

Cambo Best Return on Investment in a Large Format System.

For over fifty years, Cambo view cameras have out-performed all competition.

As a result they have become the most popular choice in all large format markets, including independent commercial studios, catalog houses and photographic educational institutions. In fact, because Cambo products combine uncompromising design, quality materials, precision craftsmanship and reasonable affordability, they can lay claim to being among - if not the - most popular large format cameras in the world.

No matter which Cambo view camera you choose to use you can be assured of these convenient benefits:

Cambo is one of the few companies in the world solely dedicated to the production and development of professional photographic equipment!

Built to Last

All Cambo cameras are built with the professional photographer in mind. They are made to withstand the rigors of heavy daily use. For this same reason they are also a popular choice among the country's most prestigious photo-educational institutions, such as Art Center, Brooks Institute, Columbia College, RIT, and Savannah College of Art and Design.

Cambo's philosophy is to make the finest mechanical instrument possible at a fair price. Since they are geared to making photographic instruments or tools as opposed to consumer products, they use as much metal in the construction of their cameras and stands as possible, as opposed to relying upon less-rigid plastics.

Precision "Optical Bench" Engineering

All Cambo cameras currently feature a choice of coarse and fine focusing, calibrated for accurate results and precise repeatability. Whether you are shooting critical close-ups, extremely detailed tabletops or accurate architectural renderings, Cambo's computerdesigned camera technology is up to the task at hand.

Cambo's unique monorail was designed to be both lightweight and provide optimum strength against twisting and bending. Its symmetrical, dual-track design provides full-length, unobstructed movement of both the camera standards and the mounting block.

Smooth and Easy Operation

All Cambo cameras offer simple "user-friendly" controls, with conveniently calibrated movements, comfortable control and locking mechanisms and smooth rack-and-pinion fine focusing. All controls are logically located right where you'd expect them to be and right where you need them to be for the most efficient operation.

All gears are made of steel for endurance, while gear racks are teflon-filled for maximum smoothness and glass-filled for strength.

Even Cambo's control and locking knobs are metal, with knurled rubber inlaid grips for comfortable yet positive locking.



All Cambo cameras are capable of expanding, or adapting to meet your ever-growing view camera needs. With the full support of a comprehensive accessory system, your Cambo camera can be quickly reconfigured for wide angle architectural work, extreme macro

Full-line of

Affordable Accessories

close-ups and anything in-between. And the best thing — consistent with the Cambo philosophy these accessories are extremely economical, especially when compared to those of the competition.



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Large Format Lenses



Standard Lenses

These standard, or "normal" lenses are designed for general purpose applications intended to perform well in a wide variety of shooting situations, such as product, portrait, landscape and some architectural photography. As a general rule, a normal focal length lens is often equal to the diagonal dimension of the film format being used (e.g. 4x5 film has a 161mm, or 6½" diagonal).

Focal Length	Type of Shutter	Aperture Range	Flange Focal Distance*	Image Circle**	Angle of Coverage**	Max. Format		
Rodens	stock A	Apo-Sir	ronar-N					
100mm	Copal O	5.6-64	100mm	151mm	72°	2¼" x 3¼"		
135mm	Copal O	5.6-64	130mm	200mm	72°	4x5		
150mm	Copal O	5.6-64	142mm	214mm	72°	4x5		
180mm	Copal 1	5.6-64	173mm	262mm	72°	5x7		
210mm	Copal 1	5.6-64	200mm	301mm	72°	5x7		
240mm	Copal 3	5.6-64	231mm	350mm	72°	8x10		
300mm	Copal 3	5.6-64	282mm	425mm	72°	8x10		
360mm	Copal 3	6.8-64	333mm	435mm	64°	8x10		
Schneider Apo-Symmar								
100mm	Copal O	5.6-64	95mm	145mm	72°	2¼" x 3¼"		
120mm	Copal O	5.6-64	118mm	179mm	72°	4x5		
135mm	Copal O	5.6-64	128mm	195mm	72°	4x5		
150mm	Copal O	5.6-64	144mm	220mm	72°	5x7		
180mm	Copal 1	5.6-64	177mm	263mm	72°	5x7		
210mm	Copal 1	5.6-64	203mm	305mm	72°	5x7		
240mm	Copal 3	5.6-64	238mm	352mm	72°	8x10		
300mm	Copal 3	5.6-64	281mm	425mm	72°	8x10		
360mm	Copal 3	6.8-64	340mm	491mm	70°	11x14		
480mm	Copal 3	8.4-64	455mm	500mm	56°	11x14		

