

**KOWA
SUPER**



Professional Medium Format SLR





Kowa Super 66 Camera with Folding Viewfinder 12/24 Magazine, and 85mm f/2.8 Automatic Lens. Catalog No. 660-101

CONCEPT

The Kowa Super 66 is a fast-handling 2¼x2¼" single-lens reflex camera with modular design, permitting instant interchangeability of magazines, lenses, viewfinders, and focusing screens. Human-engineered operating controls offer maximum simplicity and convenience. Integrated accessory system includes specialized aids for virtually any photographic assignment.

FORMATS

Standard 12/24 roll film magazine provides full 2¼x2¼" (56x56mm) format, gives 24 exposures with 220 film, 12 exposures with 120 film. Optional 16/32 magazine provides 1 5/8"x2¼" (42x56mm) format, corresponding most closely to proportions of standard 4x5", 8x10" and 16x20" enlargements; provides 32 exposures on 220 film, 16 exposures on 120. Polaroid™ magazine provides 8 2¼x2¼ exposures on standard pack type Polaroid™ film.



INTERCHANGEABLE AUTOMATIC LENSES IN SHUTTERS

Perhaps nowhere is the almost incredible versatility of the Kowa Super 66 system so dramatically revealed as in the realm of interchangeable lenses. Reflecting the innovative skills acquired over decades of practical experience in making sophisticated optical systems for industrial, medical/scientific, video, and motion-picture applications, Kowa engineers have created an integrated system consisting of ten automatic lenses from 19mm to 500mm.

Four *wide angle* lenses are available: a remarkable 19mm f/4.5 fisheye (by far the widest focal length offered for 2¼x2¼" cameras) a 35mm f/4.5; a 40mm f/4.0; and a compact, relatively fast 55mm f/3.5. *Standard lens* is an 85mm f/2.8 incorporating air spacing to optimize performance. The Kowa 110mm f/5.6 *macro lens* allows direct helical focusing to 30" from film plane, and is computed for maximum flatness of field and edge-to-edge resolution. Four Kowa *telephoto lenses* presently exist: an unusually compact, lightweight 150mm f/3.5; a superbly resolving 200mm f/4.5; a still compact 250mm f/5.6; and a space conquering

500mm f/8 (which becomes an automatic 1000mm lens in conjunction with the Kowa optical image magnifier.) Each Kowa lens features a fully automatic diaphragm always at maximum aperture except for the actual exposure; a convenient preview lever allows depth-of-field examination at any time.

A welcome advantage in literally scores of applications is the precision ten-speed Seiko leaf shutter. This reliable, between-the-lens metal shutter offers speeds from 1 to 1/500 second plus 'T' with full synchronization for electronic or conventional flash of any kind at any speed.

Parallel, equidistant shutter and aperture controls permit simultaneous changes in lens opening and shutter speed, while retaining same exposure value; yet, either control is individually adjustable at any time. Integral 10-second self timer assures maximum stability in macro/micro and ultra telephoto applications, by closing down diaphragm and raising mirror and light shield at the beginning of operational cycle. Offering greater reliability, accu-

racy, and synchronization capability than cloth shutter types, these precision Seiko shutters represent still another significant advantage of the Kowa Super 66 system.

For ultimate protection, each Kowa Super 66 lens (except standard lens) is supplied with a custom carrying case.

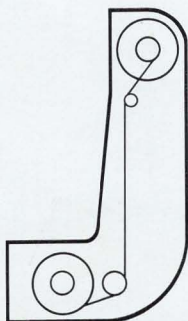
INTERCHANGEABLE MAGAZINE SYSTEM

A significant innovation in interchangeable magazine concepts, Kowa Super 66 film magazines require no dark slide. An automatic light shield protects film from exposure when either lens or magazine is removed. Magazine removal takes place in seconds. Equally beneficial, the L-shaped film path, unique among roll film magazines, avoids excessive film 'buckling' and stress during rapid transport, as well as eliminating



Instantly-Detachable Film Magazine

the tendency for roll film to curl and 'set' when left in the magazine for extended intervals. Each Kowa roll film magazine accepts both 120 and 220



Film Path of Kowa Super 66

roll film through an easily made movement of pressure plate and exposure counter controls. Loading of magazines may be done on or off camera. Each

