CATALOGUE



## TOYO LARGE FORMAT CAMERA SYSTEM

# TOYO

# TOYO-FIELD





SAKAI SPECIAL CAMERA MFG.CO.,LTD.



EXPERIENCE THE WORLD OF TOYO CAMERAS, WHERE OUR GOAL IS QUALITY AND SATISFACTION.

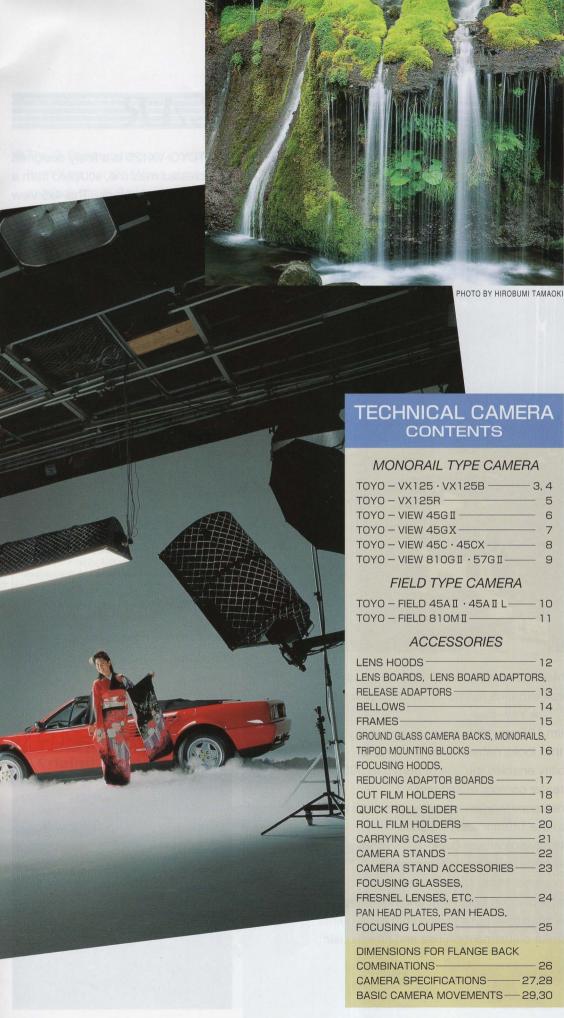






















## TOYO VX 12写

## STELLAR



★ Remarkably lighter than conventional view cameras

★ Exclusive VX monorail expands to double its original length

★ Yaw-free

★ Folds up to a slim 125mm, allowing easy portability

\*A new color that looks natural even in the field

- ★ Exclusive VX bellows' flexibility enables the use of 58mm to 300mm lenses and greater camera movement
- ★ Interchangeable with G Series accessories, including monorail and bellows
  - ★ Fits into the 140mm carrying case
    - ★ Revolving camera back
  - ★ Quick shoe base for one-touch mounting
  - ★ Rubber ring-covered metal knobs for easy grip
  - ★ 15mm fine focus capability on both front and rear frames
  - ★ Gear controls for fine adjustment of rise and shift movements
  - ★ Tiny clicks for easy brake adjustment on rise and fine focusing

The TOYO-VX125 is a finely designed and created machine, sculpted from a quality duralumin block. This 4x5 view camera was created out of the need for a light weight, durable, and compact camera that can also be used in the field.

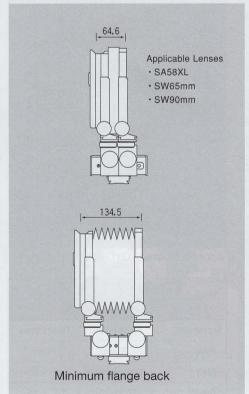
II. NI	/X 125·V	
Item No.	No.122 • No.123	
Movement	Front Frame	Rear Frame
Rise	70 mm	70 mm
Shift	30 mm + 40 mm	30 mm + 40 mm
Swing	25°+25°	25°+25°
Tilt	25°+25°	25°+25°
Fine Focus	30 mm	30 mm
Flange Back	67 mm~267 mm (67 mm ~ 327 mm w	ith extension pipe)
Camera Back	Revolving(can be unintermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel let	ons), Chemically und glass, cm and 6 x 7 cm
Monorail	φ 39 mm, 125 mm ~ 255 mm (185 mm ~ 315 mm w	
Lens Board	158mm×158mm	n
	(H)302×(W)2	006 V (1 ) 105 mm
Folded Size	(11)302/(00)2	20 / (L) 12311111
Folded Size Weight	2.7kg	.26×(L) 12511111

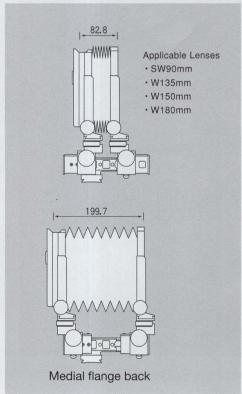
## New TOYO VX 125B (Black matt finish)

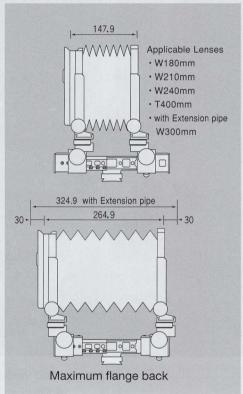


- The length of the adjustable VX monorail ranges from 125mm to 255mm. With the extension pipe, it stretches to 315mm.
- The G Series extension monorail can not be connected to the VX monorail. When a monorail longer than 315mm is needed, the G Series monorail and tripod mounting block must be used. Adding a sub frame and bellows to the G Series monorail enables photographing with a 1200mm lens.
- Although lenses can be attached to and detached from the standard lens board (#10101), it is recommended for portability that the G Series lens board adaptor is used with the smaller TF45A lens boards.
- The TOYO-VX125 is designed with a quick shoe-style tripod attachment. However, it can be used without the quick shoe by attaching the mounting block directly to the tripod, using the 1/4 inch screw.

#### MEASUREMENTS OF FLANGE BACK FOR TOYO - VX1250 VX1250

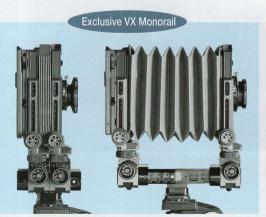














# TOYO VX 1250 SIMPLE



★ A simplified version of the TVX125 ★ Manual Rise/Fall

- ★ 125mm monorail (unlimited extension capacity)
  - ★ Black matt finish



Extendable monorail





Accepts most of TOYO-VIEW accessories

TOYO-VX 1250		
Item No.	No.124	
Movement	Front Frame	Rear Frame
Rise	70 mm	70 mm
Shift	30 mm + 40 mm	30mm + 40 mm
Swing	25° + 25°	25° + 25°
Tilt	25° + 25°	25° + 25°
Fine Focus	30 mm	30 mm
Flange Back	69mm~136mm	
Camera Back	Revolving(can be intermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel lend	ons), Chemically aund glass, cm and 6 x 7 cm
Monorail	φ 39 mm 125 m (unlimited extens	
Lens Board	158mm×158mm	
Folded Size	(H)304×(W)2	219×(L)125mm
Weight	2.7kg	
Minimum Flange with Wide Angle Board	27 mm	ERR PAR

## TOYO-VIEW 45GII

## TRADITION



The TOYO-VIEW 45G, renowned for its durablility, is now available as the TOYO-VIEW 45GII. A variety of accessories and highly precise mechanisms provide the user with a wider range of photographic possibilities. All knobs are made of metal for longer durability. 136mm x 136mm inside measurement of bellows reduces the risk of image cutoff. The monorail can now be extended infinitely by connecting one extension monorail to another, etc. The extension monorail can be connected to either end of the basic monorail. The bellows. monorails, and other accessories can be used interchangeably with 45G and 45GB accessories.