Wide Angle Lenses

By definition, a wide angle lens has a focal length less (or shorter) than the film format's diagonal dimension, resulting in a wider angle of view than a "normal" focal length lens. However, a wide angle lens must also have more "covering power" than a normal lens of the same focal length. Covering power is measured in such terms as image circle and angle of coverage, and is a factor of optical design, not focal length.

Focal Length	Type of Aperture Shutter Range		Flange Focal Image Distance* Circle**		Angle of Coverage**	Max. Format		
Rodens	tock A	PO Gr	andagon	l				
35mm	Copal 0	4.5-22	43mm	125mm	120°	6x12		
45mm	Copal 0	4.5-32	56mm	131mm	110°	6x12		
55mm	Copal O	4.5-45	68mm	163mm	110°	4x5		
Rodenstock Grandagon								
65mm	Copal 0	4.5-45	70mm	170mm	105°	4x5		
75mm	Copal 0	4.5-45	82mm	195mm	105°	4x5		
90mm	Copal 1	4.5-45	98mm	236mm	105°	5x7		
75mm	Copal 0	6.8-45	78mm	187mm	100°	4x5		
90mm	Copal 0	6.8-45	94mm	221mm	102°	5x7		
115mm	Copal 1	6.8-45	121mm	291mm	104°	5x7		
Schneid	der Su	per Aı	ıgulon					
47mmXL	Copal 0	5.6-32	59mm	166mm	120°	4x5		
58mm XL	Copal 0	5.6-32	69mm	166mm	110°	4x5		
65mm	Copal 0	5.6-45	72mm	170mm	105°	4x5		
72mmXL	Copal 0	5.6-45	82mm	226mm	115°	5x7		
75mm	Copal 0	5.6-45	85mm	198mm	105°	4x5		
90mm	Copal 0	8.0-45	103mm	216mm	100°	4x5		
90mm XL	Copal 0	5.6-45	103mm	259mm	110°	5x7		
120mm	Copal 0	8.0-64	133mm	288mm	100°	5x7		

Special Macro Lenses

These lenses are designed to deliver optimum performance at close subject range, like 1:1, and are useful from approximately 1:3 to 3:1 reproduction ratios.

Focal	Type of	Aperture	Flange Focal	Image	Angle of	Max.
Length	Shutter	Range	Distance*	Circle**	Coverage**	Format

Rodenstock APO Macro-Sironar

Specially designed for near and macro range, optimized for a scale of 1:2 and exceptional from 1:5 to 2:1. Both lenses feature high speed and large image circles.

120mm	Copal 0	5.6-64	236mm	277mm*	60°*	4x5
180mm	Copal 1	5.6-64	176mm	415mm*	60°*	5x7

Rodenstock Apo-Sironar Digital

Specially designed for digital photography with fine gradation to meet the demands of all chip and scanner formats. Focal lengths from 35mm mean that real wide-angle shots are possible even with the smaller chip sizes while still allowing large movements.

