ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΦΩΤΟΓΡΑΦΙΑ ΙΙ

ΕΙΣΑΓΩΓΗ ΣΤΗΝ ΑΡΧΙΤΕΚΤΟΝΙΚΗ ΦΩΤΟΓΡΑΦΙΑ

Professional Photography II - Introduction to Architectural Photography

ii

Αναίρεση κατακόρυφης σύγκλισης ακμών κτιρίου

Vertical convergence of buildings' lines correction

View Camera, from 1839 to our days

William Jackson, New Mexico 1877

William Jackson and his assistant Charles Campbell, Rocky Mountains 1872

View Camera, from 1839 to our days

Andreas Gursky, 2000’s

View Camera and Field Camera

Toyo View Camera 8’’ x 10’’

Linhof t70 4’’ x 5’’

Field Camera 4’’ x 5’’

2010’s, Digital SINAR (Studio, Industrie, Natur, Architektur, Reproduktion)

Digital imaging technology has revolutionized photography. Compared to conventional film of the same size, small sensor surfaces can record far more image information. Yet the creative fundamentals of photography have not changed. In view camera photography especially, this includes the capability of achieving desired pictorial effects with the judicious positioning of planes of sharpness and with optical perspective correction. Sinar has been a leader in the manufacture of view cameras for more than 50 years and is proud to have more than 10 years of experience as the leading supplier of high-end digital cameras.

Sinar P3 Digital with eVolution 75H Sensor of 36x48 mm size, 33MP

View camera

Standards and their movements

View Camera – Front Standard
(the lens' Standard)

Rear Standard (Groundglass/Negative Standard)

Standards, their movements

Lateral Shift

Rise/
Fall

TILT

SWING

Front Rise

Front/ Rear Lateral Shift

Front/ Rear Tilt

Front Tilts


front standard tilt down
centred
tilted up
side views – lens fall, neutral, rise

Front Swing/ Front + Rear Swing

Front Swings

Front Rise + Tilt + Swing

View Camera

the Lens

View Camera Lenses – their parts

Rodenstock 60mm
1:4 HR Digaron-S

Shutter Release Lever

Cable Release slot

Diaphragms

Rear Element

Front Element

Shutter Speeds

Flash Cable Slot

Shutter Loading Lever

Diaphragm Opening/Closing Lever

Cable Release

View Camera Lenses – their parts

Front Element

Diaphragm Opening/Closing Lever

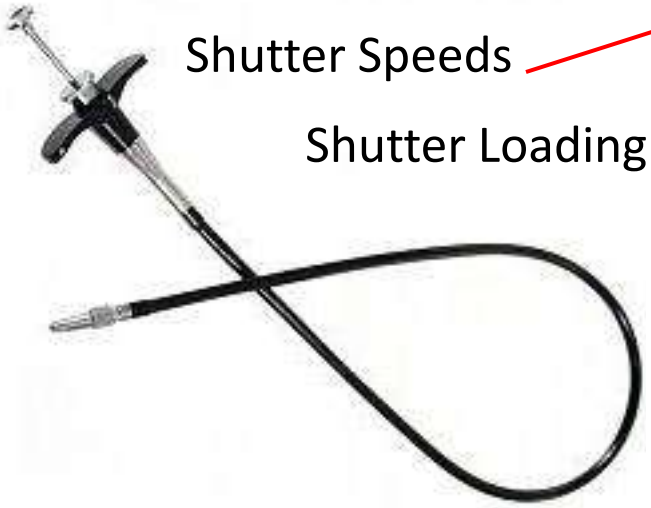
Rear Element

Apertures

Rodenstock 135/1:5,6

Shutter Speeds

Shutter Loading Lever



Flash cable Slot

Cable Release Slot

Shutter Release Lever

Cable Release

View Camera, Lens Boards

Wide Angle Lenses, Recessed Lens Boards

View Camera – the Negative

View Camera, the Negartive's Standard

Negatives' Film Holders
4''x 5'' (100x125 mm)

Roll Film 120 type Backs (film height = 6cm)

Polaroid Backs

Reciprocity Failure Compensation

(to be used only on film, not on sensors!)

Πίνακας ενδεικτικής επαύξησης της έκθεσης (α/μ φιλμ) για χρόνους ίσους ή μεγαλύτερους του ενός δευτερολέπτου
Table of indicative exposure increase for speeds slower than 1 second