- ★ Independently locking parts enable easy photographing even in hard conditions
  - ★ A click indicates the center movement of tilt and swing
    - ★ Reference scales attached to all movements
  - ★ Two speed focus system for quick and precise focusing
- ★ Helical Rack System for smooth, minute adjustments to focus, shift, and rise
- ★ T-shape spirit levels on both front and rear frames for easy horizontal and vertical adjustments. Side frames designed for attachment of optional spirit levels
  - ★ Revolving camera back with a click stop on each corner
    Depending on the lens being used, photography is possible
    in intermediate positions without image cut-off

TOYO-	VIEW 4	15GII
Item No.	No.	114
Movement	Front Frame	Rear Frame
Rise	145 mm	145 mm
Shift	35 mm + 35 mm	35mm+35mm
Swing	30°+30°	30°+30°
Tilt ilmoo ro	45° + 35°	45°+35°
Fine Focus	60 mm	60 mm
Flange Back	90 mm (balloon b ~ 485 mm (star	pellows) ndard bellows)
Camera Back	Revolving(can be unintermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel ler	ons), Chemically und glass, cm and 6 x 7 cm
Monorail	φ 39 mm standa + 250	ard set 250 mm mm(extendable)
Lens Board	158 mm×158 mr	n
Folded Size	(H)340×(W)2	66×(L)291mm
Weight	5.5kg	
Minimum Flange with Wide Angle Board	50 mm	

## TOYO-VIEW 45GX

## OUTSTANDING



★ Quick vertical setting with base tilt

★ Yaw-free

- ★ Both base and center axes tilt for greater camera movement
- ★ Depth of Field Indicator confirms the focusing depth clearly with numbers
  - ★ Revolving camera back, bellows, monorail, locks, and other parts are identical to those of the GII

The 45G II has been equipped with more advanced capabilities to create the 45GX. Base tilt and Depth of Field Indicator added for total image control. An attractive choice for the demanding photographer.

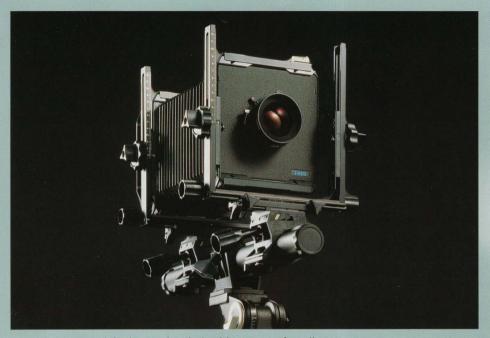
TOYO	-VIEW 4	15GX
Item No.	No.108	
Movement	Front Frame	Rear Frame
Rise	145 mm	145 mm
Shift	35 mm + 35 mm	35 mm + 35 mm
Swing	30°+30°	30°+30°
Tilt	45° + 35°	45° +35°
Base Tilt	45° +45°	45° +45°
Fine Focus	60 mm	60 mm
Flange Back	90 mm (balloon I ~ 485 mm (sta	pellows) ndard bellows)
Camera Back	Revolving(can be intermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel let	ions), Chemically aund glass, cm and 6 x 7 cm
Monorail	φ 39 mm standa +250	ard set 250mm mm(extendable)
Lens Board	158mm×158mm	n
Folded Size	(H)397×(W)2	266×(L)291 mm
Weight	6.4kg	
Minimum Flange with Wide Angle Board	50 mm	bolik





Yaw-Free Mechanism

## TOYO-VIEW 45C 45CX



★ Independently locking parts for all movements
 ★ Two speed focus system for quick and precise focusing
 ★ 250mm monorail available as an accessory to the standard 450mm monorail
 ★ Lens board, lens hood and mounting block all identical to those of the 45GII
 ★ Revolving camera back



★ The most economical TOYO-VIEW

- ★ All movements on front and rear standard
- ★ Vertical/Horizontal reversible camera back
- ★ Interchangable Bellows-Balloon Bellows available (option)

## TRY

For the photographer who wants to casually use a view camera. An economical model recommendable to the first-time user of a view camera.

Item No.	No.89  Front Frame Rear Frame	
Movement		
Rise	120 mm	120mm
Shift	45 mm + 45 mm	45mm + 45mm
Swing	360°	360°
Tilt	48°+48°	48°+48°
Fine Focus	42 mm	42 mm
Flange Back	82mm~449mm	
Camera Back	Revolving (can be intermediate positi grid ground glass,	ons), printed cm
Monorail	φ 39 mm 450 mm in length (	non extendable)
Lens Board	158mm×158m	m
Folded Size	(H)352×(W)2	274×(L)474mm
Weight	4.1kg	
Minimum Flange with Wide Angle Board	42 mm	

	-VIEW 4	
Item No.	No.109	
Movement	Front Frame	Rear Frame
Rise	80 mm	80 mm
Shift	30 mm + 30 mm	45 mm + 45 mm
Swing	30°+30°	30°+30°
Tilt 1880 gnivns	45°+45°	45°+45° (Vertical) 40°+40° (Horizontal)
Fine Focus	42mm	42mm
Flange Back	80 mm~435 mm	90-40
Camera Back	Vertical/Horizon back Printed cm grid	
Monorail	φ 39 mm 450 mm in length (	non extendable)
Lens Board	110mm×110m	m
Folded Size	(H)322×(W)2	277×(L)478 mm
Weight	3.6kg	anax (Li torem
Minimum Flange with Wide Angle Board	67.5 mm	

## TOYO-VIEW BIDGII 57GII

## CHALLENGE



- ★ The front frames and monorails are identical to those of the TOYO-VIEW 45GII
  - ★ The highly precise operation and sense of balance unique to TOYO-VIEW extends even to the 8 x 10 and 5 x 7 formats
    - ★ The 8 x 10 camera back is designed with a glass frame that opens horizontally with lever arms for smooth insertion of film holders
      - ★ Mirror hoods for the 8 x 10 are available as accessories
  - ★ The camera back can be detached and reattached for vertical/horizontal positions
    - ★ A compact carrying case for easy portability is available for the TOYO-VIEW 810GII



Maintaining the precision, durability, and operation of the 45 G II, we have upgraded it to a larger format. 5"  $\times$  7", 4"  $\times$  5", and 6cm  $\times$  9cm formats can also be photographed by using a reducing adaptor board.

IUYU-	VIEW B	
Item No.	No.116	
Movement	Front Frame	Rear Frame
Rise	145mm	170 mm
Fall	35 mm + 35 mm	60 mm + 60 mm
Shift	30°+30°	30°+30°
Swing	45° +35°	50°+50°
Tilt	60 mm	60 mm
Flange Back	85mm~500mm	
Camera Back	Chemically etch ground glass, n detachable for v horizontal positi	o fresnel lens, vertical/
Monorail	φ 39 mm stand + 250	ard set 250mm mm(extendable)
Lens Board	158mm×158mm	n
Folded Size	(H)471×(W)4	45×(L)291 mm
Weight	8.9kg	
Minimum Flange with Wide Angle Board	45 mm	

TOYO-	VIEW 5	7GII
Item No.	No.115	
Movement	Front Frame	Rear Frame
Rise	145 mm	130 mm
Shift	35 mm + 35 mm	35 mm + 35 mm
Swing	30°+30°	30°+30°
Tilt	45°+35°	45°+35°
Fine Focus	60 mm	60 mm
Flange Back	76mm~500mm	
Camera Back	Chemically etch ground glass, fr detachable for v horizontal positi	esnel lens, vertical/
Mororail	φ 39 mm standa + 250	ard set 250mm mm(extendable)
Lens Board	158mm×158mr	n
Folded Size	(H)385×(W)3	28×(L)291mm
Weight	5.8kg	
Minimum Flange with Wide Angle Board	36 mm	

