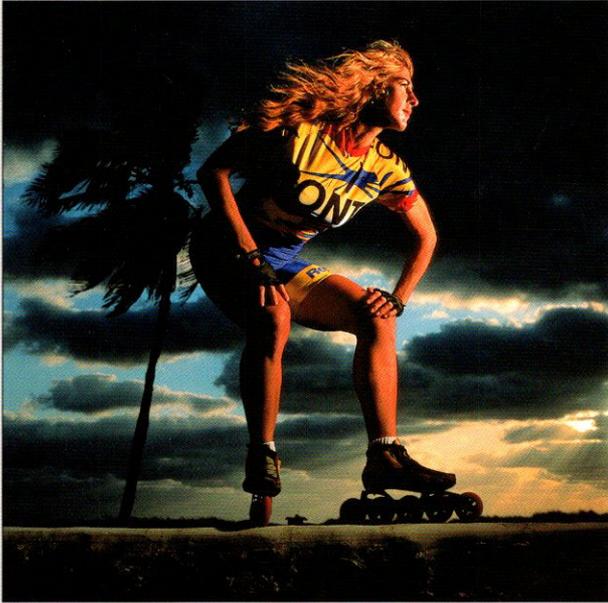


# H A S S E L B L A D

## PRODUCT CATALOG 2000



# Millennium Hasselblad

For more than a half-century, the Hasselblad system has earned a world-wide reputation for outstanding image quality, versatility, proven reliability and constant and obsolescence-proof product development.

For decades it has been the largest and most complete camera system for professional medium format photography and the first choice of the world's leading photographers.

We intend to keep it this way. It is a system we are proud to produce – and proud to offer the discerning photographers of the new millennium.

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# CAMERAS

*Within the Hasselblad system you can choose between ten different camera models offering various features to perfectly match your requirements and way of working.*

## 500 SERIES

The primary series which has been developed and refined for nearly half a century. The 500 series camera models are designed to use the Hasselblad CFi/CFE/CF and CB leaf shutter lenses, providing shutter as well as flash sync speeds of up to 1/500 s.

## 200 SERIES

The camera models of the 200 series feature extremely precise multi-mode exposure metering systems. Equipped with electronically controlled focal plane shutters with speeds of up to 1/2000 s, the 200 series camera models use either their own range of large aperture FE lenses and film magazines with databus connections or lenses with built-in leaf shutters and standard film magazines.

## WIDE - ANGLE AND TECHNICAL CAMERAS

Whenever maximum image quality has top priority in wide-angle photography, the 903SWC should be the proper choice. It is uncompromisingly built for one of the world's finest wide-angle lenses, the 91° Zeiss Biogon CF 38 mm.

Two technical cameras with shift and tilt facilities allow adjustment of perspective and depth-of-field. The advanced ArcBody utilizes its own lens series, while the FlexBody is designed for the Hasselblad lenses with built-in shutters.



## THE DUAL FORMAT CAMERA FOR 35 MM FILM

The Hasselblad XPan is a unique camera capable of producing both regular 24x36 mm images and stunning 24x65 mm panoramas on the same roll of 35 mm film. It is the only dual format camera that expands the format when switching to panorama format, instead of masking it from an ordinary 24x36 mm frame.

## SCIENTIFIC AND METRIC CAMERAS

In addition to the standard Hasselblad camera lines, there is a number of camera models and accessories specially designed for scientific and technical applications such as photogrammetry, data recording and aerial photography.

## 500 SERIES

### **501CM** The primary model for a vast variety of photographic applications

For many photographers, amateurs and professionals alike, the 501CM is the gateway to medium format and the superb Hasselblad image quality. Its totally battery-independent operation also appeals to Hasselblad owners who need a back-up camera in their outfit. The patented Gliding Mirror System (GMS) provides a full viewfinder image with virtually all lenses, irrespective of focal length. It is compatible with all CFi/CFE/CF and CB lenses, film magazines, viewfinders and most current and previous accessories.

### **503cw** The versatile and most advanced 500 series model for demanding professional photography

The 503CW is the reliable tool for all discerning photographers. The built-in TTL flash metering system, which automatically measures the light off the film for consistent flash exposures, as well as the option to use the Winder CW, even with remote control, make it convenient to operate in or out of the studio. It is fitted with the Gliding Mirror System (GMS) to provide a full viewfinder image with virtually all lenses, irrespective of focal length. It is compatible with all CFi/CFE/CF and CB lenses, film magazines, viewfinders and most current and previous accessories.

### **555ELD** The ideal studio camera for conventional and digital photography

Besides being perfect for conventional studio photography, special features also place the 555ELD at the forefront of professional digital imaging. Connectors on the camera's magazine mount interface directly with corresponding connectors on the digital back and a special release port on the camera front can be used to activate the digital back.

The camera's integral motor drive offers a frame rate of up to 1.2 frames per second. Using the optional IR Release unit and IR Remote control, the 555ELD can be operated without cables from distances up to 10 m (33').

Like the 503CW it features the TTL/OTF flash metering system and is compatible with all CFi/CFE/CF and CB lenses and most current and previous accessories.



Leading manufacturers adapt their digital backs to interface with the Hasselblad 555ELD.

## 501CM

Available in chrome or black trim and supplied as a separate body or as a kit comprising camera body, lens and film magazine.

Weight: body only 590 g (1 lb 5 oz),  
kit 1565 g (3 lb 7 oz).



### **501CM camera body, chrome**

Code **10238**

Supplied with the following equipment:

Focusing hood, chrome	<b>42315</b>
Focusing screen Acute-Matte D	<b>42204</b>
Standard strap	<b>59110</b>
Front protective cover	<b>51438</b>
Rear cover MultiControl	<b>51070</b>

### **501CM camera body, black**

**10240**

Supplied as 10238 above, but equipped with black Focusing hood 42323.

### **501CM standard kit, chrome**

**11051**

Complete camera comprising 501CM camera body, chrome Zeiss Planar CB 2.8/80 mm (see page 19) and Film magazine A12 – 6x6, chrome (see page 32).

### **501CM standard kit, black**

**11054**

Complete camera comprising 501CM camera body, black Zeiss Planar CB 2.8/80 mm (see page 19) and Film magazine A12 – 6x6, black (see page 32).

# 503cw

Available in chrome or black trim and supplied as a separate body without lens and film magazine.  
Weight: camera body 610 g (1 lb 6 oz).



## 503CW camera body, chrome

Supplied with the following equipment:

Winding crank E	44086
Focusing hood, chrome	42315
Focusing screen Acute-Matte D	42204
Standard strap	59110
Front protective cover	51438
Rear cover MultiControl	51070

## 503CW camera body, black

Supplied as 10243 above, but equipped with black Focusing hood 42323.

Code 10243

10246

# 555ELD

Available in chrome or black trim and supplied as a separate body without lens, film magazine and batteries.

Weight: camera body without batteries  
1125 g (2 lb 8 oz).



## 555ELD camera body, chrome

Supplied with the following equipment:

Focusing hood, chrome	42315
Focusing screen Acute-Matte D	42204
Front protective cover	51438
Rear cover MultiControl	51070
Carrying strap	46140
Fuses, 2 pcs	56111
Release button	46120
Release cord FK30	46043
Socket cap	46175

Code 10277

## 555ELD camera body, black

Supplied as 10277 above, but equipped with black Focusing hood 42323.

10279

## 200 SERIES

### **202FA** Efficient and easy to use for hand-held work in varying lighting conditions

*A camera that combines professional image quality with ease of operation. With the Winder F and the selective area TTL metering system set to automatic exposure, you can work efficiently with full concentration on the subject. The use of flash is facilitated by the built-in TTL/OTF flash metering. The camera is primarily designed for the FE lenses, but can also use the CFi/CFE/CF lens range, utilizing the focal plane shutter only. The shutter provides speeds from 34 min to 1/1000 s.*

### **203FE** Fast and accurate for critical indoor or outdoor photography

*Equipped with selective area TTL exposure metering and focal plane shutter speeds up to 1/2000 s, the 203FE is ideal for fast moving subjects in rapidly changing lighting conditions. The state-of-the-art electronics allow automatically controlled exposures, bracketing and TTL/OTF flash metering. It is primarily designed for FE and CFE lenses with databus connections, but can also be used with CFi/CF and CB lenses. With a leaf shutter lens either the leaf or the focal plane shutter can be utilized. The 203FE is compatible with most current and previous accessories, including the Winder F.*

### **205FCC** The precise photographic instrument for total exposure control

*The most advanced Hasselblad camera model featuring an extremely precise spot metering system. Its multi-mode aperture-priority metering options provide total exposure control in both colour and black/white photography. You can choose between four different function modes, as well as auto bracketing and fill-in flash control. The electronically controlled focal plane shutter provides shutter speeds from 34 min up to 1/2000 s. Like the 203FE, the 205FCC is primarily designed for FE and CFE lenses, but will also accept CFi/CF and CB lenses as well as the Winder F and most current and previous accessories.*

## 202FA

Available in chrome or black trim and supplied as a separate body without lens and film magazine. Weight: camera body 750 g (1 lb 10 oz).



#### **202FA camera body, chrome**

Code **10542**

Supplied with the following equipment:

Winding crank E	<b>44086</b>
Focusing hood E, chrome	<b>42317</b>
Focusing screen Acute-Matte D 202/203	<b>42210</b>
Standard strap	<b>59110</b>
Front protective cover	<b>51438</b>
Rear cover MultiControl	<b>51070</b>

#### **202FA camera body, black**

**10546**

Supplied as 10542 above, but equipped with black Focusing hood E 42325.

**NOTE:** The 202FA in black trim is to be discontinued during 2000.

## 203FE

Available in chrome or black trim and supplied as a separate body without lens and film magazine.  
Weight: camera body 760 g (1 lb 11 oz).



### 203FE camera body, chrome

Code **10561**

Supplied with the following equipment:

Winding crank E	<b>44086</b>
Focusing hood E, chrome	<b>42317</b>
Focusing screen Acute-Matte D 202/203	<b>42210</b>
Standard strap	<b>59110</b>
Front protective cover	<b>51438</b>
Rear cover MultiControl	<b>51070</b>

### 203FE camera body, black

Code **10574**

Supplied as 10561 above, but equipped with black Focusing hood E 42325.

**NOTE:** The 203FE in black trim is to be discontinued during 2000.

## 205FCC

Available in chrome trim and supplied as a separate body without lens and film magazine.  
Weight: camera body 760 g (1 lb 11 oz).



### 205FCC camera body, chrome

Code **10588**

Supplied with the following equipment:

Winding crank E	<b>44086</b>
Focusing hood E, chrome	<b>42317</b>
Focusing screen Acute-Matte D 205	<b>42213</b>
Standard strap	<b>59110</b>
Front protective cover	<b>51438</b>
Rear cover MultiControl	<b>51070</b>



### External battery cassette

Code **43023**

An alternative source of power for the 200 series cameras to be used in extremely cold conditions. The cassette can be loaded with four 1.5V AA type (LR6) batteries and its plug replaces the battery cassette of the camera. The coiled cord makes it possible to warm the cassette, e.g. in a pocket.