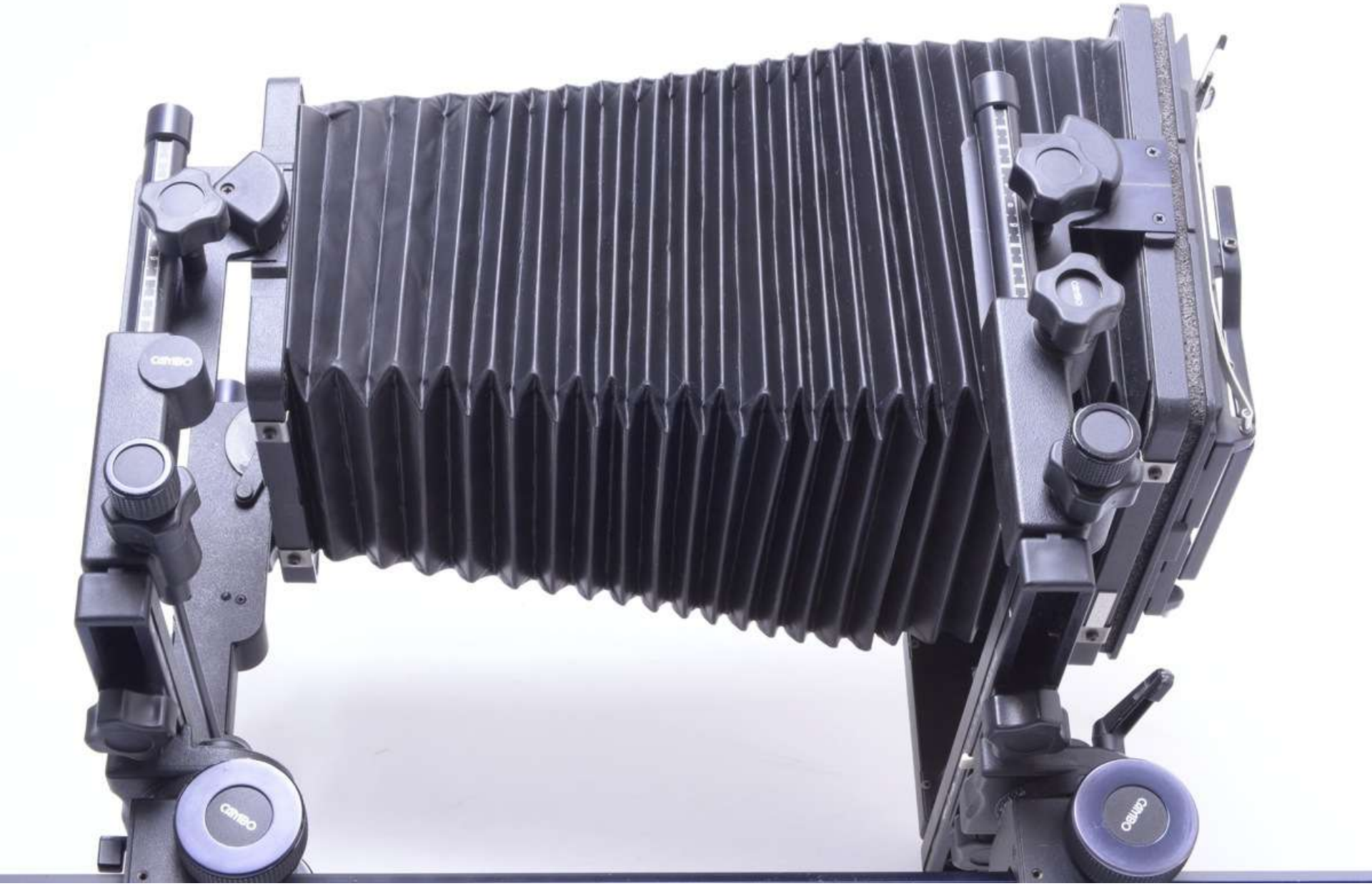
(from Kodak Master Darkroom Data Guide for B/W)

Ένδειξη χρόνου έκθεσης από το φωτόμετρο Speed indication by Light Meter	1''	4''	12''	24''	48''	100''
Πολλαπλασιασμός του χρόνου έκθεσης επί Multiplying Speed by	1,5x	2x	3x	4x	6x	8x
ή αύξηση του διαφράγματος κατά or opening up aperture by	0,5 stop	1 stop	1,5 stop	2 stops	2,5 stops	3 stops

