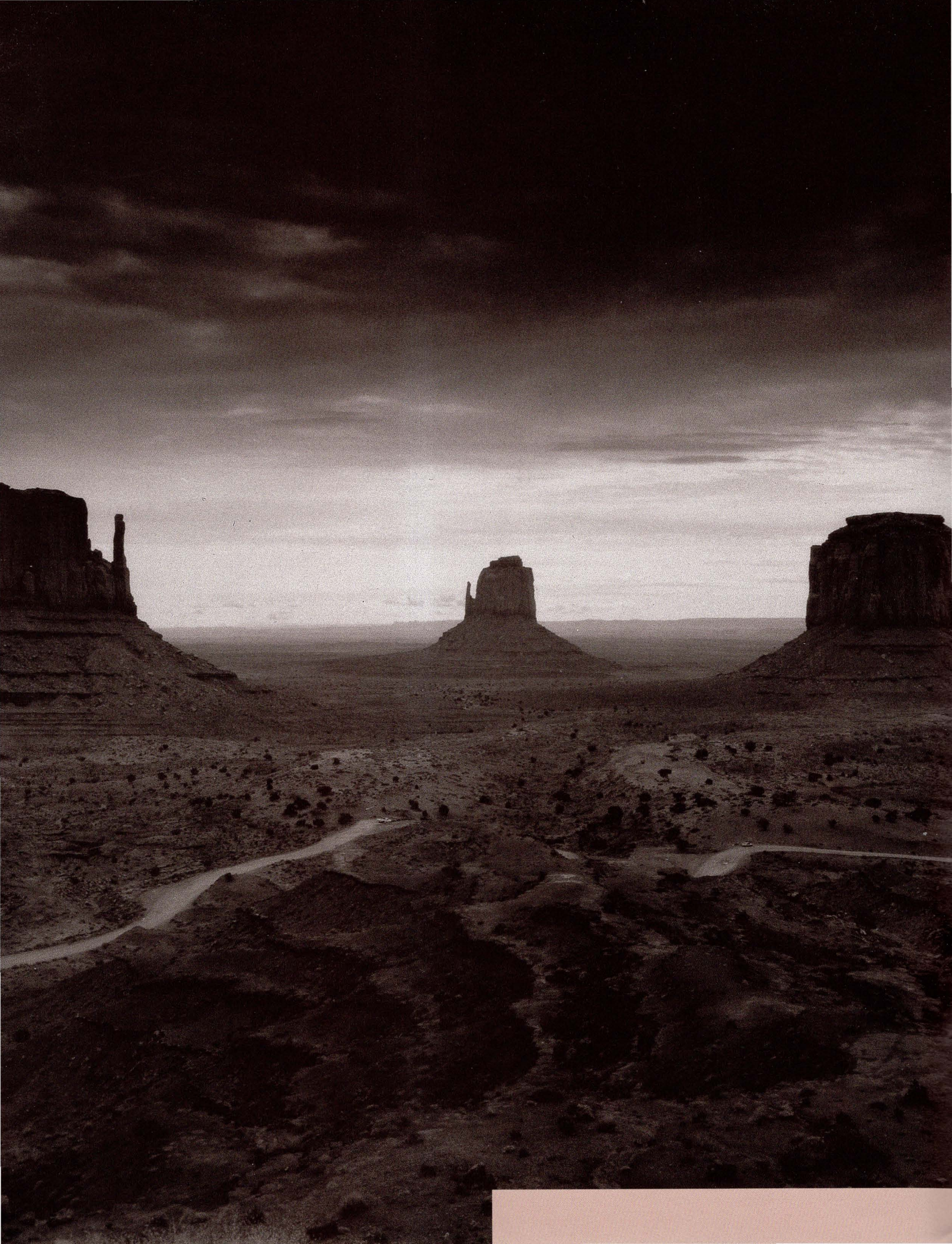


# TOYO-VIEW 45CX

Modular System









## THE TOYO-VIEW 45CX

OFFERS EXCEPTIONAL VALUE IN A FULL FEATURED,  
PORTABLE AND MODULAR SYSTEM 4X5 CAMERA



THE 45CX PERFORMS FOR DEMANDING PROS as well as discriminating fine art photographers. ■ As part of the Toyo modular system, the 45CX accepts versatile accessories including interchangeable bellows, lens hoods and boards, and accepts a wide variety of film holders, digital backs, and viewing accessories. ■ As a result, the 45CX is an economical, yet full featured modular system alternative to buying limited "dead end" entry level cameras. And its price and value puts the 45CX in a