**NOTE:** To be discontinued during 2000.

## WIDE-ANGLE and TECHNICAL CAMERAS

### 903swc

The ultimate super wide-angle camera for all-round architectural, landscape and industrial photography

The 903SWC camera is uncompromisingly designed for top quality wide-angle photography. The permanently attached Zeiss Biogon CF 38 mm lens provides a diagonal 91° angle of view, virtually distortion-free image reproduction, superb corner-to-corner sharpness and remarkable depth-of-field. The optical viewfinder incorporates a spirit level, which facilitates horizontal positioning of the camera. The 903SWC accepts all Hasselblad film magazines as well as a focusing screen adapter, which makes it possible to use any Hasselblad viewfinder.

See facts about the Biogon CF 38 mm on pages 15-16  
**NOTE:** A motorized version of the 903SWC – the 903SWCE – is also available. See Scientific and metric cameras on page 13 for information.

### FlexBody

The ideal tilt and shift tool for creative and experimental work

The FlexBody offers the creative Hasselblad owner a broader spectrum of image variations and effects than conventional medium format cameras. The bellows and adjustable rear standard provide a  $\pm 28^\circ$  tilt capability for depth-of-field control as well as offering a shift option. With its variable extension of up to 22 mm, the FlexBody can also be used for close-ups. As it uses the Hasselblad CFi/CFE/CF and CB leaf shutter lenses, film magazines and a focusing screen adapter for the viewfinders, the FlexBody is easy to integrate into an existing Hasselblad outfit.

### ArcBody

The compact shift and tilt camera system for perspective and depth-of-field control

The ArcBody with its own accessory system and a special range of Rodenstock lenses is a powerful medium format technical camera. The large image circles of the lenses provide a shift capability of 0-28 mm without any vignetting of the film. With its generous shift potential and additional tilt function it is the perfect tool for controlling the perspective and depth-of-field in critical indoor or outdoor photography. All Hasselblad film magazines are compatible with the ArcBody and using a focusing screen adapter you can fit any of the Hasselblad viewfinders.

## 903swc

Available in chrome trim and supplied as a separate body with optical viewfinder and fixed Zeiss Biogon CF 4.5/38 mm lens.  
Weight: 940 g (2 lb 1 oz).



### 903SWC camera body, chrome

Supplied with the following equipment:

Viewfinder SWC	52036
Standard strap	59110
Front lens cap	51643
Rear cover MultiControl	51070

Code 10052

### Zeiss Biogon CF 4.5/38 mm

See description and table on pages 15-16 for detailed information.

# FlexBody

Supplied with its basic accessories, without lens and film magazine.  
Weight: body only 700 g (1 lb 9 oz).



## FlexBody

Supplied with the following equipment:

Focusing screen adapter standard	<b>41057</b>
Stray light protection slide	<b>72411</b>
Correction slide 10°	<b>72413</b>
Correction slide 20°	<b>72415</b>
Cable release	<b>57689</b>
L-connector	<b>50776</b>
Format mask 4x5 cm	<b>72419</b>
Rear cover MultiControl	<b>51070</b>
Front protective cover	<b>51438</b>
Carrying case	<b>72516</b>

Code **72109**

# ArcBody

Supplied as a separate body with basic accessories but without lens and film magazine, or in kits also including the Rodenstock 35 mm or 45 mm lens, Centre filter and Reflex viewfinder RMfx.  
Weight: body only 550 g (1 lb 3 oz).



## ArcBody

Supplied with the following equipment:

Focusing screen adapter, standard	<b>41057</b>
Correction slide S (small)	<b>47003</b>
Correction slide M (medium)	<b>47007</b>
Correction slide L (large)	<b>47011</b>
Cable release	<b>57689</b>
Filter holder	<b>57695</b>
Centre filter holder	<b>47018</b>
Lens shade 35/45	<b>47024</b>
Rear cover MultiControl	<b>51070</b>
Front cover ArcBody	<b>57692</b>
Carrying case	<b>58480</b>

Code **17015**

## ArcBody Grandagon 35 kit

**17508**

Consists of 17015 ArcBody as listed above, plus the following:

Rodenstock Apo-Grandagon 4.5/35 mm	<b>27035</b>
Centre filter	<b>47057</b>
Reflex viewfinder RMfx	<b>47070</b>

## ArcBody Grandagon 45 kit

**17511**

Consists of 17015 ArcBody as listed above, plus the following:

Rodenstock Apo-Grandagon 4.5/45 mm	<b>27045</b>
Centre filter	<b>47057</b>
Reflex viewfinder RMfx	<b>47070</b>

The dual format rangefinder camera combining 35 mm convenience with medium format image quality

The Hasselblad XPan uses 35 mm film to produce the standard 24x36 mm format as well as the 24x65 mm full panorama format. The switching between the two formats can be done whenever required on the same roll of film and without any waste of film. When taking panorama pictures the XPan expands the image format to a width similar to that of a 6x7 cm medium format image, instead of masking it from an ordinary 24x36 image. This unique feature ensures a yet unsurpassed image quality within 35 mm photography.

The camera's aperture priority TTL metering system is centre-weighted and averaged to produce an automatic system including auto bracketing and manual override.

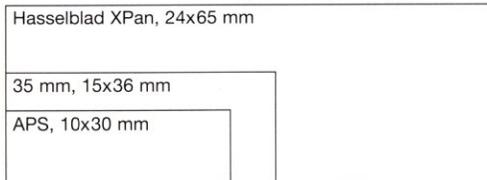
The camera's focal plane shutter provides shutter speeds from 8 s to 1/1000 s with flash synchronization at all speeds up to 1/125 s.

The integral motor can be set for single exposures or continuous exposure with up to 3 frames per second in 24x36 mm mode and 2 frames per second in panorama mode.

The XPan system includes three extremely lightweight and compact medium format lenses – the Hasselblad 5.6/30 mm Aspherical, 4/45 mm and 4/90 mm. See detailed information on page 22.

When mounting a lens to the camera its focusing mechanism is automatically coupled to the rangefinder.

Further information about the XPan is available on our internet site: [www.hasselblad.com](http://www.hasselblad.com)



The Hasselblad XPan panorama covers a film area of 24x65 mm, which is 2.9 times larger than other 35 mm panorama camera formats and 5.2 times larger than the corresponding APS format.

# Hasselblad **X**PAN

Supplied as a separate body without lens or as a kit.  
Weight: camera body without batteries 720 g (1 lb 9 oz).



### Hasselblad XPan camera body

Code **14010**

Supplied with the following equipment:

Spirit level XPan	<b>54418</b>
Quick-coupling plate XPan	<b>44408</b>
Strap XPan	<b>54403</b>
Front protective cap XPan	<b>54415</b>
Batteries	

### Hasselblad XPan kit

**14450**

Complete camera comprising Hasselblad XPan camera body as listed above, Hasselblad 4/45 mm lens and Lens shade 45/90 XPan 54406.



### Hasselblad 5.6/30 mm Aspherical

Code **24013**

The new Hasselblad 5.6/30 mm Aspherical lens is supplied with a bright frame add-on viewfinder with a built-in spirit level, which covers the ultra wide-angle view of the lens. Also included are a centre filter and a lens shade, both dedicated to the lens. See page 22.

New

## Comparison chart of camera features

	<b>501CM</b>	<b>503CW</b>	<b>555ELD</b>	<b>202FA</b>	<b>203FE</b>	<b>205FCC</b>	<b>903SWC</b>	<b>FlexBody</b>	<b>ArcBody</b>	<b>XPAN</b>
<b>Camera type</b>	All mechanical SLR camera using leaf shutter lenses.			Electronic SLR focal plane shutter camera.			All mechanical non-reflex camera.	Technical leaf shutter camera.		Rangefinder camera with focal plane shutter.
<b>Film formats</b>	Medium format 6x6 cm (2 1/4x2 1/4") and 6x4.5 cm (2 1/4x1 5/8") by interchangeable film magazines and different film types (120, 220, 70 mm and Polaroid).									24x36 / 24x65 mm on 135 type film.
	Format masks for 6x4.5 cm and 6x3 cm.							Format masks for 6x4.5 cm and 6x3 cm.		
<b>Film magazines</b>	6x6 cm – A12: 12 exp/120 film. A24: 24 exp/220 film. Magazine 70: 70 exp/70 mm film. Magazine PolaPlus: 8-10 exp/instant film. 6x4.5 cm – A16: 16 exp/120 film. A32: 32 exp/220 film.									
				6x6 cm – E12: 12 exp/120 film. E24: 24 exp/220 film. 6x4.5 cm – E16: 16 exp/120 film.						
						6x6 cm – E12 CC: 12 exp/120 film.				
<b>Lenses</b>	CFi/CFE/CF/CB			FE/CFi/CFE/CF	FE/CFi/CFE/CF/CB		Biogon CF 38 mm	CFi/CFE/CF/CB	ArcBody lenses	XPan lenses
<b>Shutter speeds</b>	1 - 1/500 s using lens leaf shutter.			34 min - 1/1000 s with focal plane shutter.	34 min - 1/2000 s with focal plane shutter, 1/500 with lens leaf shutter.		1 - 1/500 s with lens leaf shutter.			8 - 1/1000 s with focal plane shutter.
<b>Viewing system</b>	Single lens reflex. Focusing hood interchangeable with magnifying hoods, prism and meter prism viewfinders.						Optical viewfinder with spirit level. Optional focusing screen adapter.	Supplied with focusing screen adapter for use with all Hasselblad viewfinders.		Viewfinder with lens-coupled rangefinder.
				Instant return mirror.						
<b>Winding</b>	Manual	Manual or automatic with Winder CW.	Automatic with integral motor.	Manual or automatic with Winder F.			Manual			Automatic with integral motor.
<b>Exposure metering</b>	Optional meter prism viewfinders provide manually operated TTL spot metering, centre-weighted TTL integral metering or incident light metering.			Integral multi-mode, programmable TTL metering systems. Aperture priority, automatic or manual operation.			Optional meter prism viewfinders provide manually operated TTL spot metering, centre-weighted TTL integral metering or incident light metering.			Integral centre-weighted TTL metering. Aperture priority, automatic or manual operation.
				Centre-weighted meter covering 20% of the image area.		Spotmeter covering 1% of the image area.				Auto bracketing
				Auto bracketing when optional Winder F is used.						
<b>Flash control</b>	Manual. X-sync flash terminal on the lens.	Centre-weighted TTL/OTF flash metering system. Film sensitivity ISO64-4000.		Centre-weighted TTL/OTF flash metering system. Film sensitivity ISO25-1000.			Manual. X-sync flash terminal on the lens.			
<b>Flash sync</b>	1 - 1/500 s.			1 - 1/90 s with focal plane shutter.	1 - 1/90 s with focal plane shutter, 1/500 with lens shutter.		1 - 1/500 s.			8 - 1/125 s.
<b>Shift/tilt</b>	Shift ±8-16 mm with Zeiss PC-Mutar 1.4X Shift Converter and lenses with a focal length of 40-100 mm.							Shift ±15 mm Tilt ±28°	Shift 0-28 mm Tilt ±15°	
<b>Battery</b>	No battery required.		5x1.5V size AA	1xPX28			No battery required.			2xCR2
<b>Additional features</b>	Gliding mirror system (GMS).		Integrated contacts and separate release port for digital backs.			Unique ZONE mode for advanced tone and contrast control.	Motorized version-903SWCE – also available.	Integral bellows extension 0-22 mm.	Correction slides for improved viewing.	Regular and panorama formats on the same roll of film.
<b>Approx. weight</b> (body + standard lens + magazine)	1500 g (3 lb 5 oz)	1545 g (3 lb 7 oz)	2150 g (4 lb 12 oz)	1610 g (3 lb 9 oz)	1640 g (3 lb 10 oz)	1640 g (3 lb 10 oz)	1365 g (3 lb)	1635 g (3 lb 10 oz)	1475 g (3 lb 4 oz)	955 g (2 lb 1 oz)

# SCIENTIFIC AND METRIC CAMERAS

More detailed descriptions of the Hasselblad products for scientific and metric photography are presented on our internet site:  
[www.hasselblad.se/products/tech\\_photo.html](http://www.hasselblad.se/products/tech_photo.html)

## Photogrammetry

For photogrammetry there are two metric cameras equipped with a Reseau glass plate with optical quality equal to that of lens elements. The surface of this glass plate has a pattern of hair-line crosses which are reproduced on the film as reference points. The cameras are calibrated together with their lenses and use specially designed film magazines giving 24 or 70 exposures. Both cameras feature an integral motor for film and shutter winding.