View Camera

Ο Σάκκος – The Bellows

Folding Bellows to be used with Normal or Telephoto Lenses



Bellows to be used with Wideangle or Normal Lenses

View Camera

Διόρθωση οπτικής σύγκλισης
των κατακόρυφων ακμών των κτιρίων

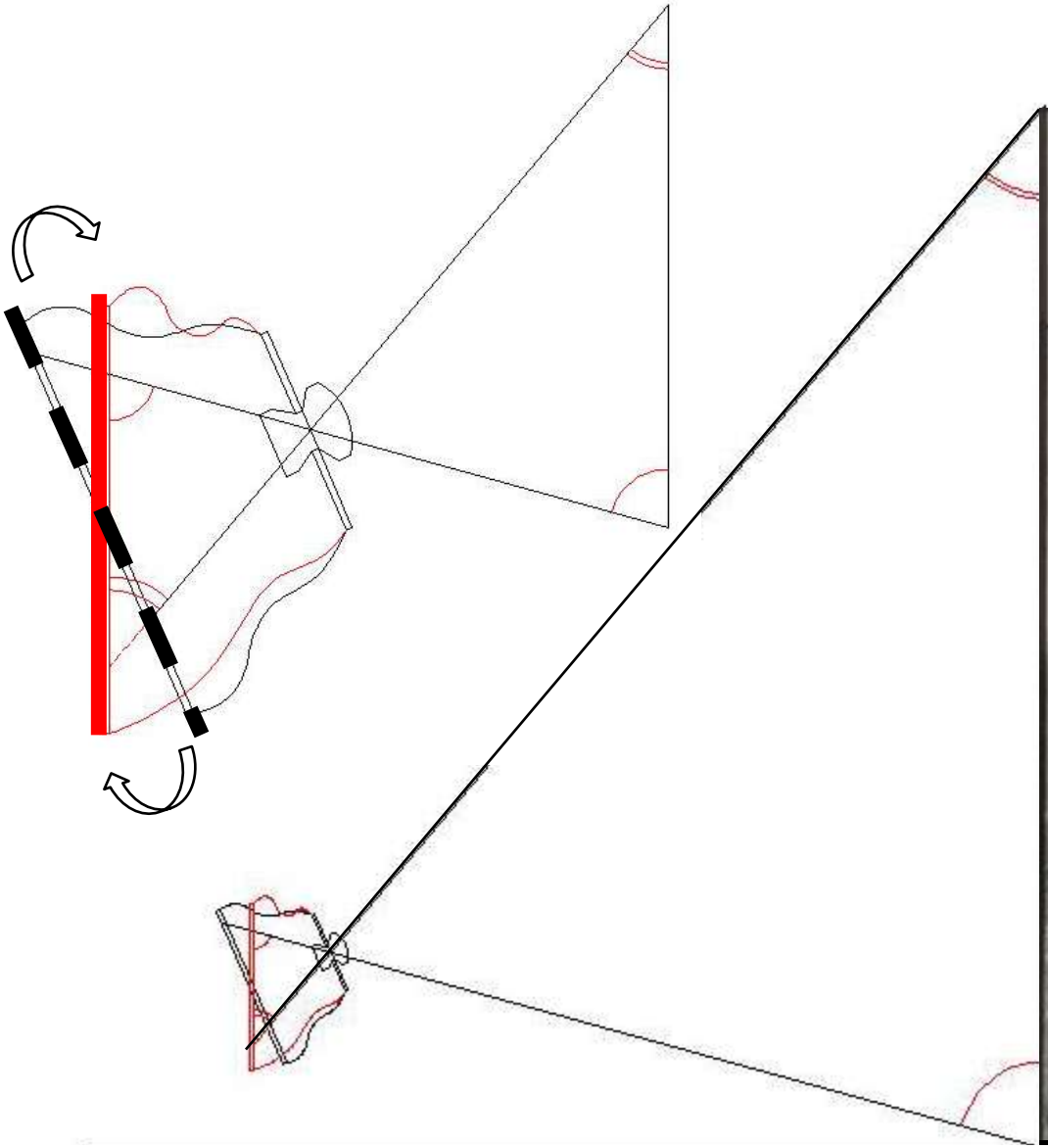
Convergence of buildings’ vertical lines correction

AVARTS Lab, 2013

Λήψη κτιρίου με συμβατική μηχανή από το ύψος του εδάφους

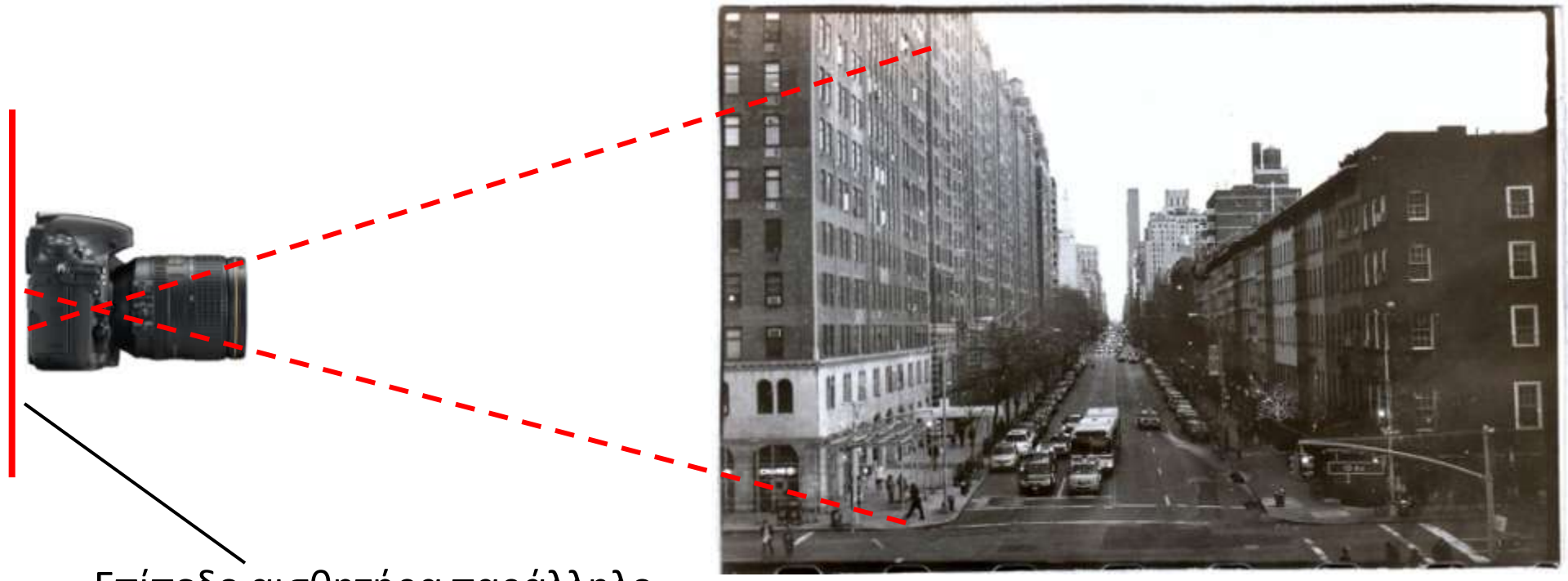
Photographing a tall building with conventional camera from the ground