class by itself. ■ Toyo's modular system design allows your 45CX camera to grow with your needs and talents. ■ The functional and ergonomic design of the 45CX allows you to easily experience and master the principles of large format photography. ■ The camera construction uses computer aided design and high tech alloy and polycarbonate material for maximum strength and rigidity with minimum weight and cost. In fact, the 45CX weighs only 7.9 lbs.



## 45CX FEATURES

### CREATIVE IMAGE CONTROL

Camera movements are key to creative image control with a large format camera. With these controls, correction of perspective and distortion, adjustment of depth of field, and manipulation of selective focus are easy. ■ The Toyo 45CX features a complete range of movements with logical and straightforward optical axis center tilt design, ideal for studio, table top, architectural or field use. ■ The 45CX's

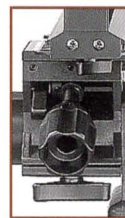
center tilt design maintains focus and composition as you tilt. The center tilt design makes independent fine adjustment of depth of field and image shape fast and easy. And the 45CX movements are yaw-free, with direct displacement, using rise and fall, with the monorail level. ■ The simple operation of the 45CX allows the front tilt and swing to control focus, depth of field, and overall image size, while the rear tilt and swing movements control object shape and distortion. ■ Convenient, identical controls on front and rear standards speed operation and expand your movement capability. And

independent locks on all controls speed accuracy and repeatability of settings. ■ All movements also have zero or neutral position detents for easy and fast alignment. ■ The 45CX control knobs and locking levers are ergonomically designed for easy grip.



### PRECISION GEARED MICRO-FINE FOCUSING

Silky smooth microfine rack and pinion geared focusing with independent locks are combined with fast focusing movement on both front and rear standards. ■ This allows fast and easy adjustment of both focus, as well as image size and magnification, critical for architectural, close-up and table top photography.



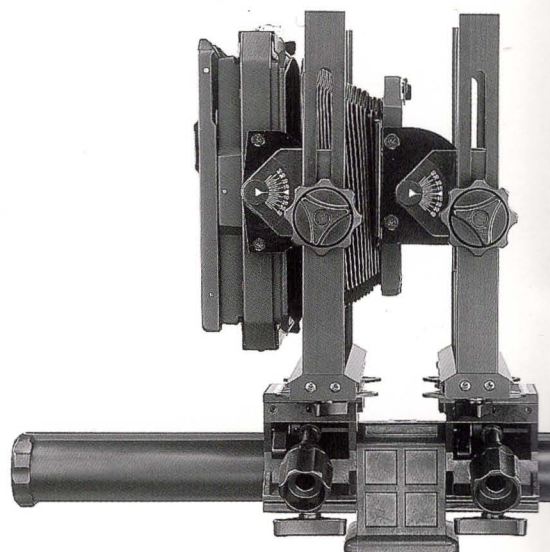
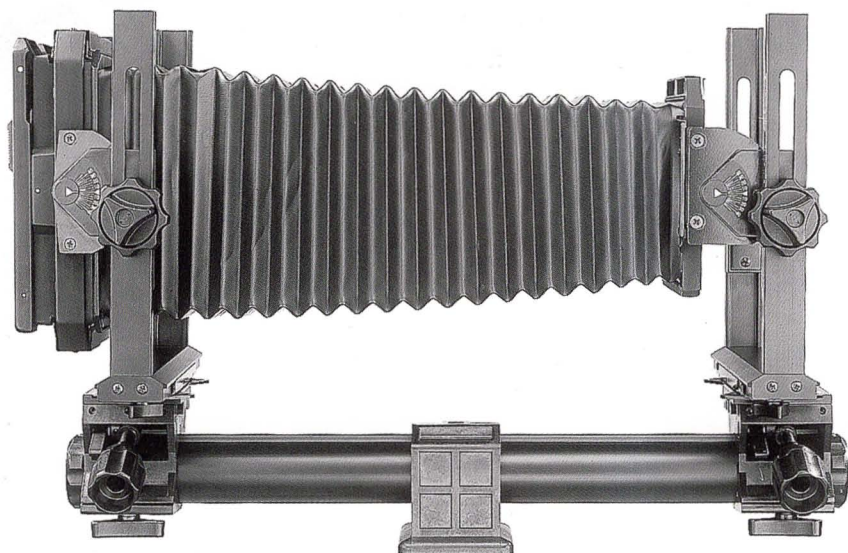
### INTERCHANGEABLE BELLOWS