## TOYO-FIELD 45AII 45AIIL

## **OUTDOORS**

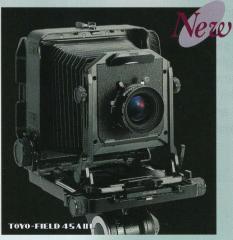


- ★ Can use 65mm to 300mm lenses. As an accessory, a recessed lens board is available for use with lenses with shorter focal lengths, and a 100mm long extension tube is available for use with longer focal lengths
- ★ The front frame allows camera movement in all directions, while the back frame allows swing and tilt movements
  - \* Revolving camera back for easy use
  - ★ 110 sq. mm lens board allows easy use even with lenses with a large rear element
- ★ Folds to 188mm x 209mm x 107mm and 2.8kg, making it very portable Solid, easy to use, and durable



#### TOYO-FIELD 45 AILL

TOYO-FIELD 45 II with built-in Linhof lensboard adaptor



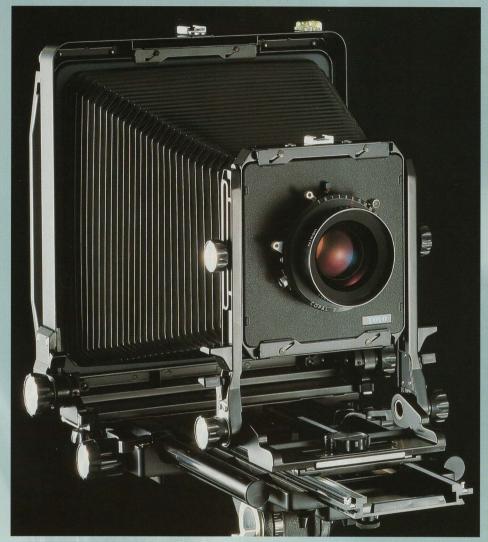
Applying the knowledge accumulated since the first die-cast body TOYO-FIELD cameras, we created the 45A. This was further refined to produce the 45AI. The  $4\times5$  field camera you can depend on !

TOYO-	-FIELD 4	ISAII
Item No.	No.120	
Movement	Front Frame	Rear Frame
Rise	20 mm	
Fall	23 mm	
Shift	7mm + 7mm	
Swing	8°+8°	8°+8°
Tilt	90°+15°	90°+15°
Flange Back	70 mm~324 mm	
Camera Back	Revolving(can be unintermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel ler	ons), Chemically und glass, cm and 6 x 7 cm
Lens Board	110mm×110mm	n
Folded Size	(H)188×(W)2	09×(L)107mm
Weight	2.8kg	
Minimum Flange with Wide Angle Board	43 mm	
Maximum Flange with Extension Tube	424 mm	

TOYO-	FIELD 4	SAIL
Item No.	No.130	
Movement	Front Frame	Rear Frame
Rise	20 mm	bod at the
Fall	28 mm	
Shift	7mm + 7mm	
Swing	8°+8°	8°+8°
Tilt , bood s	90° + 15°	90° + 15°
Flange Back	70 mm~324 mm	
Camera Back	Revolving(can be unintermediate position etched cm grid gromarkings for 6 x 9 formats, fresnel ler	ons), Chemically und glass, cm and 6 x 7 cm
Lens Board	Linhof Lens E	Board
Folded Size	(H) 188×(W) 2	09×(L)107mm
Weight	2.8kg	
Minimum Flange with Wide Angle Board	43 mm	
Maximum Flange with Extension Tube	424 mm	

## TOYO-FIELD 810MI

## 8X10 HANDY



★ Movement in all directions on the front frame and swing and tilt on the rear frame

★ Front fall - 46mm

★ The body is made of die-cast aluminum alloy and, although light weight, is very durable and solid

★ Folded size is 366mm x 379mm x 158mm - astonishingly compact in comparison with its capabilities

★ An exclusive aluminum case is available

★ The lens board, lens hood, and bellows are interchangeable with those

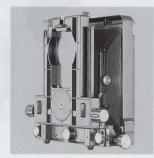
of the GII series

★ The camera back is designed with a glass frame that opens horizontally with lever arms for smooth insertion of film holders

★ The camera back can be detached and reattached for vertical/horizontal positions

Take an 8 x 10 camera that, compacted, weighs only 6.8kg and has a thickness of 158mm, and you have the 810M. Now design it so that it can be used with a 1200mm lens, and you have the TOYO-FIELD 810MII. Even with a 1200mm lens, close-up photography of up to 20m is possible.

TOYO-	FIELD 8	IDMII
Item No.	No.119	
Movement	Front Frame	Rear Frame
Rise	44 mm	
Fall	46 mm	
Shift	40 mm + 40 mm	
Swing	360°	6°+6°
Tilt	90°+15°	90°+15°
Focus	Fine focus by rack p	inion on the back
Flange Back	88mm~822mm	
Camera Back	Chemically etch ground glass, no detachable for v horizontal positi	o fresnel lens, rertical/
Rail	two step drawing	g callana a
Lens Board	158mm×158mm	
Folded Size	(H)366×(W)37	79×(L)158mm
Weight	6.8kg	
Minimum Flange with Wide Angle Board	48 mm	The tarrier of



The outside dimensions of (H) 366mm x (W) 379mm x (L) 158mm and the standard set weight of 6.8kg is remarkably light for an 8 x 10 camera .

#### **LENS HOODS**



#### No. 8060 Pro Compendium Lens Hood VG

A flexible lens hood for all TOYO cameras except 23G and 45A FIELD. Fully adjustable bellows and hood movement to keep out unwanted light. Easy replacement of lenses, one-touch front-back shift, and lifting hood. 126mm diameter opening enables use with most lenses. Accepts 3", 4", and 5" gelatine filters that can be placed on either side of the hood. 69.5mm lens hood rod is detachable at 26.5mm from the front end for use of a short focusing lens to avoid taking an unwanted photo of the rods. An extension rod (No. 8062) is available as an accessory for use with a lens with a large front element. With the No. 8062 extension rod the hood rod lengthens to 124.5mm. Comes with three sizes of filter holders.



#### No. 1660 Pro Compendium Lens Hood 4F

Same design as hood No. 8060, but fits only TOYO-FIELD 45AII and 23G. 102mm diameter opening accepts 3" and 4" gelatine filters. 61mm lens rod is detachable at 24mm from the front end, and can be attached with a 56mm extension rod (an accessory). Comes with 3" and 4" filter holders.

\*Lens Hood No. 8060 and No. 1660 cannot be used interchangeably.

#### EXTENSION RODS FOR LENS HOODS



No. 8062 Extension Rods for No. 8060 Lens Hood (HVG-ET 81.5mm)

No. 1662 Extension Rods for No. 1660 Lens Hood (H4F-ET 56mm)

#### **GELATINE FILTER HOLDERS**



Holds gelatine filters or special effects masks on either end of the lens hood.

**No. 8063** set includes 3", 4", and 5" holders for No. 8060 lens hoods.

No. 1663 set includes 3" and 4" holders for No. 1660 lens hoods.



(Gelatine Filter)

For No.8060 3", 4", 5" For No.1660 3", 4"



#### No. 12040 TOYO 110mm square Wide Angle Lens Board

Recessed(12.5mm) lens board for TOYO-FIELD 45A, pre-drilled for COPAL #0 shutter.

#### LENS BOARDS



No. 10101 TOYO Standard Lens Board

158 mm square board. Fits all TOYO-VIEW and ROBOS models except 23G. Also fits TOYO-FIELD 810M.