For further information and special delivery conditions, please contact:  
 Technical Photography Group.  
 Victor Hasselblad AB.  
 Box 220, SE-401 23 Göteborg, Sweden  
 Tel. +46 31-10 24 60 Fax +46 31-10 25 38  
 e-mail: sales.tech@hasselblad.se



### Hasselblad MKWE

The optimum precision and extremely low image distortion make the MKWE especially useful for critical architectural photography, as well as close range and aerial photogrammetry. The integral motor enables sequence exposures at a rate of up to 1.2 frames/s.

The permanently attached Zeiss Biogon CF 4.5/38 mm lens provides a diagonal 91° angle of view, virtually distortion-free image reproduction, superb corner-to-corner sharpness and remarkable depth-of-field. The Biogon lenses for MKWE are specially manufactured by Carl Zeiss to extremely tight manufacturing specifications to meet the high precision requirements of photogrammetry. The MKWE camera body is fitted with a Reseau plate in front of the film plane.

Each MKWE camera body is individually calibrated and should be used with the MK film magazines. The calibration certificate is supplied with the camera.

Weight: camera body and lens 1790 g (3 lb 15 oz).

#### MKWE camera body

Code **61035**

Supplied with fixed special Zeiss Biogon CF 4.5/38 mm and the following equipment:

Viewfinder SWC	<b>52036</b>
Release button	<b>46116</b>
Release cord FK30	<b>46043</b>
Fuse, 2 pcs	<b>56111</b>
Front lens cap	<b>51643</b>
Carrying case MK	<b>65084</b>
Calibration certificate	

### Hasselblad MK70

Motor driven metric camera with Reseau plate. The camera uses either of two individually calibrated and matched photogrammetric lenses of 60 and 100 mm focal length and special MK film magazines. The integral motor enables sequence exposures of up to 1.2 frames/s.

Weight: body only 1249 g (2 lb 12 oz).

#### Lenses for MK70

Zeiss Biogon CF 5.6/60 mm	Code <b>62015</b>
Weight: 740 g (1 lb 10.12 oz)	
Zeiss Planar CF 3.5/100 mm	<b>62023</b>
Weight: 610 g (1 lb 5.54 oz)	

#### MK70 camera body

**61018**

Supplied with the following equipment:

Viewfinder MK70	<b>65021</b>
Viewfinder mask MK70/100	<b>65048</b>
Release button	<b>46116</b>
Release cord FK30	<b>46043</b>
Fuse, 2 pcs	<b>56111</b>
Front protective cover	<b>51438</b>
Carrying case MK	<b>65084</b>
Calibration certificate	

#### Film magazines for MK70 and MKWE

Magazine 70/70MK	<b>63002</b>
Weight: 540 g (1 lb 3.1 oz)	
Magazine 70/24MK	<b>63024</b>
Weight: 375 g (13.2 oz)	

## Motorized Wide-Angle Camera



### Hasselblad 903SWCE

In this special version, the 903SWC camera body is equipped with an integral motor to enable sequence exposures of up to 1.2 frames per second and remote control. All other features and optical specifications are equal to those of the 903SWC camera body and the standard Zeiss Biogon CF 4.5/38 mm lens. See pages 8, 15 and 16.

Weight: camera body and lens 1555 g. (3 lb 7 oz).

### 903SWCE camera body

Supplied in black trim with fixed standard Zeiss Biogon CF 4.5/38 mm and the following equipment:

- Viewfinder SWC
- Release button
- Release cord FK30
- Fuse, 2 pcs
- Front lens cap

Code **61085**

**52036**

**46116**

**46043**

**56111**

**51643**

## Magazines for 70 mm film



### Magazine 70, chrome

Code **30066**

### Magazine 70, black

**30139**

6x6 cm (2 1/4x2 1/4") format on 70 mm perforated film, available in rolls of 30 to 100 m. Uses film cassettes, which can be loaded with up to 4.7 m of film, giving up to 70 frames per cassette. Supplied with an empty cassette **51039** and magazine slide **41068**. Weight: 530 g (1 lb 2.5 oz).

**NOTE:** Magazine 70 can be used on all Hasselblad medium format cameras but cannot be combined with the prism viewfinders PM90 and PME90. The MK70 and MKWE metric cameras use specially designed film magazines for 70 mm film.

### Film cassette for magazine 70

**51039**

The cassette may be loaded with perforated 70 mm film in lengths of up to 4.7 m, giving up to 70 frames per cassette.



### Reflex viewfinder RM2

**52183**

An eye-level viewfinder designed for use with the Film magazine 70. Its extra large eyepiece provides an unreversed 3x enlarged image of the entire focusing screen, even with spectacles. The eyepiece can be adjusted  $\pm 5$  dioptres. Supplied with protective cover **42064**.

**NOTE:** To be discontinued during 2000.

## Hasselblad Data Recording System

Two different Hasselblad data recording film magazines with annotation of up to 32 characters directly on the film. Since the text is exposed as the film is advanced, a motorized camera is required.

### GPS Software

**63355**

By using the Hasselblad GPS Software, a Psion Organizer, a GPS receiver and a Hasselblad data recording magazine, the actual geographic position, date and time can be recorded on the film next to the image.

# LENSES

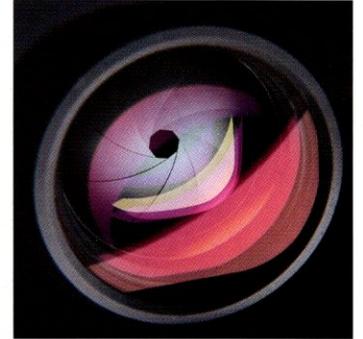
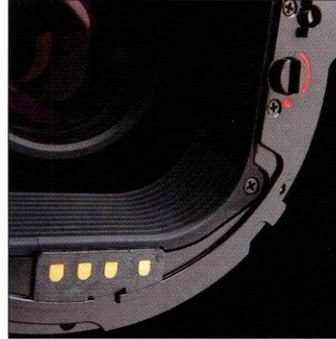
*To ensure the highest possible optical quality, the wide range of Hasselblad lenses is built by the world's most prominent lens manufacturers, such as Carl Zeiss and Rodenstock in Germany.*

## CFi/CFE/CF LENSES

The main lens series with focal lengths from 30 mm to 500 mm. Primarily designed for the 500 series camera models they incorporate an integral leaf shutter providing the camera with both shutter and flash sync speeds of up to 1/500 s.

These lenses can also be used on the 200 series cameras as well as on the FlexBody. When used on the 203FE and 205FCC you have the unique option to utilize either the lens leaf shutter or the camera's focal plane shutter.

Three different designations separate the lenses of this series. CF stands for the original version, while CFi and CFE indicate that a number of substantial improvements have been made to provide the definitive image quality and improve the long-lasting reliability and handling comfort. The CFE lenses are even fitted with databus connections, making them fully compatible with the metering system of the 200 series cameras.



## FE LENSES

The large aperture FE lenses with focal lengths from 50 mm to 350 mm, are exclusively designed for the 200 series cameras. Unlike other Hasselblad SLR camera lenses they do not have a built-in shutter. Instead the focal plane shutter of the camera is utilized.

In this series you will find the fastest lenses in medium format photography, the FE 110 mm with maximum aperture  $f/2$  and the FE 300 mm Tele-Superachromat with aperture  $f/2.8$ .

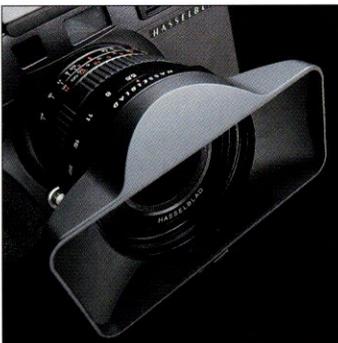
All FE lenses are equipped with databus connections, which automatically transfer information of the preset lens aperture to the exposure metering systems of the 202FA, 203FE and 205FCC camera models.

## CB LENSES

The CB lenses are comparable with the CFi and CFE lenses in optical quality and ergonomic design but more basic in functionality. They are primarily designed for the 500 series camera models, but can also be used on the 203FE, 205FCC and FlexBody cameras.

## ARCBODY LENSES

The ArcBody technical camera utilizes its own series of specially designed Rodenstock lenses. It consists of three lenses of 35, 45 and 75 mm focal lengths, characterized by large image circles. Although they share the same bayonet mount as the Hasselblad SLR camera lenses, they may only be used on the ArcBody.



## XPAN LENSES

The need for lenses with large image circles is also quite obvious when taking 24x65 mm panorama pictures with the Hasselblad XPan dual format camera. Its special lens series consists of three lenses including the new Hasselblad 5.6/30 mm Aspherical.

## CONVERTERS

The focal lengths of the Hasselblad SLR camera lenses can be further extended by using 1.4x and 2x converters.

*For further information on the lenses, please ask your Hasselblad dealer for our comprehensive Lens brochure.*

## CFi/CFE/CF lenses – wide-angle 30, 38, 40, 50 mm

The Distagon and Biogon lenses provide angles of view ranging from the extreme 180° “fish-eye” lens down to 67° diagonal angle of view giving a moderate wide-angle effect.

Technical specifications of the lenses on this page are presented in the table on the next page.



### CF 38

#### Zeiss Biogon CF 4.5/38 mm

The Biogon lens with a 91° diagonal angle of view is virtually distortion-free and offers remarkably close focusing and superb corner-to-corner sharpness. At f/22 the depth-of-field ranges from 0.6 m (26") to infinity. It is permanently attached to the 903SWC and 903SWCE camera bodies.

See pages 8 and 13.



### CFi 30

Code 20178

#### Zeiss Distagon CFi 3.5/30 mm

This Hasselblad “fish-eye” lens covers the entire 6x6 cm field with corner-to-corner sharpness, even with the lens wide open. Supplied in a leather case with three filters: a yellow 50636, an orange 50644, a conversion filter for using daylight-type film in tungsten light 50652, plus a neutral glass 50660.



### CFE 40

Code 20038

#### Zeiss Distagon CFE 4/40 mm

This lens has an extreme wide-angle effect with an 88° diagonal angle of view. It has a compact construction and floating lens elements (FLE) for optimum quality in the close-up focusing range. Supplied with a Ø93 lens shade, which also serves as a filter holder. Equipped with databus connections.



### CFi 50

Code 20047

#### Zeiss Distagon CFi 4/50 mm

An all-round wide-angle lens with floating lens elements (FLE) for superbly sharp images even in close-up work. The 75° diagonal angle of view gives a moderate wide-angle effect.

