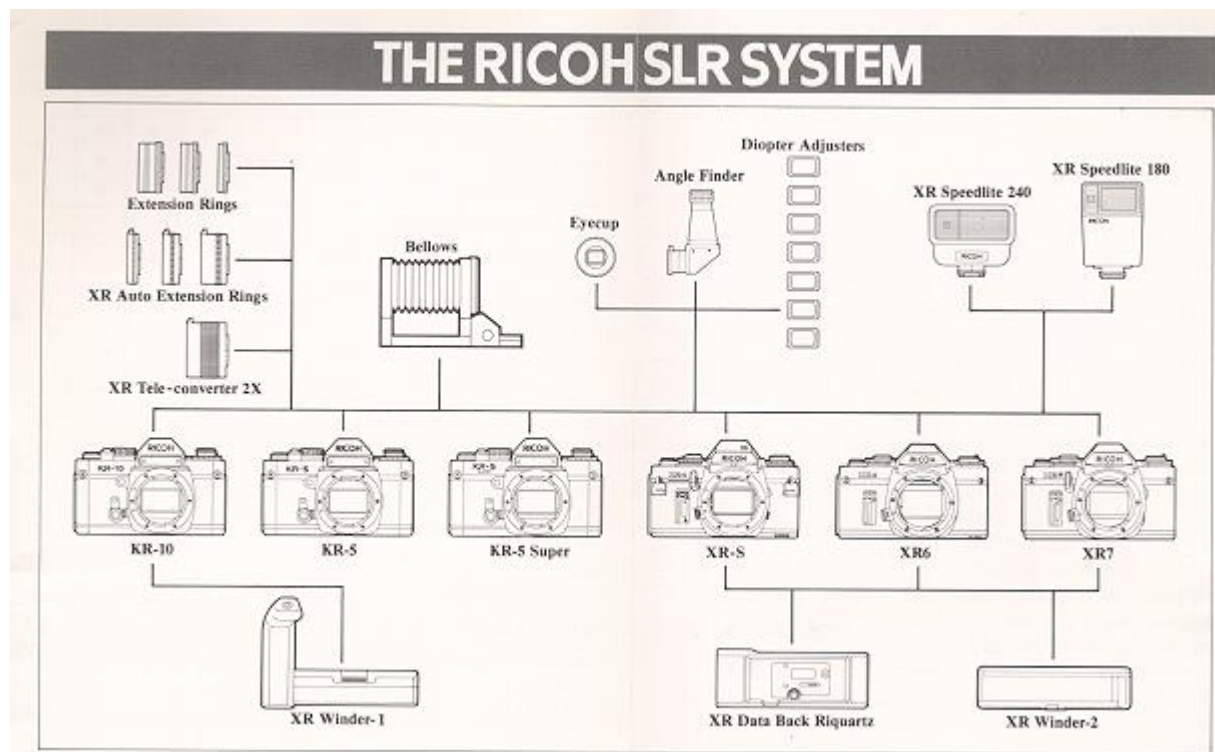
# Who is Ricoh?

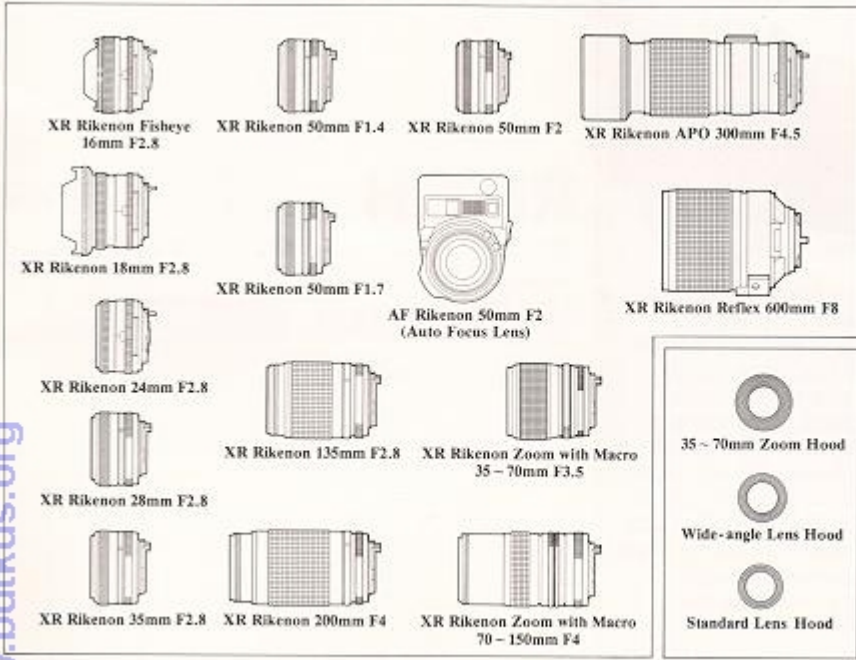
Ricoh Co., Ltd. is one of Japan's largest, experienced and diverse manufacturers. With over 16,000 employees in Japan and abroad, as well as overseas branches in the USA, Europe and Asia, Ricoh has the total capability to develop, produce and sell a wide range of products. Ricoh is perhaps best known for its advanced information handling systems. A full line up of office automation that includes minicomputer data processors, word processing equipment, copying machines, a telephone facsimile transceiver, data retrieval equipment and more. Ricoh is also one of the largest producers of LSI circuits and other sophisticated electronics.

With this kind of technological expertise, it's not surprising that Ricoh also makes some of the world's finest photographic equipment. Ever since the introduction of the Olympic 35mm camera in 1938, Ricoh has been responsible for countless innovations and renowned for Total Quality Control. Chosen the official camera of the 1964 Tokyo Olympics, awarded the esteemed Deming



Prize for outstanding quality of all products in 1975, and presented the prestigious Good Design Mark by Japan's Ministry of Trade and Industry for the XR Series is the kind of recognition that attests to Ricoh's standards of quality and performance. The new Ricoh KR-5 Super, like all Ricoh products, is clearly indicative of why Ricoh Co., Ltd. has been "earning the trust of customers through quality" for more than 40 years.





Comparison of Main Features

	KR-5	KR-5 SUPER	XR6	KR-10	XR7	XR-S
Aperture-priority AE			•	•	•	•
Manual	•	•		•	•	•
LCD viewfinder information					•	•
LED viewfinder information			•			
Match-needle viewfinder information	•	•		•		
CdS photocell	•	•		•		
SPD photocell			•		•	•
Shutter release LED		•				
1/125 Sec. flash synchro		•		•	•	•
Electromagnetic shutter release			•		•	•
Exposure compensation ±2EV			•	•	•	•
AE lock system					•	•
Multi-exposure					•	•
Self-timer	•	•	•	•	•	•
Depth-of-field preview					•	•
Accepts auto winder			•	•	•	•
Accepts data back			•		•	•
Dedicated electronic flash system		•	•	•	•	•
Solar battery						•
PC terminal			•		•	•