No. 1129 TOYO 158mm square Wide Angle Lens Board

Recessed(38mm) lens board pre-drilled for COPAL #0 shutter for all TOYO-VIEW and ROBOS models except 23G. Also fits TOYO-FIELD 810M.



No. 1601 TOYO 110mm square Lens Board

Standard flat lens board for TOYO-VIEW 23G and TOYO-FIELD 45A.



No. 5081 Graphic Lens Board

Lens board for standard Graphic View cameras. 94mm x 93mm



No. 117 Linhof Lens Board

Standard flat lens board for Linhof Technika.

#### LENS BOARD ADAPTORS AND RELEASE ADAPTORS



No. 1050 AFVM

For use of a Graphic standard board with TOYO-VIEW and TOYO-FIELD 810M.



No. 1051 ALVM

For use of a Linhof Technika board with TOYO-FIELD 810M.



No. 1052 A4FVM

For use of a TOYO-FIELD 45A board with TOYO-VIEW and TOYO-FIELD 810M.



No. 8054 ASVG

For use of a Sinar board with TOYO-VIEW and TOYO-FIELD 810M.



No. 1055 AWFVM

For use of a wide angle board with TOYO-VIEW and TOYO-FIELD 810M.
Recessed (38.7 mm) adaptor board.



No. 1056 AWLVM

For use of a Linhof Technika board with TOYO-VIEW and TOYO-FIELD 810M. Recessed (39.8mm) wide angle adaptor board.



No. 1057 AW4FVM

For use of a TOYO-FIELD 45A board with TOYO-VIEW and TOYO-FIELD 810M. Recessed (39.7 mm) wide angle adaptor board.



No. 1630 AF4F

For use of a Graphic standard board with TOYO-FIELD 45A and 23G.



No. 1631 AL4F

For use of a Linhof Technika board with TOYO-FIELD 45A and 23G.



No. 1632 AH4F

For use of a 69 Horseman board with TOYO-FIELD 45A and 23G.



No. 1637 AWH4F

For use of a 69 Horseman board with TOYO-FIELD 45A and 23G. Recessed (24.8mm) wide angle adaptor board.



No. 12045 Release adaptor

for Copal #0 shutter
No. 12047

Release adaptor

for Fujinon #0 shutter



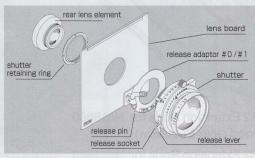
No. 12046

Release adaptor for Copal #1 shutter

#### No. 12048

Release adaptor for Fujinon #1 shutter





Release adaptors ensure easy attachment and detachment of the shutter release, and minimize damage on the release socket of the shutter body. The release adaptor is recommended to be used with the recessed adaptor board (No. 12040). Manufactured for general Copal #0 and #1 shutters or for Copal #0 and #1 shutters for Fujinon lenses.

#### **BELLOWS**

Various sizes of standard, balloon, and long bellows are available. They are all manufactured and developed using exclusive TOYO technology. The maximum and minimum lengths of each bellows are given for reference when ordering replacements.





No. 10102 BS45R 4 x 5 Standard Bellows

Standard bellows for TOYO - VIEW 45 G/C.

Min. : 60mm Max. : 410mm



No. 10202 BS23G 2 x 3 Standard Bellows

Standard bellows for TOYO - VIEW 23G.

Min.: 35mm Max.: 260mm



No. 10302 BS24G 2 x 4 Standard Bellows

Standard bellows for connecting front standard of TOYO - VIEW 23G to rear standard of TOYO -

VIEW 45 G/C. Min. : 40mm Max. : 305mm



No. 8102 BS57G 5 x 7 Standard Bellows

Standard bellows for TOYO - VIEW 57G.

Min. : 45mm Max. : 450mm



No. 11602 BS810GII 8 x 10 Standard Bellows

Standard bellows for TOYO - VIEW 810 G/M.

Min.: 30mm Max.: 800mm



No. 11421 BB45GII 4 x 5 Balloon Bellows

4 x 5 Balloon Bellows for TOYO - VIEW 45 G/C.

Min.: 25mm Max.: 310mm



No. 10221 BB23G 2 x 3 Balloon Bellows

2 x 3 Balloon Bellows for TOYO - VIEW 23G.

Min. : 15mm Max. : 185mm



#### No. 10321 BB24G 2 x 4 Balloon Bellows

2 x 4 Balloon Bellows for connecting the front standard of TOYO-VIEW 23G to the rear standard of TOYO-VIEW 45G/C.

Min.: 15mm Max.: 185mm



#### No. 8121 BB57G 5 x 7 Balloon Bellows

5 x 7 Balloon Bellows for TOYO - VIEW 57G.

Min.: 15mm Max.: 300mm



#### No. 11621 BB810GII 8 x 10 Balloon Bellows

8 x 10 Balloon Bellows for TOYO - VIEW 810 G/M.

Min.: 15mm Max.: 355mm



#### No. 10122 BL45R 4 x 5 Long Bellows

4 x 5 Long Bellows for TOYO - VIEW 45 G/C.

Min.: 80mm Max.: 690mm



#### No. 10222 BL23G 2 x 3 Long Bellows

2 x 3 Long Bellows for TOYO - VIEW 23G.

Min.: 50mm Max.: 390mm



#### No. 10322 BL24G 2 x 4 Long Bellows

2 x 4 Long Bellows for connecting the front standard of TOYO-VIEW 23G to the rear standard of TOYO-VIEW 45G/C.

Min.: 58mm Max.: 600mm



#### No. 8122 BL57G 5 x 7 Long Bellows

5 x 7 Long Bellows for TOYO - VIEW 57G.

Min.: 45mm Max.: 700mm



#### No. 8222 BL810G 8 x 10 Long Bellows

8 x 10 Long Bellows for TOYO - VIEW 810G.

Min.: 50mm Max.:1200mm



#### MULTI-FUNCTIONAL G SERIES

The TOYO-VIEW G Series is designed so that all frames, from 6cm x 9cm to 8" x 10" can be used on the same monorail. The smooth and precise movement and durability ensure stable photographing. A variety of interchangeable accessories are available to meet every photographer's needs.

#### STANDARD FRAMES



No. 10103 FF45R Front Standard for ROBOS



No. 11403 FF45GII Front Standard for TOYO-VIEW 45II



No. 10803 FF4GX Front Standard for TOYO-VIEW 45GX



No. 10104 FF45R Rear Standard for ROBOS



No. 11404 FA45GII Rear Standard for TOYO-VIEW45GII



No. 10804 FA45GX Rear Standard for TOYO-VIEW 45GX



No. 11504 FA57GII Rear Standard for TOYO-VIEW 57GII



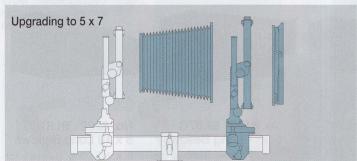
No. 11604 FA810GII Rear Standard for TOYO-VIEW 810GII



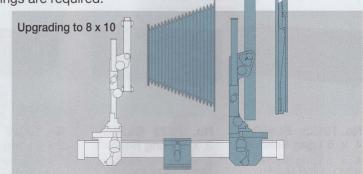
No. 8081 SF45G Extension subframe for bellows

This support frame is manufactured in accordance with TOYO standards. It is useful as a subframe for extending bellows, to hold subjects to photograph, to hold a half mirror, and many other methods of photographing.

☆ For upgrading a 4 x 5 camera to a larger format, the followings are required:



No. 8102 BS57G (5 x 7 Standard Bellows) No. 11503 FA57GII (Rear Standard for 57GII) CB57G (57G Camera Back) No. 8105



No. 11602 BS810GII (810 Standard Bellows) No. 11604 FA810GII (Rear Standard for 810GII) No. 8205 CB810G (810G Camera Back)

OBS8G (810 Tripod Mounting Block) No. 8208



With an exclusive bail arm for attaching/detaching the focusing glass frame. This unique quality of TOYO camera back enables direct insertion of a roll film holder, as with a cut film holder. 6cm x 7cm(No. 8031) and 6cm x 9cm(No. 8033) roll holders are available.