View Camera, Vertical Convergence Correction



Λήψη κτιρίου με συμβατική μηχανή από ύψος αντίστοιχο με το μέσο ύψος του κτιρίου

Photographing a tall building from a height equal to the buildings'midle height



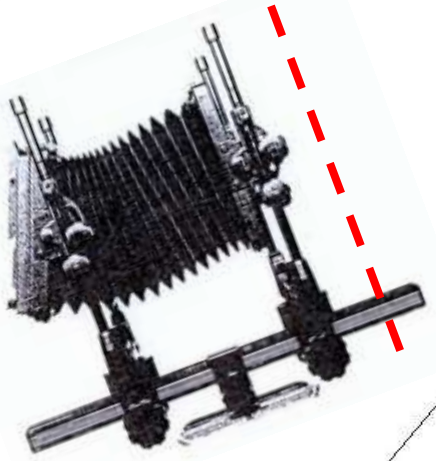
Επίπεδο αισθητήρα παράλληλο με τις κατακόρυφες ακμές των κτιρίων

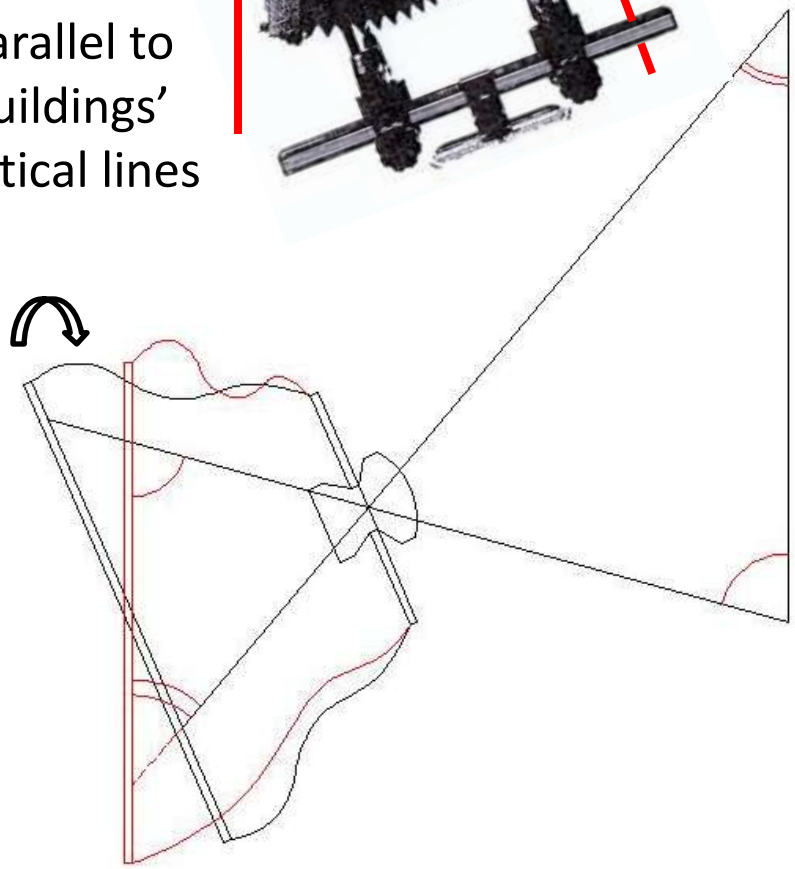
Sensor Plane parallel to the buildings' vertical lines