System compatibility is an essential feature when considering a large format camera. When you start with the Toyo 45CX, you invest in a system that grows as you grow. ■ The 45CX features functional and economical design combining compact front frame and tapered standard bellows. ■ For example, the popular

90mm wide angle focal length can be used on a flat lens board with standard 45CX bellows, offering easy access to all lens controls and use for landscape photography. ■ Yet the modular design allows the 45CX to accept all wide angle lenses down to 58mm with optional recessed lens board and wide angle bellows. The interchangeable Toyo Flexilast bellows is



made of a special durable material which permits camera movements without bellows vignetting.



The 45CX features functional and economical design combining compact front frame and tapered standard bellows.





Photographs by Martin S. Silverman ©1998

## PRECISION MONORAIL

The strength and precision of a view camera monorail is critical because it acts as an "optical bench." ■ The 45CX front and rear frames, or "standards," travel on an interchangeable, rigid 450mm (18") monorail with alignment guide. ■ The robust 39mm diameter monorail and strong front and rear standards maintain a stable support for use with telephotos or long extensions in close-up or macro work. It offers rock-solid extension and comfortable balance especially with heavier telephoto lenses. ■ The 45CX's full extension with standard bellows and monorail permits use of up to 210mm lenses down to 1:1 life size macro work. Even a standard design 360mm lens can be focused to six feet for versatility in studio and portrait work.

## REVERSIBLE VERTICAL / HORIZONTAL INTERNATIONAL GRAFLOK BACK

Changing from vertical to horizontal framing is easy with Toyo's interchangeable and reversible back. For complete versatility, the 45CX back features Graflok fittings for use with any type of film holder and even digital backs. ■ Stainless steel springs secure sheet film holders and assure precision film plane alignment. ■ Toyo's ground glass features centimeter grid lines and



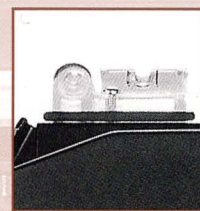
reference markings for 6x7cm and 6x9cm roll film formats, permitting critical composition. The grids and markings also simplify composition with creative 6x12cm panoramic format. ■ The 45CX reversible back also accepts an optional Toyo super-brite fresnel lens in front of the ground glass. This enables even illumination and consistent precision focusing, even with extreme wide angle lenses. ■ The back accepts all Toyo system viewing accessories, including reflex magnifying hood.

## FILM HOLDERS

The 45CX back opens wide enough to accept all 4x5 cut film holders, Kodak Readyload®, Fuji Quickload®, Polaroid Film Holder Model 545, as well as Toyo Roll Film Holders, without removing the ground glass.

## SPIRIT LEVEL

The dual axis (horizontal and vertical) spirit level on the camera rear standard permits convenient alignment of the camera in neutral position. The levels can also be used to bring the camera back to the vertical position when correcting for lines in architectural or product photography.





# TOYO SYSTEM ACCESSORIES

## LENS ACCESSORIES

### LENS BOARDS AND ADAPTERS

To accommodate the wide variety of lenses available, Toyo offers an array of compact, easy to store, lens boards and lens board adapters for the 45CX. Recessed lens boards accommodate short focal length lenses greater movement capability. Adapters allow mounting other brand lens boards. Compact Toyo 110mm lens boards and adapters are fully compatible with TOYO-VIEW 45CX and TOYO-FIELD 45A, 45AI and 45AX cameras, and can be fitted to TOYO 4x5 and 8x10 cameras with an adapter board.