#### 360 Degree 4 x 5 Revolving Camera Backs

The 4 x 5 camera backs revolve 360 degrees freely. They can be locked every 90 degrees with a click stop, enabling the angle of a picture to be adjusted without moving the camera. Image cut-off does not occur when photographing in an intermediate position +/- 10 degrees from the vertical/horizontal position. However, there is a chance of slight image cut-off in other intermediate positions.



#### No. 8005 CB45G STANDARD 4 x 5 CAMERA BACK

360 degree revolving Universal camera back with bail arm for 45G. Chemically etched cm grid ground glass with markings for 6cm x 7cm and 6cm x 9cm formats. Accepts No. 8031 and No. 8033 roll film holders without adaptors.



#### No. 8105 CB57G STANDARD 5 x 7 CAMERA BACK

Vertical/horizontal camera back with dual bail arm for 57G. With chemically etched cm grid ground glass and fresnel lens.

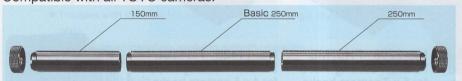


No. 8205 CB810G STANDARD 8 x 10 CAMERA BACK

Vertical/horizontal camera back with dampened dual bail arm for 810G and 810M. Chemically etched cm grid ground glass.

#### TOYO INTERCHANGEABLE MONORAILS

Monorails for TOYO-VIEW G Series, 45C, and ROBOS are all designed with the same specification of a 39mm diameter. Compatible with all TOYO cameras.



No. 10115 OBE150R 150mm Extension Monorail 250mm Basic Monorail

No.10106 OBB250R

No. 10107 OBW250R

- 250mm Extension Monorail
- All interchangeable with the G Series. ★ Monorails can be attached and detached by lining the ends of the basic and extension
- monorails (end caps removed) and twisting one into/out of the other. Finally, tighten using the end caps.
- ★ Monorail ends should be capped for protection while they are not in use.

★ Extension monorails can be attached to either end of a basic monorail.



No. 8810 OB450C 450mm Non-Extendable Monorail for 45C

No. 8811 OB250C 250mm Non-Extendable Monorail for 45C

#### TRIPOD MOUNTING BLOCKS



No. 8008 OBSG Tripod Mounting Block for G Series Quick clamp locking. For TOYO-VIEW 23, 45, 57G and 45C.



No. 8208 OBS8G Tripod Mounting Block for G Series Standard on 57G and 810G. May be used on 4 x 5 cameras for extra stability with long extensions.



No. 10108 OBSR Tripod Mounting Block for ROBOS



No. 7531 SGA **Tripod Mounting Plate** 

Placed between a TOYO-VIEW mounting block and pan head to prevent sliding when moving the camera direction.

#### **FOCUSING HOODS**

Loupes (Magnifiers) and Focusing Hoods for Clear Focusing

Enables clear focusing and 1.5 x magnification. Covered with flexible rubber.



No. 1040 FH23L Monocular Loupe Magnifier(1.5x) for Quick Roll Slider /Roll Film Adaptors. Plastic Body.



No. 1024 FH45L Monocular Loupe Magnifier(1.5x) for 4 x 5 camera backs.

Made of flexible rubber, can be folded into a small size.



No. 1026 FH45R Binocular Reflex Mirror Hood for 4 x 5 camera backs.

Adjustable Mirror.



No. 8226 FH810R Binocular Reflex Mirror Hood for 8 x 10 camera backs.

Built-in 1.5 x Magnifier. Detachable for vertical/ horizontal positioning.



Flexible Mirror Focusina Hoods for Easy Focusing

Balloon Focusing Hoods



No. 1039 FH23S **Folding Focusing** Hood for Quick Roll Slider /Roll Film Adaptors.



No. 2006 FH45MB Folding Focusing Hood for 4 x 5 camera backs.

Keeps out circumferential light, ensuring clear vision and protecting the focusing glass.



No. 2206 FH57MB Folding Focusing Hood for 5 x 7 camera backs.



No. 11425 FH45BL **Balloon Focusing Hood** for 4 x 5 camera backs.

Easy viewing focusing glass without covering cloth. Foldable for storage.



#### REDUCING ADAPTOR BOARDS

☆ The purpose of a reducing adaptor board is to reduce a picture and to extend the flange dimensions.



No. 1635 EXT45A Extension tube for 45A

Extends the flange back by 100mm to use with the 45A.



No. 1232 RB4V5V **Reducing Adaptor Board** 5x7/4x5

For 57G, reducing to 4 x 5 format. Requires No. 8005 ground glass back.



when there is great camera movement.

Reducing Adaptor

No. 1830 RB4V8M Reducing Adaptor Board 8 x 10 / 4 x 5

For 810G / 810M, reducing to 4 x 5 format. Requires No. 8005 ground glass back.



No. 1832 RB4V8M Reducing Adaptor Board 8 x 10 / 5 x 7

For 810G / 810M reducing to 5 x 7 format. Requires No. 8105 ground glass back.

#### **CUT FILM HOLDERS**

Two types of cut film holders are available: No. 10141 for 4 x 5 sheet film and No. 1841 for 8 x 10 sheet film.



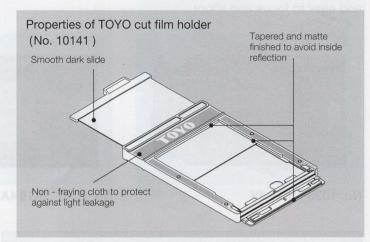
#### No. 10141 CH45 II TOYO Cut Film Holder 45 II

- ★ Inside wall of frame angled and matte finished to avoid reflection
- ★ High quality holder keeps film smooth and flat
- ★ Troubles with inserting film minimized by a wider angle drawing plate
- ★ Finely finished periphery enabling smooth operation
- ★ Non-fraying cloth used to protect against light leakage at the mouth of dark slide
- ★ Rounded corners enable smooth insertion
- ★ Matted finished exterior for comfortable handling

#### No. 1841 CH810 TOYO Cut Film Holder 810

- ★ Cut film holder for 8 x 10 international standard film on both sides
- ★ Same design concept as the one for 4 x 5 format





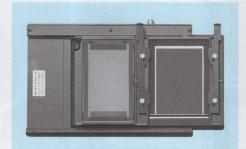




#### QUICK ROLL SLIDER

An adaptor for attaching a roll film holder to the camera when using roll film. Sliding carriage allows focusing with the roll film holder attached, making it quick and easy to focus and shoot.





No. 1035 SGII 4V

No. 1045 SGII 4A

Item No./Code	Applicable Camera(s)	Roll Film Holder
1035 SGII4V	TOYO-VIEW 45G TOYO-VIEW 45C TOYO- FIELD 45A	TOYO roll film holder No.8032, No.8034 Graflok film holder
1045 SGII4A	Any 4x 5 camera with Universal Camera Back	TOYO roll film holder No. 8032, No. 8034 Graflok film holder





#### QUICK ROLL SLIDER FOR SPEEDY PHOTOGRAPHING

For simple and rapid view camera operation when using ground glass focusing with roll film backs. First, compose and focus with the ground glass. Close the lens and cock the shutter. Then slide the roll film back into place for exposure. Models available to fit all brand 4 x 5 cameras with standard Graflok backs and all TOYO 4 x 5 cameras. Replaces only the ground glass frame or entire camera back, depending upon model.