# CFi/CFE/CF lenses – standard 80, medium 100, macro 120, 135 mm

	DISTAGON CFI 30	BIOGON CF 38	DISTAGON CFE 40	DISTAGON CFI 50	PLANAR CFE 80	PLANAR CFI 100	MAKRO-PLANAR CFI 120	MAKRO-PLANAR CF 135
Max. aperture	3.5	4.5	4	4	2.8	3.5	4	5.6
Focal length	30 mm	38 mm	40 mm	50 mm	80 mm	100 mm	120 mm	135 mm
Diaphragm	3.5-22	4.5-22	4-22	4-32	2.8-22	3.5-22	4-32	5.6-45
Angle of view diagonal/horizontal	180°/112°	91°/72°	88°/67°	75°/57°	52°/38°	42°/30°	37°/25°	32°/23°
No. of elements	8 T*	8 T*	11 T*	9 T*	7 T*	5 T*	6 T*	7 T*
Focusing range	0.3 m-∞ (1')	0.3 m-∞ (1')	0.5 m-∞ (1' 7")	0.5 m-∞ (1' 7")	0.9 m-∞ (3')	0.9 m-∞ (3')	0.8 m-∞ (2' 7")	-
Weight	1365 g (3 lb 14 oz)	875 g (1 lb 15 oz) 2)	915 g (2 lb 0.25 oz)	800 g (1 lb 12 oz)	510 g (1 lb 2 oz)	605 g (1 lb 5.25 oz)	695 g (1 lb 8.5 oz)	625 g (1 lb 6 oz)
Length	117.5 mm (4.6")	126 mm (5") 2)	102 mm (4")	95 mm (3.75")	65 mm (2.55")	75 mm (2.95")	99 mm (3.89")	87 mm (3.42")
Filters	Ø26	Ø60	Ø93	Ø70	Ø60	Ø60	Ø60	Ø60
Close-up attachments (Proxars)		Ø60			Ø60	Ø60	Ø60	Ø60
Lens shade		40668	40693	40771	40670	40673	40673	40673
Professional lens shade		40739	40739	40739	40739	40739	40739	40739
ACCESSORIES INCLUDED	1)	3)	4)					
Front lens cap	51659	51643	51654	51648	51643	51643	51643	51643
Rear lens cap	50377		50377	50377	50377	50377	50377	50571
Lens pouch/case	58157		58432	58416	58408	58408	58416	58416

1) Supplied in case 58157 and with all Ø26 filters. 2) Incl. 903SWC camera body. 3) See 903SWC page 8. 4) Supplied with lens shade Ø93/40 40693. 5) Supplied with the lens.

The Planar lenses combine relatively large apertures and high resolution with compact design and low weight.



**CFE 80** Code **20034**

**Zeiss Planar  
CFE 2.8/80 mm**

The standard lens for the 500 as well as the 200 series camera models for which it is equipped with databus connections. The Planar design ensures great colour correction, flat image plane and low distortion. The wide aperture facilitates photography in poor light. A lens suited for almost any task in general photography.

**CFI 100** Code **20127**

**Zeiss Planar  
CFI 3.5/100 mm**

This lens of unique optical design, provides an optimum relationship between lens speed and focal length in a top-performance lens.

Superb distortion correction makes this lens ideal for architectural, copying and similar applications, as well as aerial documentary photography.

**CFI 120** Code **20054**

**Zeiss Makro-Planar  
CFI 4/120 mm**

Primarily a special-purpose lens for close-up photography, it also has many other applications. Its relatively large maximum aperture is important when the lens is used at long extensions, where light fall-off would otherwise make it difficult to focus.

A good choice for close product photography.

**CF 135** Code **20118**

**Zeiss Makro-Planar  
CF 5.6/135 mm**

A special-purpose lens used in conjunction with the Hasselblad Automatic bellows extension 40517. It cannot be directly attached to any camera. Primarily a close-up lens, it also has many other applications. At the longest bellows extension of 202 mm (8") the lens gives a 1:1 scale of reproduction. The shortest extension of 63.5 mm (2.5") focuses to infinity.

**NOTE:** To be discontinued during 2000.

# CFi/CF lenses – telephoto 150, 180, 250, 500 mm

SONNAR CFI 150	SONNAR CFI 180	SONNAR CFI 250	TELE-APOTESSAR CF 500	VARIOGON CF 140-280	SUPERACHROMAT CFI 250	TELE-SUPER-ACHROMAT CFE 350
4	4	5.6	8	5.6	5.6	5.6
150 mm	180 mm	250 mm	500 mm	140-280 mm	250 mm	350 mm
4-32	4-32	5.6-45	8-64	5.6-45	5.6-45	5.6-45
30°/21°	24°/17°	17°/12°	9°/6.4°	16-30°/11-22°	17°/12°	13°/9°
5 T*	5 T*	4 T*	5 T*	17 (multicoating)	6	9 T*
1.4 m-∞ (4' 6")	1.55 m-∞ (5')	2.5 m-∞ (8' 6")	5 m-∞ (16' 5")	2.5 m-∞ (8' 3") + Macro	3 m-∞ (10')	3.75 m-∞ (12' 6")
785 g (1 lb 11.25 oz)	1075 g (2 lb 5.75 oz)	1000 g (2 lb 3.25 oz)	1810 g (3 lb 15.75 oz)	1850 g (4 lb 1.25 oz)	985 g (2 lb 2.5 oz)	1800 g (3 lb 15 oz)
101 mm (4")	128 mm (5.03")	164 mm (6.45")	329 mm (12.95")	240 mm (9.44")	164 mm (6.45")	235 mm (9.25")
Ø60	Ø60	Ø60	Ø93	Ø93	Ø60	Ø93
Ø60	Ø60	Ø60			Ø60	
40673	40673	40673	40703 5)	51470 5)	40673	40703 5)
40739	40739	40739	40739		40739	40739
51643	51643	51643	51654	51462	51643	51654
50377	50377	50377	50377	50377	50377	50377
58416	58424	58424	58351	58378	58424	58378

*In this range of lenses are Sonnar and Tessar designs, characterized by long focal lengths combined with small dimensions. Light, compact and well-balanced they can be hand-held with fast shutter speeds.*



**CFi 150** Code 20062

**Zeiss Sonnar CFI 4/150 mm**

A lens with a moderate but still unmistakable telephoto effect – shallow depth-of-field and compressed perspective. A popular lens for portrait, fashion and landscape photography.



**CFi 180** Code 20073

**Zeiss Sonnar CFI 4/180 mm**

A lens well suited for portrait, fashion, wedding, product and industrial work. Although optimized for infinity, it is designed with special attention to close range photography.



**CFi 250** Code 20081

**Zeiss Sonnar CFI 5.6/250 mm**

True telephoto effect combined with compact design for ease of handling. Excellent for tightly framed shots without crowding the subject. Its shallow depth-of-field can be used to throw an extraneous background out of focus.



**CF 500** Code 20088

**Zeiss Tele-Apotessar CF 8/500 mm**

A powerful telephoto lens. The Tele-Apotessar has superior correction for chromatic aberrations. Its internal focusing system allows the lens to focus down to the closest focusing distance 5 m (16' 5") without the length of the lens or the centre of gravity changing. It features a quick-coupling plate for tripod connection. Supplied in a leather case with a shoulder strap.

NOTE:  
Picture in reduced scale.

The superachromatic lenses are the top-of-the-line lenses of the Hasselblad system. The chromatic correction is so perfect that all spectral colours from a point source within the lens field of view are refracted to one single point in the film plane. Consequently, colour fringing has been eliminated. Even when working within the infrared spectral range, focusing can be done on the focusing screen – no special index is needed.

The Tele-Superachromat CFE 350 mm combines the best from CFi and FE lens designs. As it features both leaf shutter and databus connections it can be used without limitations with the 500 series camera models as well as all present models of the 200 series.



**CF 140-280** Code 20215

**Schneider Variogon  
CF 5.6/140-280 mm**

This zoom lens has a continuously variable 140-280 mm focal length and a fully synchronized built-in leaf shutter. The Variogon is a special lens which offers the Hasselblad photographer even more new and exciting opportunities for novel photographic solutions and creative fresh ideas.

A quick-coupling plate with a 3/8" tripod thread facilitates attachment of the camera to a tripod. Supplied in a leather case with a shoulder strap.



**CFi 250 Sa** Code 20194

**Zeiss Sonnar Superachromat (Sa)  
CFi 5.6/250 mm**

A special-purpose lens with unique optical design which gives perfect chromatic correction without sacrificing correction for distortion or other aberrations.

An ideal lens for scientific applications, especially multi-spectral photography, it is also useful in many other fields. Spectral range of 400-1000 nm.



**CFE 350 Sa** Code 20186

**Zeiss Tele-Superachromat (Sa)  
CFE 5.6/350 mm**

High performance superachromatic telephoto lens, which produces exceptional image quality even at maximum aperture. Spectral range 400-1000 nm. Internal focusing and near and far focusing limiters which can be individually set. An integral Quick-coupling plate S allows balanced mounting on the tripod.

Databus connections for compatibility with the 200 series camera models with metering systems. Supplied in a leather case with a shoulder strap.

**Teleconverter APO 1.4XE** Code 20613  
Optimized for the CFE 350 Sa.  
See page 23 for details.

Technical specifications of the lenses on this page are presented in the table on page 17.

## CB lenses – 60, 80, 160 mm

	DISTAGON CB 60	PLANAR CB 80	TESSAR CB 160
Max. aperture	3.5	2.8	4.8
Focal length	60 mm	80 mm	160 mm
Diaphragm	3.5-22	2.8-22	4.8-32
Angle of view diagonal/horizontal	67°/50°	52°/38°	27°/19°
No. of elements	7 T*	6 T*	4 T*
Focusing range	0.6 m-∞ (2')	0.9 m-∞ (3')	1.5 m-∞ (5')
Weight	680 g (1 lb 8 oz)	550 g (1 lb 3 oz)	650 g (1 lb 7 oz)
Length	83 mm (3.27")	65 mm (2.56")	114 mm (4.49")
Filters	Ø60	Ø60	Ø60
Close-up attachments (Proxars)	Ø60	Ø60	Ø60
Lens shade	40668	40670	40673
Professional lens shade	40739	40739	40739
ACCESSORIES INCLUDED			
Front lens cap	51643	51643	51643
Rear lens cap	50377	50377	50377
Lens pouch	58416	58408	58416

The CB lenses are comparable to the CFi and CFE lenses in optical performance, ergonomic design and built-in leaf shutters with flash sync at all speeds, from 1 to 1/500 s. However, lacking the "F" setting they are primarily intended for the 500 series camera models and the FlexBody, but can also be used on the 203FE and 205FCC with limited functions.

**NOTE:** The CB 120 mm is only available on certain markets in special product combinations.



**CB 60** Code 20208

### Zeiss Distagon CB 3.5/60 mm

A fast and compact retro-focus wide-angle lens, ideal for detailed interiors, group portraits and wedding coverage, as well as for many advertising and industrial applications. Even at full aperture in ambient light conditions, this versatile lens provides superb image quality.



**CB 80** Code 20032

### Zeiss Planar CB 2.8/80 mm

This classic standard lens, which features extremely uniform edge-to-edge sharpness and flatness of the image field, is suitable for almost any application in general photography. The wide aperture of f/2.8 facilitates work in poor light and ensures a bright viewfinder image.



**CB 160** Code 20068

### Zeiss Tessar CB 4.8/160 mm

The Tessar design makes the CB 160 mm lens lightweight and compact. The 160 mm focal length yields a moderate but distinct telephoto effect, shallow depth-of-field and compressed perspective. It is the perfect lens for portraits and similar applications.