### FLAT LENS BOARDS, 110MM SQUARE

Un-drilled. Can be drilled for any shutter size opening  
#180-629

Pre-drilled for 90mm to 180mm lenses with #0 shutter  
#180-621

Pre-drilled for 180mm-270mm lenses with #1 shutter  
#180-622

Pre-drilled for 270mm to 500mmT lenses with #3 shutter  
#180-618

### 12.5MM RECESSED LENS BOARD, 110MM SQUARE

Pre-drilled for 58mm to 90mm lenses with #0 shutter  
#180-640

### ANGLE CABLE RELEASE ADAPTERS

Facilitates easy installation of standard cable releases to view camera lens shutters, especially when mounted on a recessed lens board.

Angle cable release adapter for lenses w/ #0 shutters  
#180-641

Angle cable release adapter for lenses w/ #1 shutters  
#180-642

### LENS BOARD ADAPTERS

Linhof to Toyo 110mm square  
#180-635

Linhof style lens board, un-drilled  
#180-638  
(Adapts Linhof Technika style board to Toyo 110mm for Toyo 45CX and Toyo-Field 4x5 cameras.)

Graflex to Toyo 110mm square  
#180-636

Graflex lens board (#0)  
#180-637  
(Adapts round corner Graflex lens boards to Toyo 110mm square.)

Toyo 110mm to Toyo 158mm  
#180-631  
(Adapts Compact Toyo 110mm lens boards to Toyo 158mm for Toyo 4x5 and 8x10 cameras.)

### TOYO LENS WRENCH

Spanner wrench specifically designed to secure lenses with #0 or #1 shutters on drilled lens boards. #180-625

### TOYO PRO COMPENDIUM LENS HOOD

A lens hood is essential for the elimination of extraneous light and flare, which can seriously deteriorate image contrast and sharpness. The Toyo Pro Compendium Lens Hood works with a wide variety of lens brands and focal lengths, and flexibly adjusts regardless of the lens position or camera movement used. It also features a swing-up mount for easy access to shutter controls.

Since large format cameras accept a wide selection of lenses from many manufacturers, you might need a variety of filter sizes. The Toyo Pro Compendium Lens Hood provides an elegant solution with the use of standard gel filter holders, both 3" and 4", included with the hood. Additionally, optional Extension Rods (#180-604) can be used to extend the hood out further for very long lenses.  
#180-623

SET OF 3" AND 4" GEL FILTER  
HOLDERS FOR COMPENDIUM HOOD  
(replacement)  
#180-609

### EXTENSION RODS

Extends Compendium Hood for use with long lenses.  
#180-604

## INTERCHANGEABLE BELLOWS

### 45CX WIDE ANGLE BAG BELLOWS

Wide Angle or "bag" type bellows allow a short focal length lens to move closer to the film, and achieve greater freedom of movement. Ideal for architectural interior and table top product photography for lenses 58 - 90mm.



#180-694

## INTERCHANGEABLE MONORAILS

Toyo 39mm diameter fixed monorails are lightweight and economical. They can be interchanged with extendable Toyo G series monorails for extra-long extension requirements. This is required when connecting two bellows for super telephoto or macro photography. To extend the TOYO-VIEW 45CX beyond 435mm, replace the fixed monorail with a Basic monorail (#180-740) and add extension monorails on either end. Optional intermediate frame and 4x5 G series bellows are also required for extension beyond 435mm.



250MM (10") FIXED MONORAIL FOR  
WIDE ANGLE LENSES  
#180-711

250MM (10") GX BASIC EXTENDABLE  
MONORAIL  
#180-740

500MM (20") GB EXTENSION  
MONORAIL  
#180-745

250MM (10") GX EXTENSION  
MONORAIL  
#180-741

### INTERMEDIATE STANDARD

It is positioned in between the front and rear standard of the 45CX camera, and can be used to connect optional Toyo G series 4x5 bellows #180-690. It has manual tilt / swing / shift / rise movements for bellows adjustment. Chrome finish only.  
#180-831

## TRIPOD MOUNTING BLOCKS

TOYO tripod mounting blocks for rigid alignment and secure mounting to the wide 39mm diameter monorail system. Optional quick-clamp mounting block allows easy removal and attachment of camera to tripod.

45CX TRIPOD MOUNTING BLOCK  
W/ 1/4" & 3/8" SOCKETS  
(replacement)  
#180-720

TOYO G CAST ALUMINUM 54MM QUICK  
CLAMP TRIPOD MOUNTING BLOCK W/  
1/4" & 3/8" SOCKETS  
#180-714



## FOCUSING HOODS

In the field or on location, where wind and other elements can pose problems, focusing hoods are highly effective and convenient. In the studio, focusing hoods add to convenience, speed and productivity.