#### **ROLL FILM HOLDERS**

- **★TOYO** roll film holders are manufactured with a unique design to prevent curling of the film
- ★ Rotary film counter
- ★ Smooth and tight film winding
- ★ High precision ratchet



#### Roll Film Holder

No. 8031 and No. 8033 can be loaded without removing the focusing frame, just as when using an ordinary cut film holder.





	TOYO Roll Film Holder 67/45	TOYO Roll Film Holder 69/45
Item No. / Code	No.8031 RFH67/45	No.8033 RFH69/45
Applicable Film	120 Roll Film	120 Roll Film
Nominal Format	6cm × 7cm	6cm × 9cm
Actual Format	56mm × 67mm	56mm × 84mm
Exposures	10 exp.	8 exp.
Film Counter	Rotary Counter	Rotary Counter
Film Winding	Multi - movement winding	Multi - movement winding
Camera Attaching Standard	4 × 5 International Standard(Universal)	4 × 5 International Standard(Universal)
Overall Dimensions	128mm × 211mm × 48mm	128mm × 211mm × 48mm
Weight	670g	670g

	TOYO Roll Film Holder 67	TOYO Roll Film Holder 69
Item No. / Code	No.8032 RFH67	No.8034 RFH69
Applicable Film	120 Roll Film	120 Roll Film
Nominal Format	6cm × 7cm	6cm × 9cm
Actual Format	56mm × 67mm	56mm × 84mm
Exposures	10 exp.	8 exp.
Film Counter	Rotary Counter	Rotary Counter
Film Winding	Multi - movement winding	Multi - movement winding
Camera Attaching Standard	6 × 9 International Standard(Universal)	6 × 9 International Standard(Universal)
Overall Dimensions	113mm × 211mm × 47mm	113mm × 211mm × 47mm
Weight	580g	580g

#### **CARRYING CASES**

★ Variable types of carrying cases are available from TOYO. 

☆ Handles are included in the given dimensions.



No. 8091 Carrying Case for 45G and 45C Dimensions (H) 430mm x (W) 320mm x (L) 570mm Weight 6.9kg



No. 8290 Carrying Case for TOYO-VIEW 810G Dimensions (H) 560mm x (W) 330mm x (L) 590mm Weight 9.0kg



No. 1890 Carrying Case for TOYO-FIELD 810M Dimensions (H) 430mm x (W) 200mm x (L)440mm Weight 4.5kg



No. 10891 Carrying Case for 45GX Dimensions (H) 480mm x (W) 310mm x (L) 500mm



No. 8291 Compact Carrying Case for TOYO-VIEW 810G

Dimensions (H) 560mm x (W) 240mm x (L) 500mm Weight 6.0kg

The camera, with tripod mounting block removed, is stored set on the 150mm extension monorail. Also holds the tripod mounting block and 2 sets of 250mm extension monorails.



No. 8190 Carrying Case for 57G Dimensions (H) 450mm x (W) 340mm x (L) 570mm Weight 7.0kg



Air Case for 45A
Dimensions (H) 280mm x (W) 200mm x (L) 510mm
Weight 2.1kg

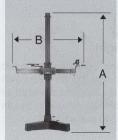
### CAMERA STANDS

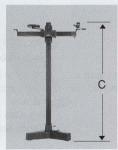
#### **RELIABLE TOYO STUDIO STANDS**

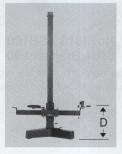
TOYO heavy duty studio weight stands are available in three sizes. All TOYO stands have very fine and smooth roller bearing movements combined with positive locks. Built-in air cylinder mechanisms in the lifting pedal (located at the base) easily lift and lock the entire stand without shock or vibration.

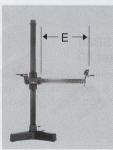


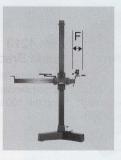
#### ■ Dimensions











#### ■ Specifications

la an	Marian Mari	Code	Dana Cina	Size of Post	Size of Arm	Counter Balance		D	imension	ns(mm)			Weight
Item	Item No.	Code	Base Size	Size of Fost	Size of Affil	Counter balance	Α	В	С	D	Е	F	vveignt
7ft. TOYO Studio Stand 101	40	TWS101	φ 920 mm	104 sq. mm	84 sq. mm	8kg ~ 20kg	2,215	1,270	2,070	530	880	180	89.0 kg
9ft. TOYO Studio Stand 101L	41	TWS101L	φ 1,100 mm	104 sq. mm	84 sq. mm	8kg ~ 20kg	3,015	1,270	2,870	530	880	180	98.5 kg
6ft. TOYO Studio Stand 81	42	TWS81	φ 840 mm	84 sq. mm	64 sq. mm	6kg ∼ 15kg	1,765	1,070	1,620	495	680	180	63.0 kg

#### STUDIO STAND ACCESSORIES



#### No. 7501 TTHM-II TOYO Pro Pan Head M-II

TOYO Pro Pan Head is rigid and reliable, with 3-way pan head action, and can be used on any stand or tripod with a 3/8" thread. Specially designed for large format cameras. Spirit levels and scales included.



No. 7531 SGA Rapid Mount Adaptor

For rapid alignment of TOYO-VIEW camera mounting blocks to TOYO Pro Pan Heads. Inserts between block and pan head.



No. 4011 AGE Geared Column

The geared column fits on the end of the cross arm to control the camera position with gear drive.



No. 4012 LAP Low Angle Arm

Fits on the end of the cross arm to accommodate the camera at an extra low angle. It holds the pan head only 50mm from the floor at its lowest position.



No. 3812 DA Double Head Swivel Arm

Rotates 360 degrees and accommodates two pan heads. Can be used to mount extra-extended view cameras, using two mounting blocks for balance.



No. 4213 SB80 Slide Bracket 80

The Slide Bracket fits on the intermediate position of the cross arm to accommodate an extra pan head. The Slide Bracket 80 is for Stand No. 42 and the 100 is for Stands No. 40 and 41.



No. 4013 SB100 Slide Bracket 100

When the load is rather light, the sub weight acts as a counter balance on the arm. Supplemental weight of 3kg. Can only be used with Studio Stands No. 40 and 41.

No. 4014

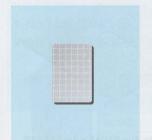
Sub Weight



#### DIMENSIONS FOR FLANGE BACK COMBINATION.

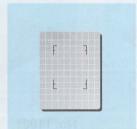
#### GROUND GLASS FOCUSING SCREENS AND FRESNEL LENSES

☆ TOYO Focusing Screens are made of acid etched cm grid ground glass with a fine matte finish for firm confirmation of horizontal and vertical positioning.



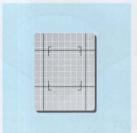
No. 217 GG23

Replacement 6 x 9cm ground glass for 23G camera backs and Quick Roll Sliding Adaptors.



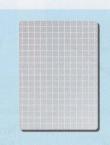
No. 8015 GG45G

Replacement ground glass for TOYO standard 4 x 5 camera backs.



No. 10117 GG45R

Replacement ground glass for TOYO ROBOS 4 x 5 camera backs.



No. 219 GG57

Replacement ground glass for TOYO 5 x 7 camera backs.



No. 1815 GG810

Replacement ground glass for TOYO 8 x 10 camera backs.



No. 216 FL23

Replacement Fresnel lens for TOYO-VIEW 23G camera backs and Quick Roll Sliding Adaptors.



No. 212 FL45

Replacement Fresnel lens for TOYO ROBOS, 45G, and 45A 4 x 5 camera backs.



No. 213 FL57

Replacement Fresnel lens for TOYO 5 x 7 camera backs.