Focal Length	Type of Shutter	Relative Aperture	Flange Focal Distance*	Image Circle†	Max. Format
35mm 45mm	Prontor 0 Prontor 0	4.5 4.5	43.2mm 55.5mm	105mm 125mm	60x80mm 70x100mm
55mm	Prontor 0	4.5	67.6mm	125mm	70x100mm
90mm	Prontor 0	5.6	93.1mm	125mm	70x100mm
105mm	Prontor 0	5.6	100mm	125mm	70x100mm
135mm	Prontor 0	5.6	132mm	150mm	70x100mm
150mm	Prontor 0	5.6	147mm	150mm	70x100mm
180mm	Prontor 1	5.6	177mm	150mm	70x100mm
120mm	Prontor 0	5.6	236mm***	150mm	70x100mm
* 1:11 ** at 1: i	nfinity	*** at ima	ge scale of 1:1	† at	f/11

Special Enhanced Lenses

Lenses with enhanced features, such as a larger than average angle of coverage, also offer more flexibility than normal lenses.

Schneider Super-Symmar High Modulation

This Super-Symmar lens series provides increased flexibility and performance with larger image circles and up to 105° angle of view. These superior specifications allow for greater camera movements and greater format coverage than usual. Their 8 element 6 group design offers outstanding performance and accuracy. Super-Symmar HM lenses incorporate an advanced flourite glass element near the center. Be sure to check out the incredible coverage on the new 110mmXL and 150mmXL models.

Focal Length	Type of Shutter	Aperture Range	Flange Focal Distance*	Image Circle**	Angle of Coverage**	Max. Format
110mmXL	Copal 1	5.6-64	N.A.	288mm	105°	5x7
150mmXL	Copal 1	5.6-64	N.A.	386mm	105°	8x10
210mm	Copal 3	5.6-64	227mm	356mm	80°	8x10

*Lensboard-to-film distance with lens focused at infinity **at f/22

Special Flat Field Lenses

Flat field lenses are basically designed to view the world two-dimensionally. With their subject plane-of-focus parallel to the film plane when all camera movements are zeroed-out, these lenses are the ideal choice for critical, flat-copy reproduction work.

Schneider Macro Symar HM

Focal Length	Type of Shutter	Aperture Range	Flange Focal Distance*		Angle of Coverage**	Max. Format
80mm	Copal 0	5.6-32	78mm	141mm***	47°	_
120mm	Copal 0	5.6-46	116mm	250mm***	55°	_
180mm	Copal 1	5.6-64	174mm	375mm***	55°	_

^{*}Lensboard-to-film distance focused at infinity

Angle of View vs. Angle of Coverage

The angle of view of a camera lens is the amount of the subject area that is seen and reproduced on film. It is determined by the lens focal length in direct relation to the film's format. There are three angles of view for each film format: horizontal, vertical and diagonal, with figures calculated with the lens focused at infinity. Horizontal is the standard reference. The purpose of this chart is to help explain the difference between camera

formats. For example, a 20mm lens on a 35mm camera has angle of view of 84°. The comparable lens on a 4x5 camera would be a 65mm lens, having an angle of view of 86°.

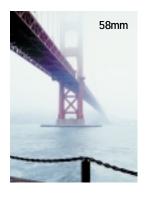
Angle of coverage, on the other hand, can be defined as the angle formed by the entire image circle projected onto the film by the lens. Angle of coverage is directly determined by lens design, not focal length. It must be noted that

the angle of coverage is affected by the f-stop of the lens and should be referenced at a given f-stop, or aperture number. The angle of coverage is usually given @ f/22 with the lens focused at infinity. Check manufacturers' specifications to be certain.

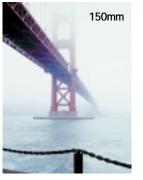
Angle of coverage is an extremely important specification to examine when choosing a large format lens. Comparing the angle of coverage between lenses determines which

lens will allow the greater range of camera movements — the greater the angle of coverage, the greater the amount of view camera movements.

In summary, angle of view must be given for a specified film format, and is dependent on lens focal length. Angle of coverage is the complete image forming angle of a lens and is determined by the lens design.