**CB 120** Code 20055

### Zeiss Makro-Planar CB 4/120 mm

With the Makro-Planar design the CB 120 mm is optimized for the close focusing range and the relatively large maximum aperture makes it ideal to combine with close-up

accessories. As the optical performance is high over the entire focusing range it is also a useful lens for general photography.

The Makro-Planar CB 120 mm is only available on a limited number of markets and in special product combinations.

# FE lenses – 50, 80, 110, 150 mm, zoom 60-120 mm

	DISTAGON FE 50	PLANAR FE 80	PLANAR FE 110	HASSELBLAD FE 60-120	SONNAR FE 150	TELE-TESSAR FE 250	TELE-SUPER- ACHROMAT FE 300	TELE-TESSAR FE 350
Max. aperture	2.8	2.8	2	4.8	2.8	4	2.8	4
Focal length	50 mm	80 mm	110 mm	60-120 mm	150 mm	250 mm	300 mm	350 mm
Diaphragm	2.8-22	2.8-22	2-16	4.8-32	2.8-22	4-32	2.8-22	4-32
Angle of view, diag./horiz.	75°/56°	52°/38°	39°/28°	36-66°/26-49°	29°/21°	18°/13°	14.6°/10.4°	13°/9°
No. of elements	9 T*	7 T*	7 T*	13 (multicoating)	5 T*	5 T*	9 T* (filter incl.) 1)	8 T*
Focusing range	0.42 m-∞ (1' 5")	0.6 m-∞ (2')	0.8 m-∞ (2' 6")	1.2 m-∞ (4')	1.4 m-∞ (4' 6")	2.5 m-∞ (8' 3")	2.5 m-∞ (8' 3")	1.9 m-∞ (6' 3")
Weight	1040 g (2 lb 4.73 oz)	430 g (15.16 oz)	760 g (1 lb 10.75 oz)	1520 g (3 lb 6 oz)	710 g (1 lb 9 oz)	920 g (2 lb 0.5 oz)	3700 g (8 lb 2.7 oz)	2000 g (4 lb 6.5 oz)
Length	110 mm (4.33")	64 mm (2.5")	87 mm (3.42")	150 mm (5.91")	87 mm (3.42")	157 mm (6.18")	236 mm (9.3")	262 mm (10.3")
Filters	Ø93	Ø60	Ø70	Ø93	Ø70	Ø70	drop-in type	Ø93
Close-up attachments (Proxars)		Ø60						
Lens shade	40706	40670	40576	50767	40576	40576	integrated	40717
Professional lens shade	40739	40739	40739	40739	40739	40739		40739
ACCESSORIES INCLUDED							1)	
Lens shade	40706			50767				40717
Front lens cap	51654	51643	51648	51654	51648	51648	51729	51654
Rear lens cap	50377	50377	50377	50377	50377	50377	50377	50377
Lens pouch/case	58432	58408	58416	58464	58416	58424	58494	58378

1) Also supplied with the FE 300 Sa:  
 Filter neutral **51723**  
 Filter polarizing **51724**  
 Carrying strap **59117**  
 Open L-Connector **50780**



## FE 50

Code **20517**

### Zeiss Distagon FE 2.8/50 mm

A wide-angle lens with floating lens elements (FLE) for outstanding performance across its entire focusing range. The closest focusing distance of 0.42 m (1' 5") opens up for exciting close-up perspectives.

## FE 110

Code **20524**

### Zeiss Planar FE 2/110 mm

The fastest lens in professional medium format photography. The large maximum aperture provides an extremely bright viewfinder image, allows fast shutter speeds and can be used to blur out distracting backgrounds. Often chosen as a standard lens by photographers using the 200 series cameras.

## FE 80

Code **20508**

### Zeiss Planar FE 2.8/80 mm

The classic Planar design is the lightweight standard lens for the Hasselblad 200 models. The design provides convenient focusing and a closest focusing distance of only 0.6 m (2').

**NOTE:** To be discontinued during 2000 as a consequence of the introduction of the Zeiss Planar CFE 2.8/80 mm

## FE 60-120

Code **20583**

### Hasselblad FE 4.8/60-120 mm

Zoom range from moderate wide-angle to short telephoto. At all focal length settings the image quality is high and comparable with corresponding fixed focal length lenses. The set lens aperture does not change when zooming, which makes the lens easy to use with previous 200 and 2000 camera models without built-in exposure metering.

## FE 150

Code **20532**

### Zeiss Sonnar FE 2.8/150 mm

Lightweight and very compact short telephoto lens with a faster speed than its CFi counterpart. A lens well suited for portraits in the studio or on location, travel and sports photography.

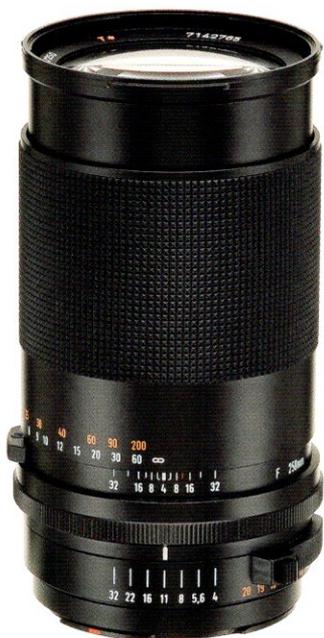
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www.hasselblad.com

## FE lenses – 250, 350 mm,

The Hasselblad FE lenses are designed for the 200 series camera models. As these cameras are equipped with focal plane shutters the FE lenses – unlike the CFi/CFE/CF/CB lenses – are designed without integral shutters. This allows a larger lens aperture. In this respect the Planar FE 110 mm is the fastest lens within professional medium format by having a maximum aperture of  $f/2$ .

All FE lenses feature databus connections, which automatically transfer information of the pre-set lens aperture to the exposure metering systems of the 202FA, 203FE and 205FCC camera models.



**FE 250** Code 20540

### **Zeiss Tele - Tessar FE 4/250 mm**

The relatively large maximum aperture provides a bright viewfinder image and allows operation with faster shutter speeds. Due to the Tele-Tessar design it is lightweight and easy to use hand-held making it ideal for fashion, wedding, portrait, sports and nature photography.



**FE 350** Code 20559

### **Zeiss Tele - Tessar FE 4/350 mm**

A telephoto lens which is very fast for its focal length. Internal focusing for convenience and unusually short lens-to-subject distance.

A quick-coupling plate with a 1/4" tripod thread facilitates attachment to a tripod.

Supplied in a leather case with a shoulder strap.

## Telephoto Power Pack



### **Telephoto Power Pack** Code 21003

The fastest and most powerful telephoto lens in professional medium format. It is supplied together with a dedicated 1.7x converter in a matched set to further extend the focal length and to provide the highest possible optical performance.

### **Zeiss Tele - Superachromat (Sa) FE 2.8/300 mm** Code 20599

Superachromatic design provides unsurpassed correction of chromatic aberrations even at maximum aperture  $f/2.8$ .

Spectral range 400-1000 nm. Used with Apo-Mutar 1.7XE, the combination builds a fast and powerful 4.8/500 mm lens.

### **Zeiss Apo-Mutar 1.7XE** Code 20600

Converter optimized for the FE 300 Sa design and only available together with the individual lens it is matched with. Reduces the aperture by 1.5 f/stops.

For specifications and accessories, see table on page 23.

**NOTE:** The Telephoto Power Pack is supplied only as a kit consisting of 20599 and 20600.

# ArcBody lenses – 35,45,75 mm

# XPan lenses – 30, 45, 90 mm

## ArcBody lenses

	APO-GRANDAGON 35 mm	APO-GRANDAGON 45 mm	GRANDAGON-N 75 mm
Max. aperture	4.5	4.5	4.5
Focal length	35 mm	45 mm	75 mm
Diaphragm	4.5-22	4.5-32	4.5-45
Angle of view diag./horiz. without shift	94°/75°	80°/62°	55°/40°
No. of elements	8 (multicoating)	8 (multicoating)	8 (multicoating)
Focusing range	0.5 m-∞ (1'7")	0.5 m-∞ (1'7")	1 m-∞ (3'4")
Weight	420 g (14.8 oz)	500 g (1 lb 1.7 oz)	660 g (1 lb 7.3oz)
Length	54 mm (2.13")	64 mm (2.52")	99 mm (3.90")
Filters	M77	M77	M77

## Hasselblad XPan lenses

	30 mm	45 mm	90 mm
Max. aperture	5.6	4	4
Focal length	30 mm	45 mm	90 mm
Diaphragm	5.6-22	4-22	4-22
Angle of view diag./horiz.	72°/62° 24x36 mm 98°/94° 24x65 mm	51°/44° 74°/71°	27°/23° 42°/39°
No. of elements	10 (multicoating)	8 (multicoating)	9 (multicoating)
Focusing range	0.7 m-∞ (2' 3.5")	0.7 m-∞ (2' 3.5")	1 m-∞ (3' 3.5")
Weight	310 g (10.9 oz)	235 g (8.23 oz)	365 g (12.7 oz)
Length	53 mm (2.09")	47 mm (1.85")	73 mm (2.88")
Filters	M58	M49	M49
Lens shade	54407	54406	54406

## Eyepiece correction lenses

Dioptres	Rangefinder	Viewfinder XPan 30
- 4	54424	54476
- 3	54427	
- 2.5		54479
- 2	54430	
neutral	54439	54482
+ 0.5	54433	54485
+ 2	54436	54488



27035



27045



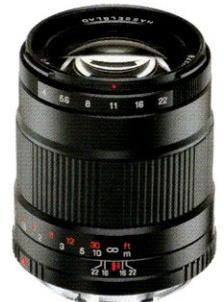
27075



24013



24015



24019

## ArcBody lenses

All lenses supplied with 57692 Front lens cap ArcBody, rear lens cap and lens pouch.

Rodenstock Apo-Grandagon 4.5/35 mm Supplied with Rear lens cap 50571	<b>27035</b>
Rodenstock Apo-Grandagon 4.5/45 mm Supplied with Rear lens cap 50377	<b>27045</b>
Rodenstock Grandagon-N 4.5/75 mm Supplied with Rear lens cap 50377 and the following equipment: Lens shade 75 Extension tube 26 ArcBody Stray light protection slide Correction slide 10° Correction slide 20°	<b>27075</b> <b>47027</b> <b>47049</b> <b>72411</b> <b>72413</b> <b>72415</b>

## Optional ArcBody accessories

Camera inverter mount	<b>47033</b>
Extension tube 8 ArcBody	<b>47040</b>
Extension tube 16 ArcBody	<b>47045</b>
Extension tube 26 ArcBody	<b>47049</b>
Centre filter ArcBody	<b>47057</b>
Reflex viewfinder RMfx	<b>47070</b>

## Hasselblad XPan lenses

Hasselblad 5.6/30 mm Aspherical  
supplied with the following equipment:

Viewfinder XPan 30	<b>54472</b>
Viewfinder pouch XPan 30	<b>54463</b>
Lens shade XPan 30	<b>54407</b>
Centre filter XPan for 30 mm	<b>54451</b>
Front lens cap XPan 30	<b>54410</b>
Rear lens cap XPan	<b>54412</b>
Lens pouch 1	<b>58408</b>
Hasselblad 4/45 mm	<b>24015</b>
Hasselblad 4/90 mm	<b>24019</b>
Both lenses supplied with the following equipment: Front lens cap XPan 45/90 Rear lens cap XPan Protective lens cover XPan 45/90	<b>54409</b> <b>54412</b> <b>54421</b>

## Optional Hasselblad XPan accessories

Lens shade XPan 45/90	<b>54406</b>
Centre filter XPan for 45 mm	<b>54453</b>
UV-sky filter XPan M49 45/90	<b>54460</b>
Eyepiece correction lenses	<i>See table above</i>

**New**

# Converters

Hasselblad converters are designed to be used with all current and previous Hasselblad SLR camera models. They feature the same outstanding optical and mechanical quality as the Hasselblad lenses and do not affect the closest focusing distance of the lenses they are combined with.