#### INFINITY STOPS, SPIRIT LEVELS, AND LENS MOUNT WRENCHES



No. 1300 SPS Infinity Stops

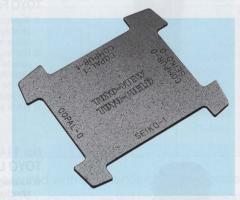
☆ Pair of additional infinity stops for TOYO-FIELD 45A and 810M cameras. Can be folded when not in use.



No. 8071 Spirit Levels

☆ Single housing, dual axis spirit levels.

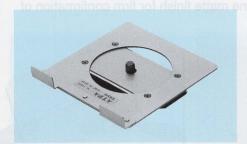
Standard on all TOYO cameras except 45A.



No. 4511 Lens Mount Wrenches

☆ Convenient tool for mounting and dismounting lenses with Copal, Compur, and Seiko #0 and #1 shutters on any lens board.

#### PAN HEAD PLATES



No. 12032 Mounting Adaptor Plate for TOYO-FIELD 45A II/QRC

For setting 45A and 45A II to QRC camera Auto-Quick Release



No. 12031 Anti-Twist Plate for 45A and 45A II

Inserted between TOYO-FIELD 45A or 45AII and Pan Head (No. 7501 M-II) to prevent unwanted movement of the camera



No. 11931 Anti-Twist Plate for 810M and 810M II

For TOYO-FIELD 810M and 810MI to prevent unwanted movement of the camera

## TOYO PRO PAN HEAD M - II



#### No. 7501 TPPHM - II

- ☆ Rigid and reliable, with 3-way pan head action
- ☆ Can be used on any stand or tripod with a 3/8" thread
- ☆ Specially designed for large format cameras
- ☆ Removable handle and spirit levels included
- ☆ With both 1/4" and 3/8" interchangeable camera mounting



No. 7531 Rapid Mount Adaptor

For rapid adjustment of TOYO-VIEW camera mounting blocks to TOYO Pro Pan Heads. Inserts between block and pan head

#### TOYO FOCUSING LOUPE (MAGNIFIER)

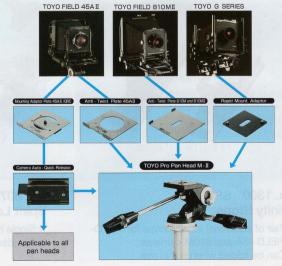


#### No. 11426

#### **TOYO Focusing Loupe Magnifier**

- ☆ The focusing magnifier (3.6x) is placed directly on the ground glass for critical focusing
- With an eye cup for comfort and a rubber case to protect the ground glass
- Magnification is low enough so that it can be used while wearing glasses
- Composed of light and solid aluminum
- ☆ Neck strap included





#### No. 11427 **TOYO Loupe Superior 4X**

- ☆ 4x magnification suitable for checking ground glass image

  ☆ Adjustable eyepiece
- ☆ Metal body
- ☆ Interchangable black and clear hoods
- ☆ Neck strap

### **DIMENSIONS FOR FLANGE BACK COMBINATION**

#### SPECIFICATIONS OF TOYO CA

#### How to use the table:

Select the applicable criteria from each of the three categories : (1)lens board, (2)camera body, and (3)camera back, then total the dimensions given (TV = TOYO-VIEW, TF = TOYO-FIELD)

- No.108 TV45GX
- No.114 TV45GII

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V 45	45
G	G
Х	Ш

Lens Board (1) - 1	Lens Board Adaptors (1) -	2 (2) - 1	(2) - 2	(2) - 3	(2) - 4	(3) - 1	(3) - 2
No.10101 2.0mm					No.		
No.1129 —38.0 mm			1	Camera Body	Camera Body		
No.1601 2.2mm	No.1052 —1.4 mm	Camera Body	Camera Body	Using	Using		
	No.1057 —39.7mm	Using Balloon Bellows	Using Balloon Bellows	Standard Bellows	Long Bellow	Camera Back No.8005	Quick Roll Slider (No.1035)
No.117 2.3mm	No.1051 —1.6mm	Min. Dimensions	Max. Dimensions	Max. Dimensions 466 mm.	Max. Dimensions GX - 690 mm	17.05 mm	35.4 mm
	No.1056 —39.8 mm	71mm	340 mm	Min. Dimensions	GI - 500mm		
No.5081 1.9mm	No.1050 —0.7 mm			76 mm			
	No.1055 —38.7mm						

- No.120 TF45AII
- No.130 TF45AIL

T F 45 A II	T F 45 A F
П	L

Lens Board (1) - 1	Lens Board Adaptors (1) - 2	(2) - 1	(2) - 2	(3) - 1	(3) - 2
No.1601 2.2mm					
No.1640 —24.8mm					
No.12040 —12.5 mm		Camera Body	Camera Body	Camera Back	Quick Roll Slider
No.117 2.3mm	No.1631 9.1 mm	Min. Dimensions	Max. Dimensions	No.8005	(No.1035)
No.5081 1.9mm	No.1630 10.0mm	51mm	304 mm	17.05 mm	35.4mm
6 x 9	No.1632 2.2mm		1 [		
Horseman Board	No.1637 —24.8mm				

- No.116 TV810GII
- No.119 TF810MI

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8	8
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G	M

Lens Board (1) - 1	Lens Board Adaptors (1) - 2	(2) - 1	(2) - 2	(2) - 3	(2) - 4	(3) - 1	(3) - 2
No.10101 2.0mm							
No.1129 —38.0 mm							- Reducing Adaptor
No.1601 2.2mm	No.1052 —1.4mm	TV810GII		TF810MI	TF810MI	Camera Back	Boards
	No.1057 —39.7mm	Min. Dimensions	Max. Dimensions	Min. Dimensions	Max. Dimensions	No.8205	No.1830
No.117 2.3mm	No.1051 —1.6mm	67mm	482mm	70 mm	804 mm	16.35 mm	1.6mm +No.8005
	No.1056 —39.8mm	1					Camera Back
No.5081 1.9mm	No.1050 —0.7mm						(+17.05mm)
	No.1055 —38.7mm						

★ "Maximum Dimensions" are the dimensions measured with the standard set monorails (250mm + 250mm). For longer monorails, add the dimensions needed from an extension monorail to obtain the desired length. Bellows can be added by use of sub frames.

### Monorail-type Cameras

Item No. Code	No.89	5C	No.109	5CX	No.108	5GX	No.114	5GII	No.122 VX1 No.123 VX1		No.124	25R
Format	4 × 5 inch	1	4 × 5 inch	1	4 × 5 inch	1	4 × 5 inch	1	$4 \times 5$ inch		4 × 5 inch	
Camera Back	Revolving back	Universal	Vertical / I		· ·	Universal fresnel lens		Universal resnel lens	Revolving back with f		Revolving back with fr	
Monorail	39 mm in c standard 4 non extend	150 mm,	39 mm in o standard 4 non extend	50 mm,	39 mm in o standard 2 + 250 mm, extension	250 mm unlimited	39 mm in c standard 2 + 250 mm, extension	50 mm unlimited	39 mm in d 125 mm to with use of pipe	315mm	39 mm in d standard 1 unlimited e capacity	25 mm,
Movement	Front Frame	Rear Frame	Front Frame	Rear Frame	Front Frame	Rear Frame	Front Frame	Rear Frame	Front Frame	Rear Frame	Front Frame	Rear Fran
Rise	120 mm	120mm	80 mm	80 mm	145mm	145 mm	145 mm	145 mm	70 mm	70 mm	70 mm	70 mm
Left Shift	45 mm	45mm	30 mm	45 mm	35 mm	35 mm	35 mm	35 mm	30 mm	30 mm	30 mm	30 mm
Right Shift	45 mm	45mm	30 mm	45 mm	35 mm	35 mm	35 mm	35 mm	40 mm	40 mm	40 mm	40 mm
Swing	360°	360°	30°+30°	30°+30°	30°+30°	30°+30°	30°+30°	30°+30°	25°+25°	25°+25°	25°+25°	25°+2
Axis Tilt												
Base Tilt					45°+45°	45°+45°		1	25°+25°	25°+25°	25°+25°	25°+2
Centre Tilt	48°+48°	48°+48°	45°+45°	45°+45° (Vertical) 40°+40° (Horizontal)	45°+35°	45°+35°	45°+35°	45°+35°				
Fine Focus	42 mm	42mm	42mm	42mm	60 mm	60 mm	60 mm	60 mm	30 mm	30 mm	30 mm	30 mm
Flange Back Length	82mm ~ 4	149mm	80 mm ~ 4	35 mm	99 mm ~ 4	185 mm	99 mm ~ 4	.85 mm	67 mm ~ 32 (with exter		69 mm ~ 1	36 mm
Min. Flange with Wide Angle Board		42 mm		67.5mm		50 mm		50 mm		27 mm		27 mm
Folded Height		352mm		322 mm		397mm		340 mm		302 mm		304 mm
Dimensions Width		274mm		277 mm		266 mm		266 mm		226 mm		219mm
Length		474 mm		478 mm		291 mm		291 mm		125 mm		125 mm
Weight	4.1 k	kg / 9 lbs	3.6kg	/ 7.9 lbs	6.4kg/	14.1 lbs	5.5 kg /	12.1 lbs	2.7 kg /	5.9 lbs	2.7kg	/ 5.9 lbs