Angle of View*

35r	nm	6x6	ocm	6x7	'cm	6x9	9cm	4x!	5"	5x	7"	8x1	10"
Focal Length	Angle of View	Focal Length	Angle of View	Focal Length	Angle of View	Focal Length	Angle of View	Focal Length	Angle of View	Focal Length	Angle of View	Focal Length	Angle of View
										75mm	97°	120mm	92°
20mm	84°					50mm	81°	65mm	86°	90mm 100mm	87° 81°	135mm	85°
24mm	74°							75mm	78°	120mm	71°	150mm 165mm	79° 74°
28mm	65°	40mm	69°	50mm	69°	65mm	66°	90mm 100mm	68° 62°	135mm	64°	180mm 210mm	69° 61°
35mm	54°	50mm	58°	65mm	56°	75mm 90mm	59° 51°	120mm	53°	150mm 165mm 180mm	59° 54° 40°	240mm	55°
45mm 50mm		60mm 75mm	49° 40°	75mm 80mm 90mm	49° 46° 42°	105mm	44°	135mm 150mm 165mm	48° 44° 40°	210mm	44°	300mm	45°
55mm 58mm		80mm 100mm 105mm	39° 31° 30°	105mm 120mm 127mm	36° 32° 30°	120mm 135mm 150mm	39° 35° 32°	180mm 210mm	37° 31°	240mm 300mm	39° 32°	360mm 450mm	38° 31°
85mm 105mm		120mm 135mm 150mm	26° 23° 21°	140mm 150mm 180mm	27° 26° 22°	180mm 250mm	27° 19°	240mm 300mm 360mm	28° 23° 19°	360mm 450mm 480mm	27° 21° 20°	480mm	29°
135mm 180mm 200mm	12°	250mm	13°	360mm	11°	360mm	13°	450mm 480mm	15° 14°				

^{*} Expressed for the longer dimension.

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^{**}Focused at infinity

^{***}at f/22 1:1

Cambo Family

54cm

16"

SCN

46mm

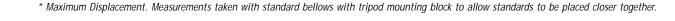
11/8"*

480mm

14½"

Check the Spec!





120mm

-30°

+30°

-30°

+30°

Friction



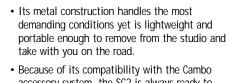
CAMBO SC2

Cambo's versatile SC2 has been a favorite among both student and advanced amateur photographers for years. And it's easy to see why:

- The SC2 is loaded with features like full view camera movements, interchangeable bellows for unlimited focal length versatility, monorail systems to adapt to any shooting situation and a 360° revolving back for easy loading and quick format changes.
- To help you set up that perfect shot, the SC2 offers a calibrated monorail and controls, smooth, precise focusing, large locking knobs, quick release mounting block, dual-axis spirit levels on both standards and zero-position referencing.
- accessory system, the SC2 is always ready to grow with you.
- Includes Cambo's full one-year warranty.

Step Up To Large Format

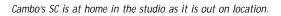
smooth gliding movements, accurate friction focusing, large locking knobs, quick-release mounting block, dual-axis spirit level and zeroposition referencing. Its interchangeable bellows and monorail systems adapt to all shooting situations, and its back is repositionable for horizontal or vertical formats. Since all Cambo cameras are backed by a modular accessory system, this camera is a great tool to get started and grow in large format photography! (Lens and lensboard not included.)



• Folds up easily for travel.

(Lens and lensboard not included.)





DEDICATED SC2 & SCN Accessories

30cm Wide Angle Monorail (11½") 54cm Monorail (21½") 72cm Extra Long Monorail (30")

More accessories on pages 11-15!



For detailed specifications on each SC camera, please see page 9.



4kg

8 lbs.

Graflock

Repositionable

Holds up to the wear and tear of everyday studio use and abuse.

Photo by David O. Marlow

"The Cambo Legend is my workhorse for home interiors and table-top photographs in the studio. The adjustments are easy, fluid and precise. I use it constantly and it's still as fluid and tight as the day I bought it!"

David O. Marlow,

Marlow Aspen

Aspen, Colorado U.S.A.

"One of the 25 best cameras in the world!"