KOWA AUTOMATIC LENSES IN SHUTTERS FOR KOWA SUPER 66

Cat. No.	Focal Length	Aperture Max.	Aperture Min.	Angle of View	Min. Focus	Length	Diameter	Weight	No. of elements/groups		Filter Size
661-250	19mm†	f/4.5	f/22	180°	14.5"	6.6"	5.4"	77 oz.	14	9	37.5mm*
661-252	35mm	f/4.5	f/32	98°	14.5"	3.9"	4.0"	25 oz.	10	8	33mm*
661-254	40mm	f/4.0	f/32	90°	14.5"	4.2"	4.0"	34 oz.	9	7	33mm*
661-256	55mm	f/3.5	f/22	72°	17.5"	3.9"	3.2"	25 oz.	8	7	67mm
661-258	85mm	f/2.8	f/22	50°	29.0"	2.5"	3.2"	17.5 oz.	5	4	67mm
661-260	110mm	f/5.6	f/32	40°	30.0"	3.2"	3.2"	24 oz.	5	4	67mm
661-262	150mm	f/3.5	f/22	29.5°	55.5"	3.3"	3.2"	24 oz.	5	4	67mm
661-264	200mm	f/4.5	f/32	22°	96.0"	4.5"	3.2"	29 oz.	5	4	67mm
661-266	250mm	f/5.6	f/32	18°	11.8'	5.6"	3.2"	28 oz.	6	5	67mm
661-268	500mm†	f/8.0	f/45	9°	26.0'	12.6"	4.1"	69 oz.	7	6	95mm**

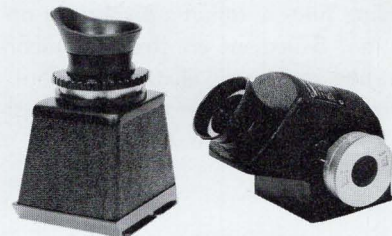
*Supplied with square gelatine filter holder ** Supplied with Lens Hood. †Supplied with Lens Holder All Kowa Super 66 lenses (except standard 85mm lens) supplied with carrying case.

magazine incorporates a film type reminder slot, accepting standard 120/220 roll film carton end tabs, as well as a highly legible exposure counter. An automatic interlock prevents advancing film if shutter has not been fired. For instant preview of lighting and perspective, Kowa's Polaroid™ magazine accepts standard Polaroid type 105, 107 and 108 film packs providing 8 2¼x2¼" exposures in color black and white, or on B&W Print/Negative film—a decisive benefit to professional photographers.

INTERCHANGEABLE VIEWFINDER SYSTEM

Seven precision Kowa viewfinder options allow individual selection of finder best suited to photographer and subject. The standard *Folding Hood* opens and closes with convenient one hand touch. The built-in magnifier accepts six optional diopter inserts for maximum viewing/focusing accuracy. Kowa *Critical Magnifier* provides complete shield against extraneous light, includes convenient folding rubber eyecup. This finder, long favored for studio work, enables continuous diopter selection from -4 to +3. Two Kowa *pentaprism viewfinders* offer an unreversed, laterally correct eye level image at either a

45° or 90° angle depending on model selected. Of particular benefit to available light workers are the two Kowa *Meter/Finder* options: a 45° viewing angle pentaprism and a chest level *Critical Magnifier*. Both *Meter/Finders* allow TTL readings either at open or stop-down aperture, and offer the remarkably wide sensitivity range of 32, 768:1

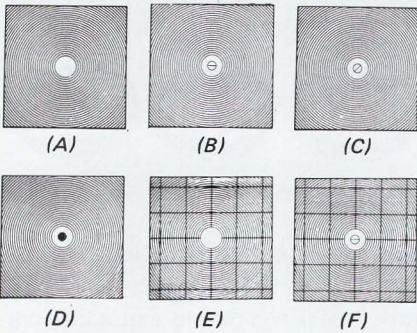


Kowa Critical Magnifier and Pentaprism Meter/Finder

(EV 2-17 with ASA 100 film) The Kowa *Sportsfinder* is an excellent aid to news and action photography permitting both eyes open eye level viewing for 55mm, 85mm, and 150mm lenses with an accurate parallax correction control. Easily interchanged with in moments, these precision viewfinder systems further enhance the intrinsic ability of the Kowa Super 66 camera to tailor itself to specialized individual requirements becoming, in effect, an extension of the photographer's eye.

