

## SUPER WIDE 6x9 PROFESSIONAL



HORSEMAN  
**SW6x9** Professional



## SUPER WIDE ANGLE MEDIUM FORMAT CAMERA

## WITH RISE/FALL/SHIFT FEATURES

In architecture, landscapes, interior work and many other applications, super wide angle photography is commonly required. At the same time, however, restrictions in space and camera positioning often demand accurate control of perspective with the help of special lens movements.

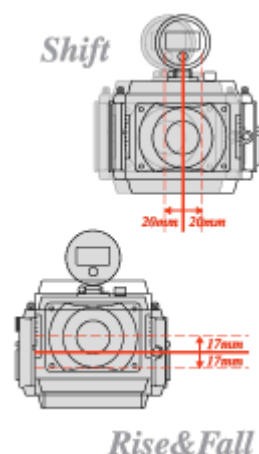
And it is this combination of super wide angle and perspective control that was difficult to achieve in the past with a medium format camera.

## SPECIFICATIONS FOR SW6x9 PROFESSIONAL CAMERA

## Further Information



Type :	Interchangeable Lens / Film Holder Wide-angle Camera with Vertical and Lateral Shift Movements
Camera :	Vertical Shift 34mm (17mm Rise / Fall each)
Movements :	Lateral Shift 40mm (20mm L/R each)
Format :	6x9cm / 6x7cm (depending on the film holder used)
Lens :	Rodenstock Apo-Grandagon 35mm F4.5 Rodenstock Apo-Grandagon 45mm F4.5 Rodenstock Apo-Grandagon 55mm F4.5 Rodenstock Grandagon-N 65mm F4.5 Rodenstock Grandagon-N 75mm F6.8 Rodenstock Grandagon-N 90mm F6.8
Focusing :	By Focus Ring (Visual Focusing or Ground Glass Focusing)
Spirit Levels :	3 for all dimensions
Dimensions :	164(W)x136(H)x133(D)mm (45mm Lens, without View Finder)
Weight :	1.63kg (45mm Lens and Roll Film Holder, without View Finder)



## MAXIMUM DISPLACEMENTS

	6x7cm / 6x9cm	
	Vertical Shift	Lateral Shift
35mm	34mm (17mm each)	40mm (20mm each)
45mm	34mm (17mm each)	40mm (20mm each)
55mm	34mm (17mm each)	40mm (20mm each)
65mm	30mm (15mm each)	40mm (20mm each)
75mm	26mm (13mm each)	40mm (20mm each)
90mm	34mm (17mm each)	22mm (11mm each)

## SW6x9 PROFESSIONAL CAMERA AND ACCESSORIES

21422	SW6x9P Camera Body	690g
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## SW6x9 PROFESSIONAL CAMERA KITS

21682	SW6x9P / 35mm	1.33kg
21683	SW6x9P / 45mm	1.39kg
21684	SW6x9P / 55mm	1.44kg
21685	SW6x9P / 65mm	1.39kg

\*Each Kit consists of Camera Body, Lens Unit, and View Finder (with standard mask and pre-shifted mask set).

21686	SW6x9P / 75mm	1.42kg	*Roll Film Holder is NOT included.
21687	SW6x9P / 90mm	1.61kg	

#### Roll Film Holders (for SW6x9P)

22401	Roll Film Holder 1	420g	6x9cm 8 exp. on #120 Roll Film
22402	Roll Film Holder 2	420g	6x7cm 10 exp. on #120 Roll Film
<del>22403</del>	<del>Roll Film Holder 3</del>	<del>420g</del>	<del>6x9cm 16 exp. on #220 Roll Film</del>
<del>22404</del>	<del>Roll Film Holder 4</del>	<del>420g</del>	<del>6x7cm 20 exp. on #220 Roll Film</del>
22801	Dark Slide		for 22401-22404

#### SW6x9P ACCESSORIES

		Standard Mask	Pre-shifted mask set for 10mm Rise/Fall/Shift
21463	SW Professional Lens Guard		
21465	SW Professional Tripod Base		
21511	SW View Finder		
21471	SW Neck Strap		
29227	Center Filter E58 +1.5	35mm 21534	21524
29228	Center Filter E67 +1.5	45mm 21535	21525
		55mm 21536	21546
		65mm 21537	21547
		75mm 21538	21548
		90mm 21539	21549



SW Professional  
Lens Guard



SW Professional  
Tripod Base



SW Neck Strap



SW View Finder  
\*Photo :  
21511+21525



#### SW Lens Unit

21362	SW Lens Unit 35mm	·Apo-Grandagon 35mm F4.5 ·Filter Diameter : 67mm ·Closest Focusing Distance : 0.3m ·Weight : 460g
21363	SW Lens Unit 45mm	·Apo-Grandagon 45mm F4.5 ·Filter Diameter : 67mm ·Closest Focusing Distance : 0.4m ·Weight : 520g
21364	SW Lens Unit 55mm	·Apo-Grandagon 55mm F4.5 ·Filter Diameter : 67mm ·Closest Focusing Distance : 0.6m ·Weight : 570g
21365	SW Lens Unit 65mm	·Grandagon-N 65mm F4.5 ·Filter Diameter : 58mm ·Closest Focusing Distance : 0.7m ·Weight : 520g
21366	SW Lens Unit 75mm	·Grandagon-N 75mm F6.8 ·Filter Diameter : 58mm ·Closest Focusing Distance : 0.9m ·Weight : 550g
21367	SW Lens Unit 90mm	·Grandagon-N 90mm F6.8 ·Filter Diameter : 67mm ·Closest Focusing Distance : 1.3m ·Weight : 740g