"When we think of good bargains in view cameras and lenses, one of the first places that should come to mind is, naturally, Calumet. . . (The Cambo Legend is) the soul of the workhorse, all-purpose studio view camera. Every aspect of its design is practical, useful, well-thought-out, and well-executed. (*Best Buy)"

Photo Techniques Magazine (U.S.A.) 25 Best Cameras in the World

Strong and Solid Construction for Today's Growing Studio

Cambo's Legend Series cameras are built to take a beating and hold up to the wear and tear of everyday studio use. These solidly designed and ruggedly constructed view cameras are a popular favorite in many of today's large catalog studios because they are so durable and dependable — day-in and day-out. The Legend's all-metal, U-frame standards are among the most rigid ever designed and capable of flawless performance year after year.

Fluid-Smooth Movements

Rack and pinion rise and fall, lateral shifts and fine focusing provide precise image control. All movements are calibrated for quick reference and easy repeatability with convenient zero-position detents.

Easily Extendable Monorail System

The Legend's two-section, split monorail allows for convenient storage and travel, plus provides a short (10") section that is perfect for wide angle work. Cambo's add-on monorail extensions offer quick and smooth transitions from close-ups and macro work to wide angle views and everything in between. Extensions can be added or removed conveniently, without dismantling the camera, and they provide uninterrupted, full-length focusing.

Available With or Without Yaw-free, Base-tilt, Perspective Control The Legend Plus models feature yaw-free base-tilts which allows the table-top photographer to level the camera's pivot point while shooting, as they often are, with the camera inclined in the downward position. This added tilt movement means no more set-up compromises and helps eliminate shape dictortions in your subjects. All Legend series cameras feature standard axial.

are, with the camera inclined in the downward position. This added tilt movement means no more set-up compromises and helps eliminate shape distortions in your subjects. All Legend series cameras feature standard axial tilt controls and a convenient depth-of-field scale which determines the proper focal point and computes the optimum aperture required to match the sharpness range you desire.

Complete and Economical Accessory System

No matter what camera configuration a shot calls for, there is a Cambo accessory that will fill the bill and will do so more cost-effectively than any other large format system. See pages 11-15 for details.

Best Buy in Serious Large Format

When you compare quality and value of all studio view camera systems on the market today, the Cambo Legend series cameras clearly come out on top.

CAMBO LEGEND 4x5

Includes U-frame standards, one-section monorail, mounting block, bellows and revolving back with ruled ground glass.

(Lens and lensboard not included.)

CAMBO LEGEND 8x10

Includes U-frame standards, one-section monorail, heavy-duty mounting block, bellows, bellows support and easy loading back with ruled ground glass. (Lens and lensboard not included.)

With Yaw-free Base Tilts

CAMBO LEGEND PLUS 4x5

Includes U-frame standards with base tilts, two-section monorail, mounting block, bellows and revolving back with ruled ground glass. (Lens and lensboard not included.)

CAMBO LEGEND PLUS 8x10

Includes U-frame standards with base tilts, two-section monorail, heavy-duty mounting block, bellows support and easy-loading back with ruled ground glass. (Lens and lensboard not included.)



Cambo's extensive accessory system provides plenty of extension for macro applications. Legend Plus shown here with optional extra standard bellows, bellows coupling standard, 25½" rail extension and deluxe compendium shade.



The Legend Plus model features yawfree base tilts to help control sharpness and shape.



For detailed specifications on each Legend camera, please turn to page 9.



Cambo Legend 4x5 easily dismantles to fit into its optional custom carrying case.

The first view camera specifically designed for digital photography. "The Ultima's movements are extremely precise

"The Ultima's movements are extremely precise and finely geared which are critical for digital photography. Because the digital chip is so small, every tiny camera move makes a big difference while focusing. I used to fight traditional view cameras to get that kind of precision. The Ultima is a fabulous piece of equipment."

Russell Fichter,

<u>Quebecor Imaging Chicago</u>

Schaumburg, Illinois U.S.A.