Toyo offers several solutions. Interchangeable on all Toyo 4x5 cameras, Toyo focusing hoods feature a fast attaching spring-loaded pin and lock design. They also swing away from the groundglass for using a focusing magnifier or loupe.

### TOYO 4x5 FOLDING FOCUSING HOOD

The Folding Focusing Hood conveniently protects the groundglass while folded and eliminates the need for a focusing cloth in many lighting situations, including ambient studio and outdoor light.



#180-808

### TOYO 4x5 MONOCULAR FOCUSING HOOD

The Monocular Focusing Hood has a single 1.5x magnifying eyepiece, mounted atop a flexible rubber hood, for lightweight and compact packing. It eliminates extraneous light and can be used for corner-to-corner viewing of the groundglass. When detached from the camera, it can also be used as a magnifier for viewing an entire 4x5 transparency or negative on a light box.



#180-809

### TOYO 4x5 BALLOON FOCUSING HOOD

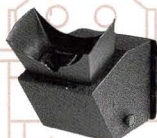
Compact and folding Balloon Focusing Hood uses bag bellows material to provide easy access and viewing of the groundglass.



#180-841

### TOYO 4x5 REFLEX VIEWING HOOD

Exceptional for studio use, the Reflex Viewing Hood eases eye strain and allows convenient right-side-up viewing. The image remains reversed from right to left. The Reflex Viewing Hood features a special swing-away mounting frame. The frame has twin slide locks that allow fast and easy attachment of the Reflex Viewing Hood in vertical or horizontal position. In addition, it has a removable 1.5x twin magnifying eyepiece.



#180-812

## BACKS & ACCESSORIES

### TOYO 4x5 V/H REVERSIBLE BACK

4x5 BACK

(replacement)

#180-820

### TOYO 4x5 360° REVOLVING BACK

(INCLUDES GROUNDGLASS & FRESNEL LENS)

#180-805

### TOYO SUPERBRITE™ FRESNEL LENS

KIT W/ SPACERS FOR 45CX

Fits under groundglass for extra-bright, even illumination and focusing with all lenses from wide angle to telephoto.

#180-803

### 4x5 PLAIN GRID GROUNDGLASS

(replacement)

#180-801

### SHEET AND ROLL FILM HOLDERS

To match the precision of the 45CX camera, Toyo manufactures their own precision sheet and roll film holders. The 45CX also accepts other brands of sheet and roll film holders including 6x12cm panoramic backs, Polaroid® Instant Proofing Holders, Kodak Readyload® and Fuji Quickload® Film Holders.



### TOYO 6x7 ROLL FILM HOLDER #180-725

### TOYO 6x9 ROLL FILM HOLDER #180-726

### TOYO PRECISION 4x5 DOUBLE CUT FILM HOLDERS TWIN PACK



With precision metal septum, durable construction and exacting film plane tolerances within 0.003". Dark slides slip in and out smoothly without ever disturbing holder position. Wide flap opening permits easy film loading.

#180-903

### TOYO 4x5 DARK SLIDE

(replacement)

#180-910

## MISCELLANEOUS ACCESSORIES

### TOYO 3.6X FOCUSING MAGNIFIER WITH NECK STRAP

The Toyo 3.6x focusing magnifier is placed directly on the groundglass for critical focusing. The long tubular design offers a comfortable distance for viewing and has a rubber base to protect the groundglass.



#180-301

### TOYO PROFESSIONAL FOCUSING CLOTH

The traditional solution to viewing the groundglass image. 36x48" washable black polyester cloth has reverse white side for reflecting heat while shading the camera.



#180-302

## CASES

### ALUMINUM CARRYING CASE FOR TOYO 4x5 CAMERAS

Aluminum case carries camera with lenses, accessories and film holders. 22.5x12x16.5" 16lbs.