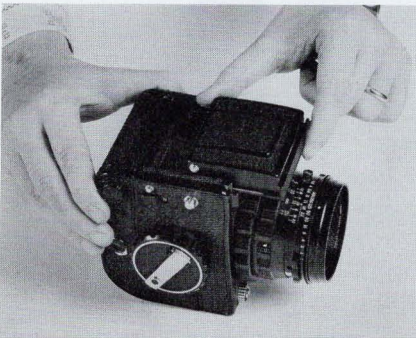
INTERCHANGEABLE FOCUSING SCREENS

Six individual focusing screen types bring even greater versatility to Kowa Super 66 owners. The *Plain Matte* (A) screen provides brilliant, accurate focusing with standard and telephoto lenses. The optional *Horizontal Split-Image* (B) screen simplifies focusing with wide angle lenses, and for many users with lenses of other focal lengths, particularly in dim light. Alternatively the *Diagonal Split-Image* (C) screen is often preferred when subject does not include pronounced vertical material.



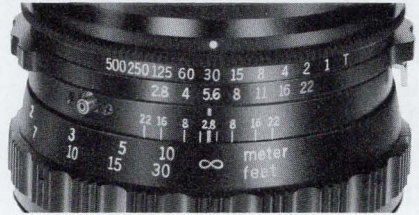
The *Microprism screen* (D) is especially valuable with medium and long focal length lenses, and delineates the point of optimum sharpness more decisively than matte screens. For architectural, copy and creative multiple exposure work, two Kowa screens are supplied with *engraved reference lines* at 11mm intervals: one with plain matte center spot (E) and one with horizontal split-image rangefinder (F). All Kowa Super 66 screens are easily interchanged in seconds.

OPERATION/CONTROLS



Removal of Viewfinder of Kowa Super 66

Kowa Super 66 offers logical, 'human-engineered' operating controls to optimize handling speed. The extra large *Transport Knob* contains a fold out handle, and advances film, winds shutter positions mirror and light shield, and counts exposures in a fast 1-1/3 turn. (A built-in ratchet mechanism allows any desired number of shorter strokes as well.) Oversize, distinctively finished *shutter* and *aperture controls* allow fast, accurate selection of desired



Controls of Kowa 85mm Lens

settings. Aperture rings have full and intermediate click stops for precise aperture selection. Distance, depth-of-field, shutter and aperture settings are all located in the same position, and are all visible *at a glance* a vitally important feature in professional work. An automatic magazine/body interlock prevents blank frames and unwanted double exposures yet, by simply moving the multiple-exposure switch (equipped with a safety lock) any desired number of exposures may be superimposed on a single frame without removal of back or other time-consuming operations. The shutter release is threaded for standard cable releases, and contains a lock to prevent unintentional exposures. Loading all Kowa interchangeable film magazines is exceptionally rapid, as the magazine need not be removed from the body unless desired. When loading, simply aligning two arrows on the film leader positions the film for automatic 'stop' at the first frame, and all succeeding frames (when advanced) as well. Large, positive-locking controls allow instant removal of lens, viewfinder focusing screen, and magazine when desired. For maximum security Kowa grips, flash brackets, and tripod mounts screw into the threaded accessory shoe on the camera side.

OTHER SYSTEMS COMPONENTS

Flash Accessory Group

Kowa *Flash Bracket* attaches rigidly to camera with two point support (tripod socket and accessory shoe) for maximum stability even with heavy professional flash units. Accepts standard Honeywell or Graflex Quick-Release clamps. Cat. No. 663-357

Locking PC Cord has right angle, parallel blade plug for virtually all flashes. Screws into PC Terminal Coiled, extends to 60" with molded strain relief design for maximum reliability Cat. No. 760-214.

Macro/Micro Group

Kowa *Auto Bellows* with Double Cable Release provides continuously variable extensions from 1X (life-size) to 3X with 85mm lens, 0.7X-2X with 110mm macro lens. Independent front and rear standard focusing controls with positive



*Kowa Auto Bellows
with Double Cable Release*

locks. Focusing rail permits moving entire assembly for critical focusing at predetermined magnifications. Front standard allows vertical tilt (20° front or back) 15mm rise/fall. Double Cable Release (supplied) maintains automatic diaphragm operation irrespective of extension. Cat. No. 663-424

Kowa *Automatic Extension Tubes* are available in three lengths: 75mm (Type T1), 32mm (Type T2) and 16mm (Type T3) Tubes may be used individually or in any combination of two. 75mm tube (Model T1 provides 1X life-size) magnification with 85mm lens, 0.9X magnification with 110mm macro lens. Retains fully automatic



Kowa Automatic Extension Tubes

diaphragm control. Cat. Nos. Type T1 663-420 Type T2, 663-421 Type T3, 663-422.