Στέργιος Μαγκριώτης, NYC

Vertical Convergence Correction through Rear Standard's Movements

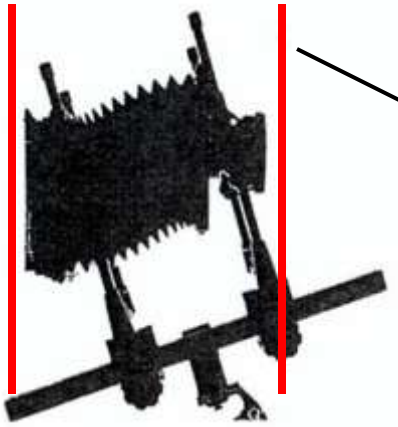
(i) Rear Standard parallel to buildings' vertical lines

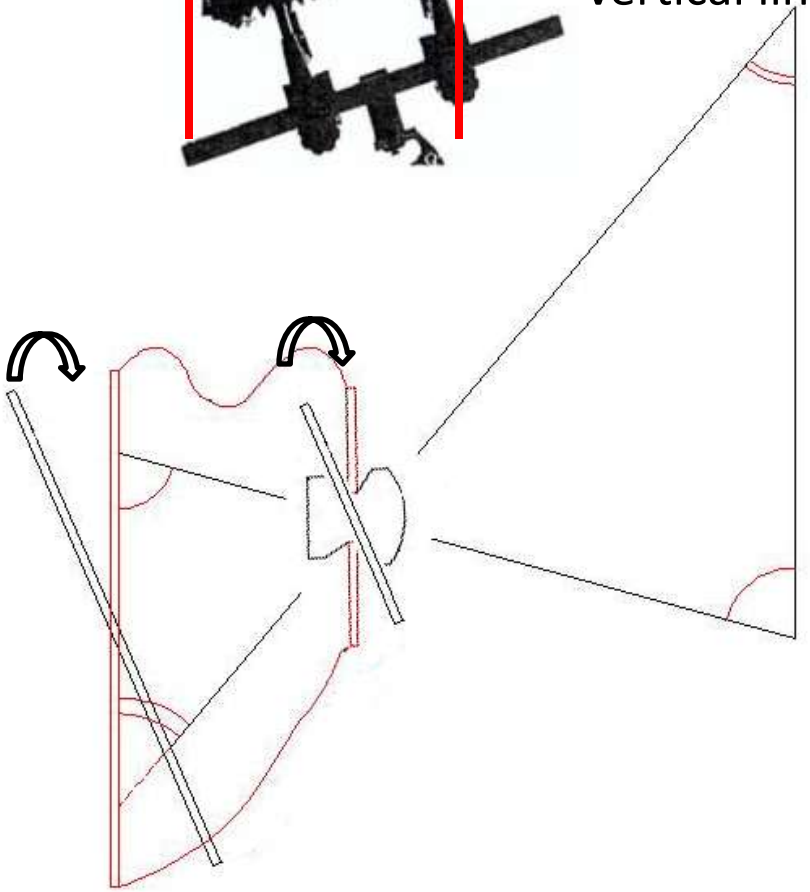




(i): Convergence Correction AND presence of Scheimpflug Effect