For metering use with the 202FA, 203FE and 205FCC camera models and FE/CFE lenses, the Teleconverter 1.4XE, Converter 2XE and Teleconverter APO 1.4XE are provided with databus connections.

The PC-Mutar 1.4X Shift Converter features a vertical shift facility for perspective control, e.g. to avoid converging lines in architectural photography.

	TELECONVERTER 1.4XE	CONVERTER 2XE	TELECONVERTER APO 1.4XE	PC-MUTAR 1.4X	APO-MUTAR 1.7XE
Reduction of lens aperture	-1 f/stop (-1EV)	-2 f/stop (-2EV)	-1 f/stop (-1EV)	-1 f/stop (-1EV)	-1.5 f/stop (-1.5EV)
No. of elements	4 (multicoating)	7 (multicoating)	5 (multicoating)	5 T*	7 T*
Weight	235 g (8 oz)	350 g (12 oz)	430 g (15 oz)	480 g (1 lb 1 oz)	450 g (1 lb)
Length	40 mm (1.57")	70 mm (2.75")	100 mm (4")	39 mm (1.5")	76 mm (3")
ACCESSORIES INCLUDED					
Front protective cover	51438	51438	40764	51438	40764
Rear lens cap	50377	50377	50377	50377	50377
Lens pouch	58408	58408	58416	58459	58416
Double cable release				40751	
Open L-connector				50776	



**Teleconverter 1.4XE**  
Code 20608

The Teleconverter 1.4XE extends the focal length of the lens 1.4 times, reducing the lens aperture by only one f/stop. It is provided with databus connections and can be combined with all Hasselblad lenses of 100 mm focal length or longer, except the Makro-Planar CF 135 mm.

Its compact design makes the Teleconverter 1.4XE convenient to use and easy to include permanently in the camera outfit.



**Converter 2XE**  
Code 20605

The Converter 2XE doubles the focal length of the lens, reducing the lens aperture by only two f/stops. It can be combined with all Hasselblad lenses except the Makro-Planar CF 135 mm. Combined with the Makro-Planar CFi 120 mm it is recommended within the macro range only, not at infinity. Provided with databus connections.

By combining the Converter 2XE with the Tele-Apotessar CF 500 mm the range of Hasselblad lenses is extended to 1000 mm focal length.



**Teleconverter APO 1.4XE**  
Code 20613

The Teleconverter APO 1.4XE is optimized for the Tele-Superachromat CFE 350 mm. Extending the focal length 1.4 times and reducing the aperture by only one f/stop, the combination forms an excellent 490 mm lens.

It can also be used to advantage with the Sonnar CFi 250 mm, Tele-Tessar CF 350 mm, Tele-Apotessar CF 500 mm and Tele-Tessar FE 350 mm.

Databus connections transmit data from FE and CFE lenses to the metering systems of the 200 series camera models.



**Zeiss PC-Mutar 1.4X Shift Converter**  
Code 20311

The PC-Mutar 1.4X not only extends the focal length of the lens 1.4 times, it also allows you to adjust the vertical perspective  $\pm 8$  -16 mm depending on which lens it is combined with. It can be used with all Hasselblad lenses with a focal length of between 40 and 100 mm.

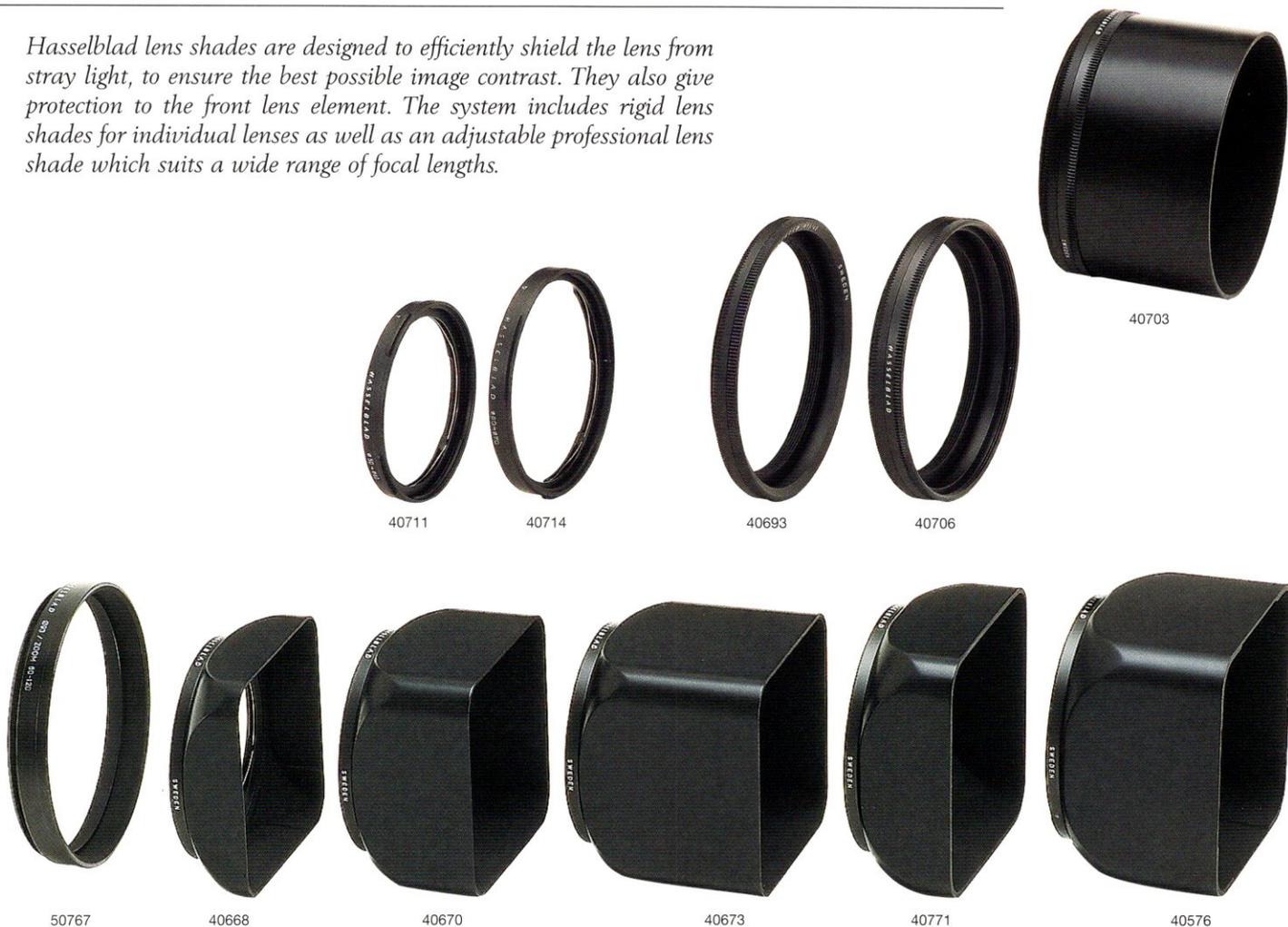
Because the shift facility separates the camera from the lens mechanism the lens has to be separately wound and then released simultaneously with the camera using a double cable release (included).

**NOTE:** When used with the 555ELD or previous EL series models the Release adapter 46213 and Open L-connector 50776 have to be fixed between the cable release and the camera body. See page 40 for details.

NOTE:  
Picture in reduced scale.

# Lens shades

Hasselblad lens shades are designed to efficiently shield the lens from stray light, to ensure the best possible image contrast. They also give protection to the front lens element. The system includes rigid lens shades for individual lenses as well as an adjustable professional lens shade which suits a wide range of focal lengths.



## Lens shades for CFi/CFE/CF and CB lenses

**Lens shade Ø60/38-60** Code **40668**  
For wide-angle lenses from 38 to 60 mm focal length with Ø60 mm front bayonet. Bayonet mount.

**Lens shade Ø60/80** **40670**  
For the Planar CFE/CF/CB 80 mm. Bayonet mount.

**Lens shade Ø60/100-250** **40673**  
For CFi/CF/CB lenses with focal lengths from 100 to 250 mm. Bayonet mount.

**Lens shade Ø70/CFi 50** **40771**  
For the Distagon CFi 50 mm. Bayonet mount.

**Lens shade Ø93/40** **40693**  
For the Distagon CFE 40 mm. Supplied with the lens. Also used as a holder for Ø93 filters.

**Lens shade Ø93/350-500** **40703**  
For the Tele-Superachromat CFE 350 mm and Tele-Apotessar CF 500 mm. Supplied with these lenses. Also used as a holder for Ø93 filters. Threaded mount. It also fits the discontinued Tele-Tessar CF 350 mm.

## Lens shades for FE lenses

**Lens shade Ø60/80** Code **40670**  
For the Planar FE 80 mm. Bayonet mount.

**Lens shade Ø93/FE 60-120** **50767**  
For the Hasselblad FE 60-120 mm. Supplied with the lens.

**Lens shade Ø93/50** **40706**  
For the Distagon FE 50 mm. Threaded mount. Supplied with the lens. Also serves as filter holder for Ø93 filters.

**Lens shade Ø70/110-250** **40576**  
For lenses with focal lengths from 110 to 250 mm. Bayonet mount.

**Lens shade Ø93/FE 350** **40717**  
For the Tele-Tessar FE 350 mm. Supplied with the lens. Also used as a filter holder for Ø93 filters. Threaded mount.

## Step-up rings

Lens shades and filters for lenses with Ø60 - Ø70 accessory mounts may also be used on lenses with a smaller accessory mount simply by fitting step-up rings.

**Step-up ring Ø50-Ø60** Code **40711**  
For attaching Ø60 filters and lens shades to lenses with a Ø50 lens front mount (earlier C lenses and F 80).

**Step-up ring Ø60-Ø70** **40714**  
For attaching Ø70 filters and lens shades to lenses with a Ø60 lens front mount.



40739



40744



40741



40312



40746

## Professional lens shade

**Proshade 6093T** Code **40739**  
 An adjustable bellows lens shade with extension scale for various focal lengths. Provides highly efficient protection against stray light. Its compact, flat folding design saves space in the equipment case. By using the Proshade adapters it can be fitted to all Hasselblad lenses except the Distagon CFi 30 mm, Tele-Superachromat FE 300 mm, the ArcBody and XPan lenses. The shade features a filter holder for glass, gelatine or plastic filters. The bellows folds down for easy access to the filter holder or for viewing without filter. Supplied with Proshade mask 6093/250 **40312**, which gives maximum shading effect when using Sonnar CFi 250 and Sonnar CFi 250 Sa lenses.

**NOTE:** Both Hasselblad Ø93 Polarization filter and Soft 100 filters can be used with Proshade 6093T.

See Filters, page 27.