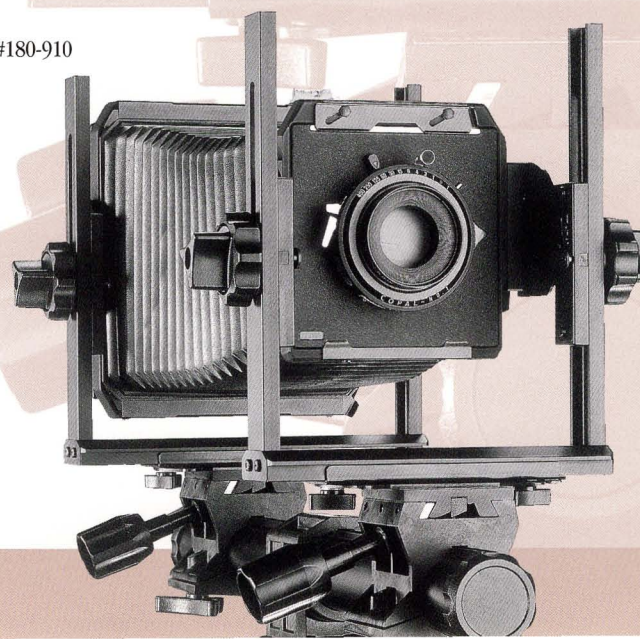


#180-905

### TOYO 45CX NYLON CARRY CASE

Case fits Toyo 45CX camera with lens and accessories.

#180-907





## SPECIFICATIONS

### TOYO-VIEW 45CX MONORAIL CAMERA

#### GENERAL

- Versatile, economical, full movements view camera, for studio, location and field
- Compact standards and tapered bellows design
- Rugged, light alloy and polycarbonate construction
- Rear Dual Axis Spirit Level
- Rigid, Interchangeable 450mm (18") 39mmØ monorail with alignment guide

#### BELLOWS

- Interchangeable Bellows w/ Tapered Design
- Toyo Flexilast Material

#### MOVEMENTS

- Micro Fine Geared Focus on front & rear
- Tilt, Swing, Rise, Fall and Shift on front and rear standards
- Center tilt design maintains focus and composition as you tilt
- Yaw-free with direct displacement

#### CAMERA BACK

- Reversible Vertical /Horizontal Graflok Type
- Accepts all 4x5 cut film holders, Kodak Readyload®, Polaroid® 4x5, and roll film holders - 6x7cm, 6x9cm, 6x12cm with Graflok fitting

#### SYSTEM ACCESSORIES

- Accepts Toyo Modular System Accessories

#### TECHNICAL DATA

##### Center Tilt

front 45+45°

rear 45+45° vertical  
(40°+40° Horizontal)

##### Swing

front 30+30° rear 30+30

##### Rise

front 80mm rear 80mm

##### Shift

front 30+30mm

rear 45+45mm

##### Geared Focusing

front +/- 21mm

rear +/- 21mm

##### Size:

W 10.9 x H 12.6 x L 18.8"

##### Weight:

7.9 lbs.

##### Minimum Extension

80mm w/ flat lens board

67.5mm w/ recessed 12.5mm board

##### Maximum Extension

435mm (17.4")

#### Minimum Focusing Distance Specifications

(may vary with different lens manufacturers)

58mm*	3.5"
65mm*	4"
75mm*	5"
90mm*	6"
150mm	9.5"
210mm	16.2"
300mm	3.6 ft
360mm	6 ft

\*(wide angle lenses w/ optional recessed board & WA bellows)

Specifications subject to change without notice.

## CAMERA & LENS OUTFITS

The Toyo 45CX is available body only, or with 150mm or 210mm lenses mounted on lens board.

Choosing a lens for your 4x5 camera is easy because you will often find that two basic lenses, a normal and wide angle, will cover most of your needs.

For a general purpose standard lens, the 150mm focal length is popular. It is equivalent to a 45mm lens in 35mm format.

The slightly longer 210mm focal length is used as a standard lens for most professional applications, allowing a greater working distance to the subject, and more flattering perspective for products and portraits. It is equivalent to a 63mm lens in 35mm format.

**TOYO-VIEW 45CX CAMERA  
W/ #1 LENSBOARD** # 180-109

**TOYO-VIEW 45CX W/ 150MM F/6.3  
LENS IN COPAL #0 SHUTTER** # 180-110

**TOYO-VIEW 45CX W/ 210MM F/6.8  
LENS IN COPAL #1 SHUTTER** # 180-111



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