(ii) Front Standard parallel to buildings' vertical lines

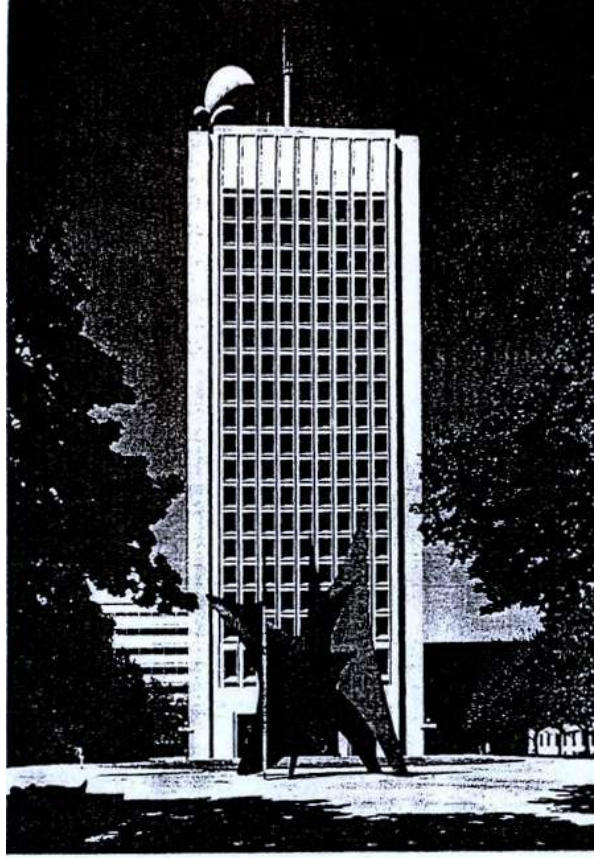


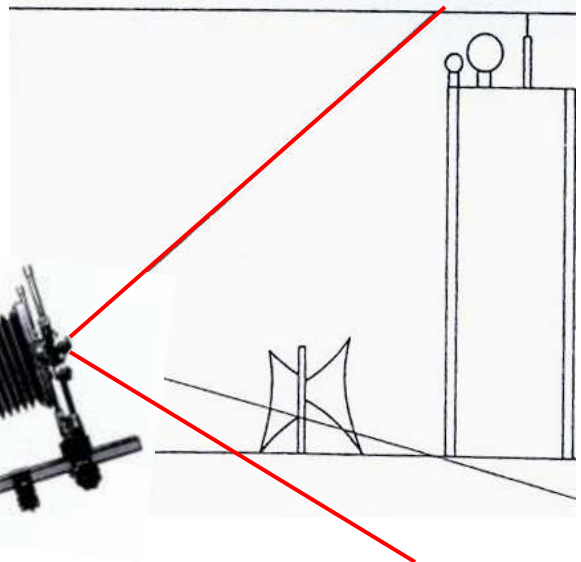


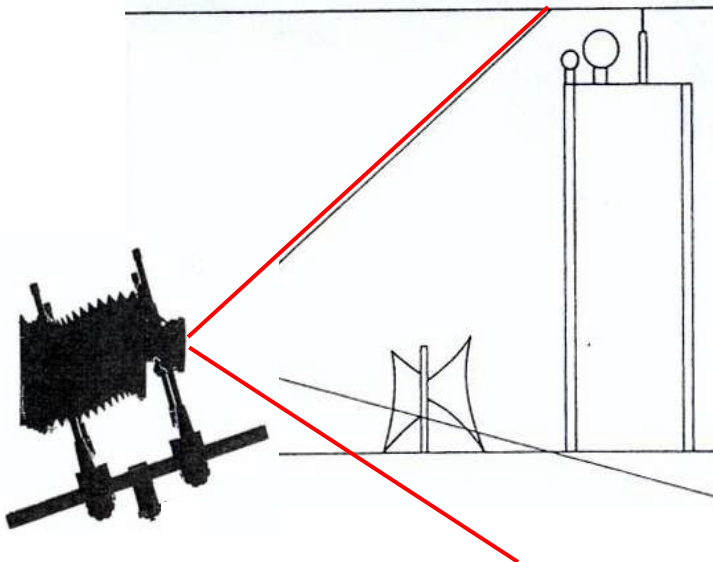
(ii): Convergence Correction WITHOUT the presence of Scheimpflug Effect