**Proshade adapter 6093/Ø60** Code **40741**  
 For fitting Proshade 6093T to lenses with Ø60 front mount. The adapter ring permits two glass filters attached to the internal front bayonet mount. Also used for C lenses (Ø50) with step-up ring Ø50-Ø60 (**40711**).

**Proshade adapter 6093/Ø70** **40744**  
 For fitting Proshade 6093T to lenses with Ø70 front mount.

**Proshade adapter 6093/Ø93** **40746**  
 For fitting Proshade 6093T to lenses with Ø93 front mount.

**Gelatine filter mount 6093/75 mm** Code **51705**

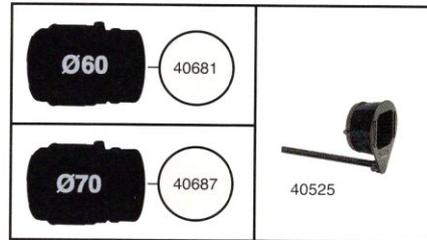
**Gelatine filter mount 6093/100 mm** **51708**

Mounts for using gelatine filters in the Proshade filter holder, which holds four mounted filters. For improved durability, the gelatine filter should be permanently fitted into the mount. Supplied in packs of 5 for two different gelatine filter formats, 75x75 mm and 100x100 mm.

# Close-up accessories



40517



Lens mounting rings



40525



- Proxar 0.5 Ø60** Code **51662**
- Proxar 1.0 Ø60** Code **51665**
- Proxar 2.0 Ø60** Code **51667**

Proxar close-up lenses are available with three focal lengths: 0.5, 1.0 and 2.0 m which constitute the approx. focusing distances. They are designed for Hasselblad lenses with Ø60 front bayonet and can be combined to further decrease the focusing distance. The aperture of the lens is not affected when using Proxar lenses.

**NOTE:** To be discontinued during 2000.



40649

40654

40655

40656

- Extension tube 8** Code **40649**
- Extension tube 16E** Code **40654**
- Extension tube 32E** Code **40655**
- Extension tube 56E** Code **40656**

The extension tubes can be combined to provide a variety of extensions. They connect to the lens and the camera mechanisms to fully utilize the camera's automatic functions.

Extension tubes type E fit all Hasselblad SLR camera models and FlexBody. They are equipped with databus connections which transmit the lens data to the 202FA, 203FE and 205FCC camera electronics.

**NOTE:** For physical reasons the Extension tube 8 cannot be connected directly to a 200 or 2000 series camera body. Also, as it does not feature databus connections the databus chain will be broken when used between a FE/CFE lens and an extension tube type E.

- Automatic bellows extension** Code **40517**

The bellows extension provides variable extension from 63.5 to 202 mm.

Combined with the Makro-Planar CF 135 mm it provides a focusing range from infinity down to a reproduction scale of 1:1.

The bellows extension interconnects the camera body and lens mechanisms. This means that the lens is used in the same way as when it is directly connected to the camera.

**NOTE:** The light metering function of the 202FA, 203FE and 205FCC will be restricted when using the bellows extension.

- Lens shade for automatic bellows extension** Code **40525**

Lens shade with fully adjustable compendium, which effectively shields the lens from stray light. A lens mounting ring is required to adapt the shade to the lens used.

- Lens mounting ring Ø60** Code **40681**

- Lens mounting ring Ø70** Code **40687**

Required when connecting the lens shade for the automatic bellows extension to lenses with front mount Ø60 or Ø70.

# Filters

Hasselblad filters are manufactured under stringent demands for optical flatness and transmission qualities that complement the outstanding Hasselblad lenses in the best possible way.

The filters are supplied in sizes to fit the different lens mounts and Proshade 6093T. It is also possible to attach larger filters on smaller lens mounts using step-up rings (see page 24), or standard Ø67 or Ø77 mm filters using filter adapters.

## Filters Ø60-93 mm

Filter type	Designation		Ø60	Ø70	Ø93
UV (Haze) filters	1xUV-SKY-0	Haze	41608	51349	51411 <sup>1)</sup>
Polarization filters	3xPola-1.5	Pola	51603	51578	41646 <sup>2)</sup>
Softars	I		51670	51527	
			51673	51535	
			51675 <sup>3)</sup>	51543 <sup>3)</sup>	
Soft 100	51713	Soft Light	-0EV	100x100 mm	
	51715	Soft Medium	-0EV	100x100 mm	
	51718 <sup>3)</sup>	Soft Heavy	-0.5EV	100x100 mm	
Set Soft 100	51711 <sup>3)</sup>	(51713-51715-51718)			

1) UV-SKY filter Ø93 is designated HZ-0.

2) Requires Polarization filter adapter Ø93 **41648** when used with FE 350 mm and FE 60-120 mm.

3) To be discontinued.

The manufacture of coloured filters, light balance filters and neutral density filters has been discontinued. During the year 2000 deliveries will cease when present stocks are exhausted.

Filter type	Designation		Ø60	Ø70	Ø93
Coloured filters	1.5xY-0.5	Yellow	51586	51306	51365
	3xG-1.5	Green	51592	51314	51373
	4xO-2	Orange	51594	51322	51381
	8xR-3	Red	51597	51330	51403 <sup>1)</sup>
	Light balance filters	1xCR1.5-0	CR1.5	51614	51357
	1xCR3-0	CR3	51616		
	1.5xCR6-0.5	CR6	51619		
	1xCB1.5-0	CB1.5	51622		
	1xCB3-0	CB3	51624		
	1.5xCB6-0.5	CB6	51627		
	2xCR12-1	CR12	51630		
	2xCB12-1	CB12	51632		
Neutral density (grey) filters	8xGr-3	Grey	51606		

1) Red filter Ø93 is designated 6xR-2.5.



## Filters

### UV (Haze) filters

Absorb UV radiation and reduce blue haze without affecting the colours. Protect the front lens surface.

### Polarization filters

For colour or b/w films to reduce or eliminate reflections and to increase colour saturation, e.g. in the sky.

### Softar and Soft 100 diffusion filters

Provide controlled image softening. Available in three strengths, which can be combined for increased effect.

## Filter adapters and mounts

### Polarization

Code **41648**

### filter adapter Ø93

Used for attaching the Polarization filter Ø93 (**41646**) to the FE 350 mm and FE 60-120 mm.

### Filter adapter Ø60/67 mm **41530**

For standard Ø67 mm filters on Ø60 lens front mounts.

### Filter adapter Ø70/77 mm **41548**

For standard Ø77 mm filters on Ø70 lens front mounts.

### Gelatine filter mount

Code **51705**

### 6093/75 mm

### Gelatine filter mount

**51708**

### 6093/100 mm

Mounts for using gelatine filters in the Hasselblad Proshade filter holder.

See Proshade 6093T on page 25.

# Viewfinders

The clear, magnified focusing screen image produced by Hasselblad viewfinders makes precise focusing, checking depth-of-field and composition easy. To suit the wide variety of individual requirements, conditions and photographic applications, viewfinders of different types offer various viewing angles and scales of magnification.

By choosing a meter prism viewfinder, a TTL exposure metering system provides additional versatility.



72524



52096



72534



42317



47070

## Magnifying hoods

### Magnifying hood HM2 Code 72524

Enlarges the screen image 3.3x. Extra large eyepiece for full view of the entire focusing screen, even with spectacles. The eyepiece can be set in two positions; one for use with all Hasselblad reflex camera bodies, the other one for the 903SWC/SWCE, ArcBody and FlexBody.

Supplied with a correction lens mounting kit. Correction lenses are not available from Hasselblad, but can be supplied by opticians.

### Magnifying hood 52096

A sturdy hood with a rubber eyecup which effectively blocks out stray light. The eyepiece enlarges the focusing screen image 3x and is adjustable from -2.5 to +3.5 dioptres.

### Magnifying hood 72534 4x4 DPS

A magnifying hood optimized for digital backs with sensor sizes up to 4x4 cm. Ideal to combine with the 555ELD when backs such as Leaf, Color Crisp, MegaVision, Phase One and other camera backs featuring area sensors are being used.

## Using the viewfinders on the non-reflex cameras

By attaching a focusing screen adapter to the magazine mount of the 903SWC, 903SWCE, ArcBody and FlexBody, all Hasselblad viewfinders can be used for image composition, depth-of-field control and/or exposure metering directly at the film plane. Focusing screen adapter standard 41057 also fits the Hasselblad SLR camera models. See page 30 for detailed information about focusing screen adapters.

The screen image is enlarged 5.5x, which makes critical focusing easy and exact. By turning the setting ring, the eyepiece can be adjusted from -2.5 to +0.5 dioptres (-1.5 to +1.5 dioptres with Focusing screen adapter standard 41057). If further correction is required, correction lenses supplied by opticians can be fitted using the mounting kit that comes with the hood.

## Reflex viewfinder

### Reflex viewfinder RMfx Code 47070

Specially developed for the ArcBody, FlexBody and the 903SWC/SWCE. The image is magnified 3.3x and is vertically correct, which simplifies composition, focusing, and tilt and shift adjustments. The viewing angle of 10° from vertical, the option to attach the viewfinder turned 180° and the extra large eyepiece provide a comfortable working position.

Supplied with a correction lens mounting kit. Correction lenses are not available from Hasselblad, but can be supplied by opticians.

## Focusing hoods

The Hasselblad reflex camera bodies are all supplied with a foldable focusing hood viewfinder. It effectively shields the focusing screen from stray light and shows the full image even with the camera at waist level. The folding magnifier enlarges the image 4.5x and is interchangeable for individual eye-sight correction.

See the table for optional correction magnifiers.

### Focusing hood, chrome Code 42315

### Focusing hood, black 42323

Designed for the 500 series camera bodies and equipped with the 42331 neutral magnifier. Also fits the the camera models of the previous 2000 series and the 201F.

### Focusing hood E, chrome 42317

### Focusing hood E, black 42325

The E designation states that this type of focusing hood is designed for the 202FA, 203FE and 205FCC camera bodies. For better vision of the metering system display, it is equipped with the magnifier 42374 (-1 dioptres).

## INTERCHANGEABLE CORRECTION EYEPIECES AND MAGNIFIERS

All optical surfaces have anti-reflection coating

VIEWFINDER MODEL

Correction strength Dioptres	NC-2 PM3 PME5	PME PME3 PME51	PM PM5	PM90	Focusing hood correction magnifier
+3		42432		42412	42404
+2		42429		42423	42390
+1		42426		42420	42382
0 Neutral		42412		42411	42331
-1		42423		42418	42374
-2		42420		42415	42366
-3		42418		42414	42358
-4		42415		42413	42340
		PME90			
-4.5 to -2		42453 (PME -)			
+0.5 to +3		42450 (PME +)			

PME51  
42296

PM5  
42308



52036

42459  
42462



PME45  
42297

PM45  
42309



PM90  
42288

PME90  
42290



## Prism and meter prism viewfinders

### Meter prism viewfinder PME45 Code 42297

Advanced 45° meter prism viewfinder featuring three different metering methods, a choice of shutter or aperture priority and a wide range of presetting possibilities. Metering method can be changed between TTL spot metering, centre-weighted TTL integral metering and incident metering via a dome sensor. A special reference mode is very useful when evaluating the light reflected from different areas in the image, or when monitoring changes in the lighting conditions.

The 2.5x enlarged image covers the entire focusing screen including the viewfinder's built-in LCD. The large eyepiece, specially suitable for users with glasses, can be adjusted from -2 to +1 dioptres. PME45 is powered by a 3V lithium type CR-2 battery.