Field-type	<b>Technical</b>	Cameras
------------	------------------	---------

No.115	7GII	No.116 TV81	OGII	
$5 \times 7$ inch	1 12 10 114	8 × 10 ind	ch	
Vertical / h Graflok typ fresnel len	oe with	Vertical / h Graflok typ		
39 mm in o standard 2 + 250 mm, extension	250 mm unlimited	39 mm in d standard 2 + 250 mm, extension	50 mm unlimited	
Front Frame	Rear Frame	Front Frame	Rear Frame	
145 mm	130 mm	145mm	170 mm	
35 mm	35 mm	35 mm	60 mm	
35 mm	35 mm	35 mm	60 mm	
30°+30°	30°+30°	30°+30°	30°+30°	
45°+35°	45°+35°	45°+35°	50°+50°	
60 mm	60 mm	60 mm	60 mm	
76 mm ∼ 5	00 mm	85 mm ~ 500 mm		
	36 mm	45mm		
	385 mm		471 mm	
	328 mm	445 mm		
	291 mm		291 mm	
5.8kg /	12.8 lbs	8.9 kg /	19.6 lbs	

Item No. Code		No.120 <b>TF45AI</b>		No.130 <b>TF45AI</b> L		No.119 TF810MⅡ	
Format		4 × 5 inch		4 × 5 inch		8 × 10 inch	
Camera Back		Revolving Universal back with fresnel lens		Revolving Universal back with fresnel lens		Vertical / horizontal Graflok type	
Movement		Front Frame	Rear Frame	Front Frame	Rear Frame	Front Frame	Rear Frame
Rise		20 mm		20 mm		44 mm	
Fall		23 mm		28 mm		46 mm	
Left Shift		7 mm		7 mm		40 mm	
Right Shift		7 mm		7 mm		40 mm	
Swing		8°+8°	8°+8°	8°+8°	8°+8°	360°	6°+6°
Base Tilt		90°+15°	90°+15°	90°+15°	90°+15°	90°+15°	90°+15°
Front Extension		89 mm		89mm		230 mm	
Yoke Focusing		91 mm		91 mm		154 mm	
Rear Extension		71 mm		71 mm		186 mm	
Flange Back Length		70 mm ~ 324 mm		70 mm ~ 324 mm		88 mm ~ 822 mm	
Min. Flange with Wide Angle Board		43 mm				48 mm	
Folded Dimensions	Thickness	107 mm		107mm		158mm	
	Height	188mm		188 mm		366 mm	
	Width	209mm		209 mm		379 mm	
Weight		2.8 kg / 6.2 lbs		2.8 kg / 6.2 lbs		6.8 kg / 15 lbs	

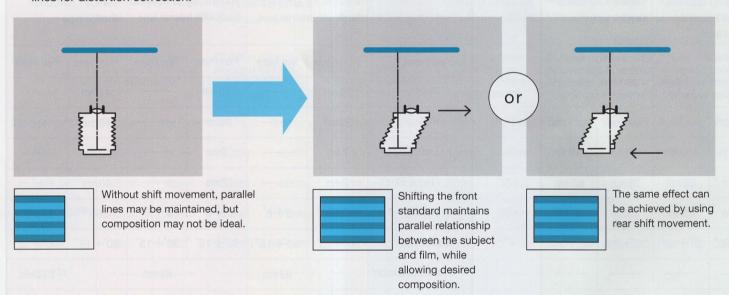
### **Basic Camera Movements**

EPAS

A 35mm SLR camera has lens and film plane fixed in a parallel relationship. However, an adjustable view camera can allow you to change the relationship between the lens and film plane by using camera movements. With these movements, you can control plane of focus, perspective and image shape and distortion.

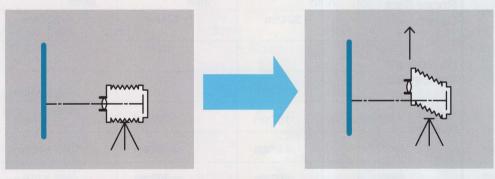
#### **☆ Shift movement**

Front or rear shift allows control of composition and maintains parallel lines for distortion correction.



#### ☆ Rise & Fall Movement

Rising or dropping the front or rear standard can also be used to maintain parallel lines and correct composition and distortion.





Tilting the entire camera upwards allows viewing an entire building, but created distortion of lines not parallel with the film plane. Maintaining the film parallel to the subject does not allow seeing the top of the building or subject.

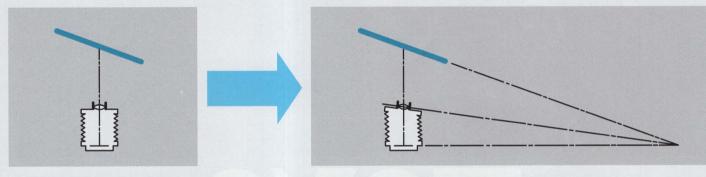


Front rise movement maintains parallel relationship of the film to the subject, while allowing the lens to "see" from a higher viewpoint.



#### **☆ Swing Movement**

Pivoting the front or rear standard horizontally allows control of depth of field, focus and object shape and size.





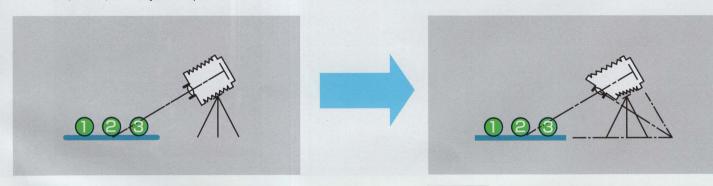
Without camera movements, depth of field can only be increased by using a smaller lens aperture.



By using front swing, you can adjust your plane of focus to increase depth of field, or match the subject's plane of focus without requiring the use of a smaller lens aperture.

#### **☆ Tilt Movement**

Tilting the front or rear standard vertically also allows control of depth of field, focus, and object shape and size.





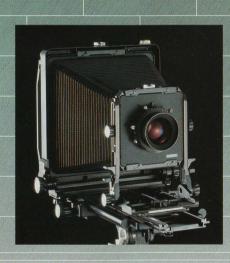
Without proper adjustment of front tilt, only ball #2 is in focus.



With front tilt, depth of field can be increased to bring all balls into foucs. With rear tilt, perspective or image shape can also be adjusted.









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