Αναίρεση σύγκλισης κατακόρυφων ακμών κτιρίου

Buildings' Vertical Convergence Correction

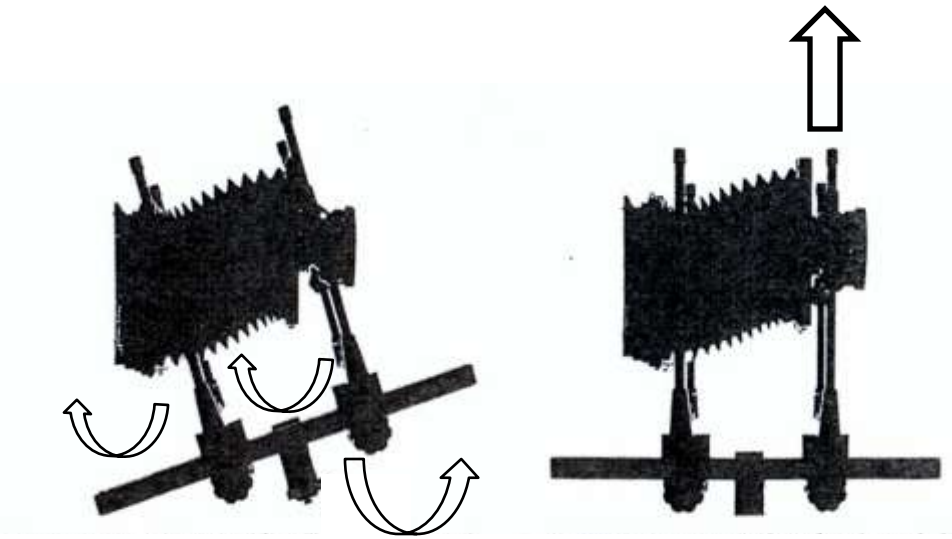






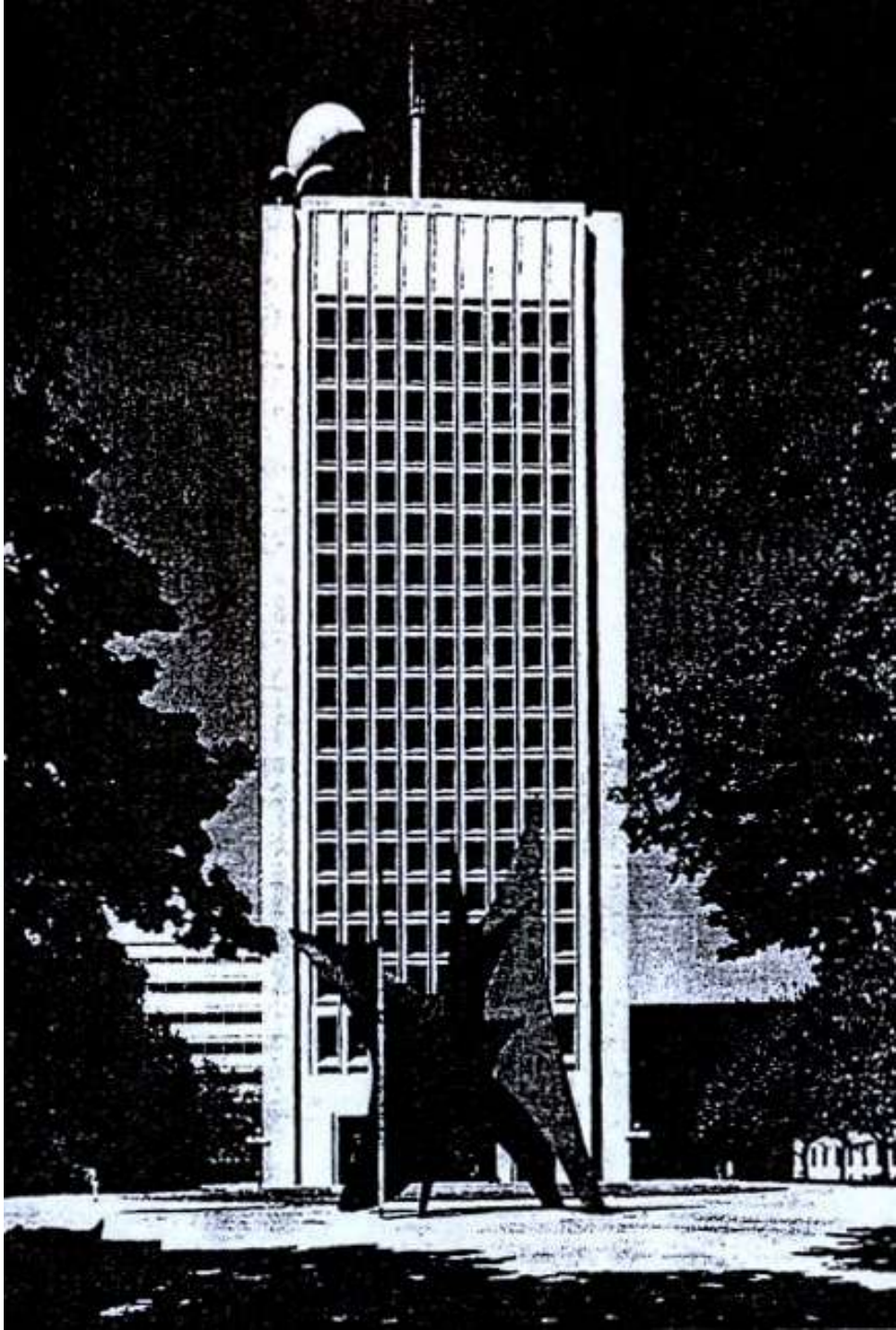
Αναίρεση σύγκλισης κατακόρυφων ακμών κτιρίου