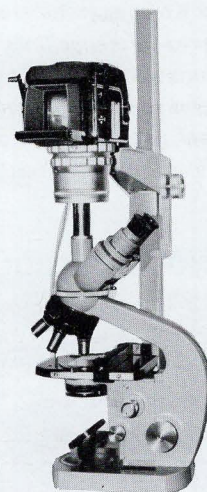
Kowa *Close-Up Lenses* Nos 1 2, and 3 may be used with all lenses accepting 67mm screw-in accessories, either individually or in any combination. Magnification range with 85mm lens: 0.32X.



Kowa Coated Close-up Lenses

with No. 1 0.23X with No. 2, 0.19X with No. 3. Coated optical glass construction. Requires no exposure compensation. Cat. Nos: No. 1 663-426, No. 2, 663-427 No. 3, 663-428.

Kowa *Microscope Adapter* with shutter permits photomicrography to unlimited magnifications with any standard microscope (25mm diameter tube) May be



Kowa Super 66 in Photomicrography

used with or without ocular of microscope. 10-speed Seiko leaf shutter allows precise speed control. Cat. No. 663-359.

Viewing/Focusing Group

Rapid Focusing Handle attaches to all Kowa Super 66 lenses, allows extremely fast focusing, even when wearing gloves. Particularly valuable for news, sports and wildlife photography. Cat. No. 663-353.

Eyepiece Magnifier Lenses for standard (waist level) viewfinder are available in eight strengths: +1 +2, and +3 for farsighted users, -1 -2 (supplied as standard equipment) -3, and -4 for nearsighted workers. A zero diopter lens is also available. Cat. Nos: +1 663-345, +2, 663-346 +3, 663-347 -1 663-343, -2, 663-342 -3, 663-341 -4, 663-340, 0, 663-344.

Lens Accessory Group

Kowa Optical Image Magnifier provides effective 1000mm focal length with 500mm lens, 500mm focal length with 250mm lens. This highly sophisticated optical 'module' receives and magnifies the image transmitted by the master lens, projecting it onto the film plane with a magnification factor of 2:1—twice original size. Retains all automatic camera and lens control couplings including fully automatic diaphragm operation. 6-element construction incorporating rare earth elements for optimum color correction throughout visible spectrum. Cat. No. 661-285.

Kowa Lens Holder for 250mm lens offers extra stability and support, threaded for tripod mounting. Supplied



Kowa Lens Holder for 250mm Lens

with Kowa 19mm fisheye and 500mm ultra-telephoto lenses, optional for 250mm or other lenses. Cat. No. 663-360

Kowa Lens Hoods provide extra protection against flare, and are constructed of lightweight metal. There are four basic types: custom for 55mm f/3.5 lens; basic for 110mm, 150mm and 200mm, for 250mm; and a



Kowa Lens Hoods

convenient folding rubber type for the 85mm standard lens. Cat. Nos: for 55mm f/3.5, 663-405; folding type for 85mm, 663-402; for 110mm/150mm/200mm, 663-406; for 250mm lens, 663-403.

GENERAL ACCESSORIES

Kowa Adjustable Hand Grip/Release allows stepless selection of grip angle, permits trigger action shutter control. With security strap. Cat. No. 663-352.

Kowa Quik-Load Tripod Mount permits interchange of film or magazine on any size tripod platform. Cat. No. 663-358.

Kowa Neckstrap molded of tough, durable vinyl material, bayonet mount safety hooks with positive locks. Cat. No. 663-355.

Kowa Carrying Case offers valuable protection for camera with folding hood and 85mm or 110mm lens attached. Hinged front section for quick access. Cat. No. 663-365.

DIMENSIONS/WEIGHTS

Body only: 5.5"x5"x4.4" with standard lens, 5.5"x5"x6.3"

Weights: Body only (with magazine, folding viewfinder, and focusing screen) 3 lbs., with standard lens, 4.1 lbs.

NOTE

With the exception of the Kowa Magazines, Focusing Screens and Tripod Mount, all Kowa lenses and accessories may be used on previous Kowa 2½x2¼" camera models. For additional ordering information, please refer to the latest Kowa Price List.

Specifications subject to change without notice

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