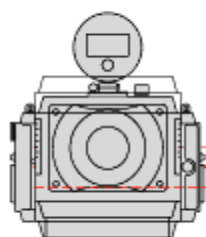


## HORSEMAN SW6x9 Professional

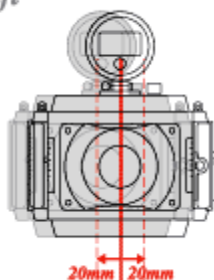
### RISE/FALL & SHIFT

Rise/fall travel stroke is 34mm, while sideways travel (shift) covers 40mm, providing a wide range of possibilities for perspective correction or special effects.

*Rise&Fall*



*Shift*



### Bright Viewfinder

Optically advanced viewfinder specifically designed for the SW6x9 Professional has eye sight correction. Viewfinder masks can be provided for each of the six lenses.

"Pre-shifted" masks are also available, showing the image as it will appear with 10mm shift in either the horizontal or vertical directions.

### Interchangeable Finder Masks

Below the rectangular window in every viewfinder mask there is a circular "peephole" through which the distance scale on the lens barrel (except for the 35mm lens) and the horizontal spirit level are visible. This lets you keep your eye pressed to the viewfinder while maintaining proper level and distance setting.



### Spirit Levels for Accurate Leveling

Three spirit levels on the SW6x9 Professional body permit easy, accurate leveling in all three dimensions.



### Clear Scales and Positive Locks

Rise, fall and shift stroke is indicated on clear, easy-to-read scales, and positive locking devices will arrest the body exactly in its adjusted position.

### Four Types of Interchangeable Roll Film Holders

The SW6x9 Professional gives you a choice of 6x9 and 6x7cm format film holders, for 120 and 220 roll film lengths, for a total of four. Your existing Horseman film holders can also be used.



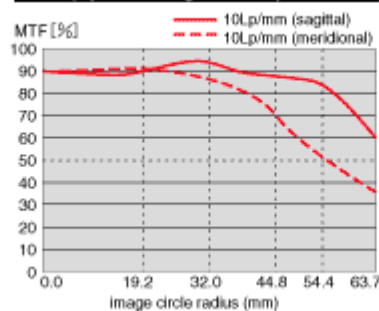
## Six Types of Interchangeable Lens Units

Three types of Rodenstock Apo-Grandagon lenses are available with focal lengths of 35, 45 and 55mm; another three types of Rodenstock Grandagon-N lenses come in focal lengths of 65, 75 and 90mm. In the 6x9cm format, this range is equivalent to focal lengths from 15 to 40mm in a 35mm camera. Particularly engineered for such wide angle applications, these Rodenstock lenses provide extremely high freedom from astigmatism and other distortions as well as excellent sharpness, color balance and saturation.

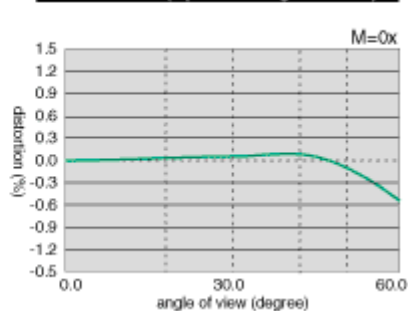


Lens section (Apo-Grandagon)

MTF (Apo-Grandagon 35mm)



DISTORTION (Apo-Grandagon 35mm)



## SW6x9Professional

Angle of View / Equivalent Focal length to 35mm format

	6x7cm			6x9cm		
	Height	Width	Diagonal	Height	Width	Diagonal
35mm	76° 15mm	87° 19mm	101° 18mm	76° 15mm	97° 15mm	108° 15mm
45mm	63° 19mm	74° 24mm	88° 22mm	63° 19mm	84° 20mm	96° 20mm
55mm	53° 24mm	63° 29mm	77° 27mm	53° 24mm	73° 24mm	84° 24mm
65mm	47° 28mm	55° 34mm	68° 32mm	47° 28mm	64° 28mm	75° 28mm
75mm	41° 32mm	49° 40mm	61° 37mm	41° 32mm	57° 33mm	67° 33mm
90mm	35° 39mm	41° 48mm	52° 44mm	35° 39mm	49° 40mm	58° 39mm

## Angle of View Comparison



SW Lens Unit 35mm  
(Apo-Grandagon 35mmF4.5)



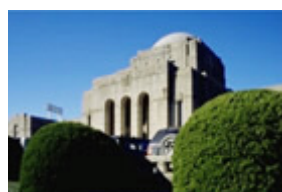
SW Lens Unit 45mm  
(Apo-Grandagon 45mmF4.5)



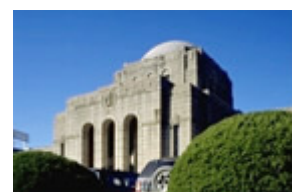
SW Lens Unit 55mm  
(Apo-Grandagon 55mmF4.5)



SW Lens Unit 65mm  
(Grandagon-N 65mmF4.5)



SW Lens Unit 75mm  
(Grandagon-N 75mmF6.8)



SW Lens Unit 90mm  
(Grandagon-N 90mmF6.8)