Buildings' Vertical Convergence Correction



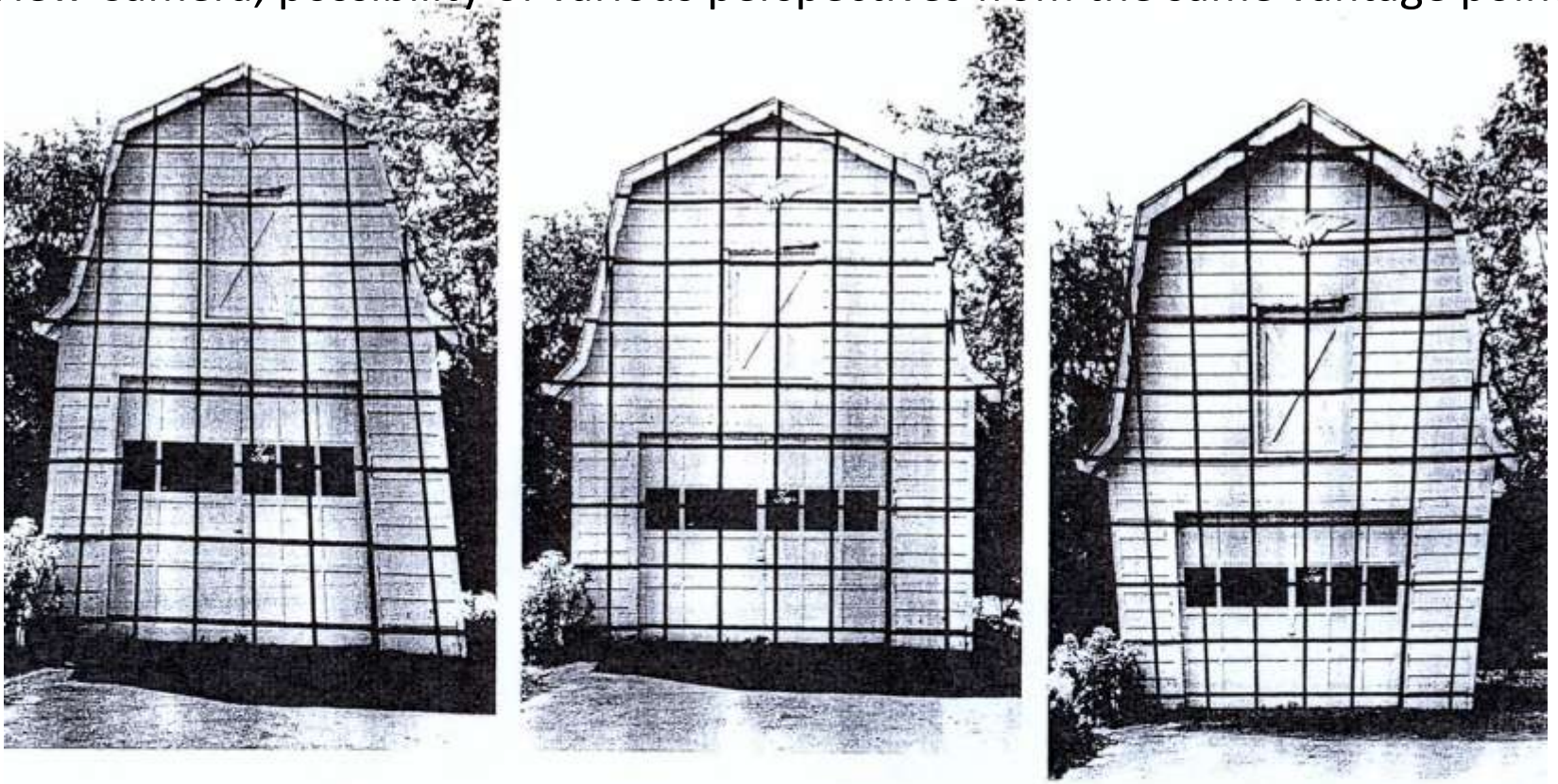
more difficult

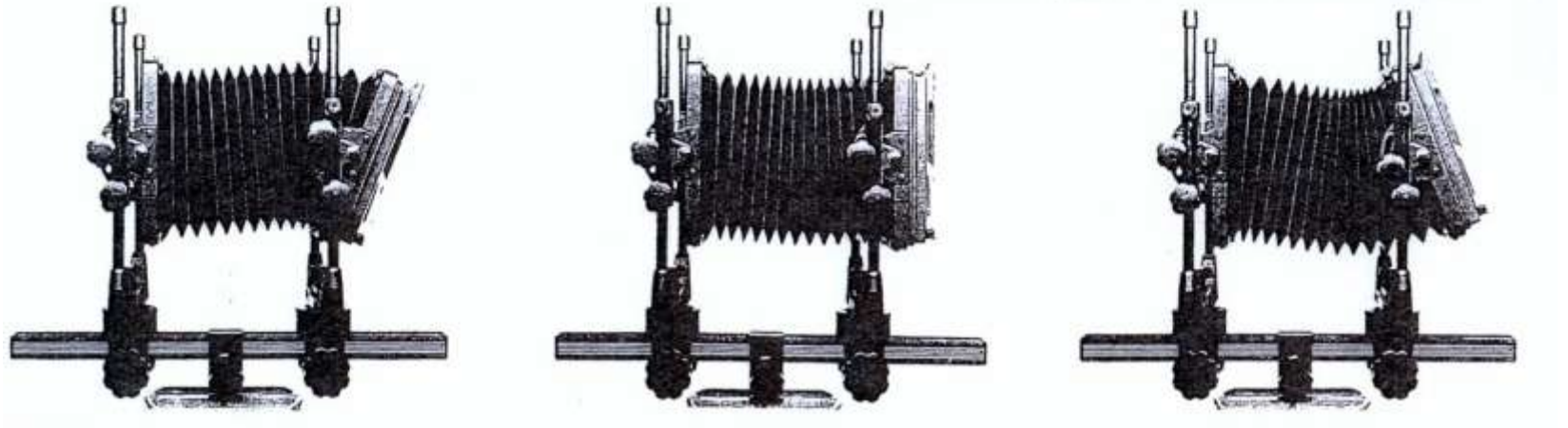
simpler



Stephen Shore – North Adams, Massachusetts, 1974

View Camera, δυνατότητα διαφορετικών προοπτικών από την ίδια θέση
View Camera, possibility of various perspectives from the same vantage point



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