Tomorrow's Technology for Today's Digital Studio

CAMBO ULTIMA

After closely examining the view cameras in today's market, Cambo discovered that there wasn't a single camera designed specifically for the highly sensitive requirements of focusing on such a small "chip" plane, digital imaging requires the extremely tight tolerances of ultra-fine camera movements. In order to fill this increasingly critical void, Cambo created the Ultima.

As its name implies, the Ultima offers the ultimate in precision image control for both digital and traditional large format photographers. Cambo's newest view camera represents an entirely new and distinctive design created for high performance, maximum flexibility, and pinpoint accuracy.

The Ultima's compact, symmetrical shape and sleek, aluminum construction provide utmost stability, while its fluid-smooth, geared movements, progressive brakes and positive position locks instill a sense of precision and fingertip control.

Cambo designers have incorporated numerous special features beneficial to today's digital photographer, including a revolutionary "depth adjustment" which allows the user to position the digital chip of all backs precisely where it needs to be for maximum performance. This unique movement makes the Ultima universally compatible with all digital scanning backs, including MegaVision, Better Light, Leaf and Eyelike.

FEATURES:

- Full range of movements suitable for both traditional and digital
- Precision-geared fine focus, rise and fall, tilt, swing and shifts
- Dual range focusing for rapid coarse and precision fine focusing
- · Depth of field scale
- Zero-position detents with definite end stops
- "Virtual Pivot" design for fully yawfree variable axis tilts
- Individual locks on coarse and fine focus, rise and fall movements
- Symmetrical design on front and rear standards for easier operation
- High-quality aluminum body with durable metallic finish
- · Extremely rigid compact design
- Converts easily and economically, to 8x10" and 2½" roll film format view cameras
- Unique design allows for use of lenses down to 47mm — without requiring a recessed lensboard

Cambo Ultima D

Created for digital applications. Includes wide angle bellows, short monorail and tripod mounting block.

Cambo Ultima

Includes standard bellows, split monorail, adjustable tripod mounting block and ground glass back.

Unique benefits for enhanced digital performance:

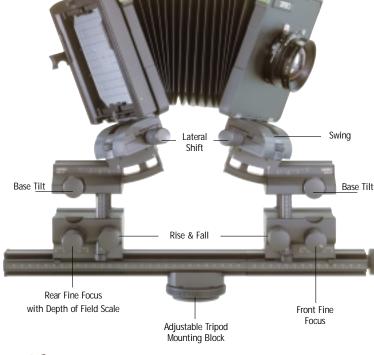
- Unique film, or chip plane "depth adjustment" allows precise alignment of chip plane, preventing the center of the image from moving out of focus when swing or tilt movements are applied
- Rigidly designed base tilt mechanism provides an extremely stable platform for heavy digital backs
- Compact shape and self-locking rise and fall movement allow for even the heaviest of digital backs to be used effectively
- Tight tolerances on precision gearing, specially when focusing on small chips

Ultima Accessories

Flat Lensboards*
Recessed Lensboards*
15cm Extention Rail
30cm Extention Rail
Rail Clamp
Wide Angle Bellows
Binocular Viewing Hood
*specify shutter size

More Accessories

See pages 11-15





Ultima Specifications

Monorail length:
300mm for digital
450mm for film
Tilts: ±20° front & rear
Swings: ±30° front & rear
Rise & Fall: ±20mm front & rear
Lateral Shifts: ±25mm
Weight: 6 kg / 13.2 lbs

For detailed specifications on the Ultima camera, please turn to page 9.



Cambo Sliding Back

This convenient "sliding back" allows you to view through the ground glass and slide your film or digital back into place. Adapts to most digital backs and many popular roll film backs. Optional adapter required.

Sliding Back Adapters & Masks

Hasselblad Adapter Mamiya RB Adapter Mamiya RZ Adapter Mamiya 645 Adapter Contax 645 Adapter

Sliding Back Masks

For 24x36 CCD Back For 31x31 CCD Back



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