Supplied with a removable rubber eyecup and protective cover 52191. Will replace the PME51.

### Viewfinder SWC 52036

Optical viewfinder for the 903SWC and 903SWCE. Features a built-in spirit level visible through the viewfinder as well as from above. Lens focusing scale can be read through the viewfinder. Image field markings for 6x4.5 cm (2 1/4x1 5/8").

### Prism viewfinder PM45 Code 42309

The PM45 has the same design as PME45, but without exposure metering.

Supplied with a removable rubber eyecup and protective cover 52191. Will replace the PM5.

### Meter prism viewfinder PME90 42290

A 90° meter prism eye-level viewfinder featuring the same advanced TTL metering system as the PME45. The 2x enlarged viewfinder image and the -2 to +0.5 dioptres adjustable eyepiece makes the PME90 especially useful for users with glasses. PME90 is powered by a 3V lithium type CR-123A battery.

Supplied with removable rubber eyecup and protective cover 52191. See table for interchangeable correction eyepieces.

**NOTE:** Because of its low profile the PME90 can not be used with Magazine 70 or Magazine for Polaroid film.

### Prism viewfinder PM90 42288

The PM90 has the same design as the PME90, but without exposure metering.

Supplied with removable rubber eyecup and protective cover 52191. See table for interchangeable correction eyepieces.

**NOTE:** Because of its low profile the PM90 can not be used with Magazine 70 or Magazine for Polaroid film.

### Meter prism viewfinder PME51 Code 42296

A 45° meter prism viewfinder with centre-weighted TTL metering. Metering range EV2-19 at ISO100, film speed range ISO25-6400. Powered by a 6V type PX28 or equivalent battery.

Supplied with removable rubber eyecup and protective cover 52191. See table for interchangeable correction eyepieces.

**NOTE:** To be discontinued during 2000.

### Prism viewfinder PM5 42308

The same design as the PME51, but without exposure metering.

Supplied with removable rubber eyecup and protective cover 52191. See table for interchangeable correction eyepieces.

**NOTE:** To be discontinued during 2000.

### View magnifier 42459

The View magnifier is attached to the eyecup of the PME51, PM5 and PM90 viewfinders. It enlarges the central part of the screen image by doubling the magnification of the viewfinder used. A hinge permits the magnifier to be swung on and off between focusing and viewing of the entire image area. The magnifier eyepiece can be adjusted from -3 to +5 dioptres.

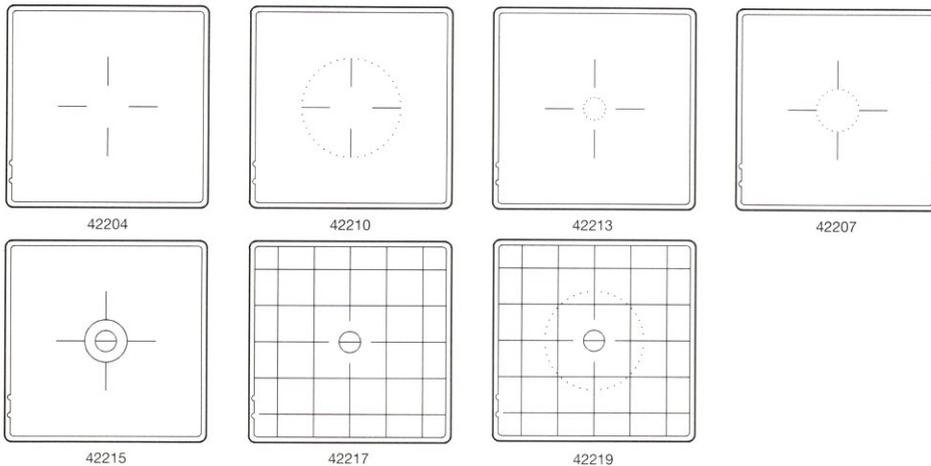
### View magnifier PM/PME45 42462

Same as View magnifier 42459 but adapted to the PM45 and PME45.

New

# Focusing screens

The easily interchangeable Hasselblad focusing screens are extremely bright and clear. They feature different combinations of split-image and microprism rangefinders, reference crosses, grids and markings for light metering zones. Two focusing screen adapters make it possible to focus and compose the image at the film plane of all camera bodies including the 903SWC, ArcBody and FlexBody, or to use a meter prism viewfinder for TTL exposure metering.



\*The focusing screens Acute-Matte D are designed by MINOLTA.



## Focusing screens Acute - Matte D\*

The Acute-Matte D-type focusing screens combine extreme brightness and clearness with even illumination, which remarkably facilitates quick and precise focusing. The Fresnel lens is cut with such high precision that the rings cannot be seen through the viewfinder.

All current Hasselblad reflex cameras are supplied with the Acute-Matte D focusing screen.

### Focusing screen Code 42204 Acute - Matte D

The standard version of the Acute - Matte D screen. Clean design with a reference cross in the middle of the screen. Supplied with the Hasselblad 501CM, 503CW and 555ELD.

### Focusing screen Code 42210 Acute - Matte D 202/203

Supplied with the Hasselblad 202FA and 203FE. With a reference cross and a Ø28 mm ring corresponding to the cameras' metering zone.

### Focusing screen Code 42213 Acute - Matte D 205

Supplied with the Hasselblad 205FCC. With a reference cross and a Ø6 mm ring corresponding to the camera's spot metering zone.

### Focusing screen Code 42207 Acute - Matte D PME90/45

With a Ø12 mm ring corresponding to the spot metering zone of the Meter prism viewfinders PME90 and PME45.

### Focusing screen Code 42215 Acute - Matte D with microprism and split-image rangefinder

With a Ø6 mm split-image rangefinder, within a central Ø12 mm microprism area.

### Focusing screen Code 42217 Acute - Matte D with grid and split-image rangefinder

With a Ø6 mm split-image rangefinder and a grid which provides field markings for 6x4.5 cm (2 1/4x1 5/8") and 4x4 cm (1 5/8x1 5/8") formats. The rangefinder area corresponds to the spot metering zone of the 205FCC.

### Focusing screen Code 42219 Acute - Matte D 202/203 with grid and split-image rangefinder

With a Ø28 mm ring corresponding to the metering zone of the 202FA and 203FE, and a Ø6 mm split image rangefinder corresponding to the spot metering zone of the 205FCC. The grid provides field markings for 6x4.5 cm (2 1/4x1 5/8") and 4x4 cm (1 5/8x1 5/8") formats.

## Focusing screen adapters

By using a focusing screen adapter the image composition and depth-of-field can be checked directly at the film plane. By fitting a Hasselblad viewfinder the screen will be shaded from stray light and the image magnified. Using a meter prism viewfinder makes TTL exposure metering possible with the 903SWC, 903SWCE, ArcBody and FlexBody.

### Focusing screen Code 41057 adapter standard

For use with the ArcBody, FlexBody and Hasselblad reflex camera bodies. A built-in spirit level facilitates horizontal positioning. Features a fixed Acute-Matte D focusing screen similar to the focusing screen 42217.

### Focusing screen Code 41050 adapter SWC

Designed exclusively for the 903SWC/SWCE and all previous SWC and SW models. Features a fixed Acute-Matte D focusing screen similar to the focusing screen 42217.

# Winding and remote control accessories

Several of the current Hasselblad camera models can be easily motorized by replacing the winding crank with a winder. The winder automatically rewinds the shutter and advances the film after each exposure, increasing the photographer's efficiency and preparedness.

The powerful motors of the Hasselblad winders ensure rapid, distinct starts, and smooth film and shutter winding. Used with the camera on a tripod the winder allows repeated exposures without disturbing the camera position.



## Winder CW Code 44105

The Winder CW is designed for the Hasselblad 503CW and 503CXi cameras and enables continuous exposures at a rate of up to 0.8 frames per second. It replaces the winding crank and provides a comfortable grip, which facilitates hand-held photography.

The winder can be set to single, continuous or multiple exposure, infrared remote control and on/off lock. Using the IR Remote control or the Release cord **44123** it can be remotely operated.

A Self Adjusting Interface (SAI) adjusts the winder to each individual camera for perfect compatibility and a minimum of wear on the camera and the motor.

Capacity of up to 3000 exposures with six 1.5V size AA (LR6, UM3 or equal) alkaline batteries. Rechargeable NiCd or metal-hydride batteries can be used.

Supplied with the following equipment:

- IR Remote control **44113**
- Wrist strap **44118**

## Wrist strap Code 44118

– included with the Winder CW.  
For secure hand-held photography with the Winder CW. Genuine leather.

## Release cord 44123

Release cord for remote control of the Winder CW. Length: 3 m (10 ft).

## IR Remote control 44113

– included with the Winder CW and the IR Release unit ELD

Used with the 503CW fitted with the Winder CW it provides remote wireless camera operation as well as changing of winder modes from a distance.

Used with the 555ELD fitted with the IR Release unit the camera can be remotely released.

Distance in normal conditions is approx. 10 m (33 ft).

Powered by a CR2 battery with a normal working-life expectancy of 3 years. Battery included.

## Winder F Code 44069

Winder for the 200 series camera models replacing the winding crank.

It may also be used with the 2003FCW and 2000FCW, but with certain operational limitations.

The Winder F is completely controlled from the camera, using the camera's release button. It enables sequence exposures at a rate of up to 1.3 frames per second.

Capacity of up to 3000 exposures with five AA (LR6, UM3 or equal) alkaline batteries, or about 1000 exposures with rechargeable NiCd or metal-hydride batteries.

## Winding crank 1 44040

## Winding crank E 44086

Detachable winding cranks for manually winding the shutter and the film.

Winding crank 1 fits 503CX, 500 Classic, 500C/M and 500C bodies.

Winding crank E is supplied with all 200 series models and 503CW.

# Film magazines

Hasselblad interchangeable film magazines make it possible to change exposed film for unexposed in seconds, or change between film types, film lengths and film formats in the middle of a roll without losing a single frame.

Magazines are available for 120 and 220 roll film, 70 mm perforated film and Polaroid film.

For the 202FA, 203FE and 205FCC camera models there is a special line of E magazines. The film speed is programmed on a dial on the magazine and automatically transferred to the

cameras' exposure metering systems via databus connections.

One of the E magazines – the E12 CC – is designed especially for the 205FCC camera model. Besides the film speed dial it has a second dial to simulate the effect of altered film development, when working in black/white according to the zone system.

All Hasselblad roll film magazines, except the Magazine 70, are equipped with a practical magazine slide holder.



## A - type film magazines

For all Hasselblad camera models, including the ArcBody and FlexBody. When used with 202FA, 203FE and 205FCC the film speed has to be programmed manually in the camera's Pr-mode.

**Magazine A12 – 6x6, chrome** Code **30212**  
**Magazine A12 – 6x6, black** **30213**  
 6x6 cm (2 1/4x2 1/4") format on 120 film, 12 frames per roll.  
 Supplied with magazine slide 41068.

**Magazine A16 – 645, chrome** **30216**  
**Magazine A16 – 645, black** **30217**  
 6x4.5 cm (2 1/4x1 5/8") horizontal format on 120 film, 16 frames per roll. Supplied with focusing screen mask 42146 marked with the format, and magazine slide 41068.

**Magazine A24 – 6x6, chrome** Code **30224**  
**Magazine A24 – 6x6, black** **30225**  
 6x6 cm (2 1/4x2 1/4") format on 220 film, 24 frames per roll.  
 Supplied with magazine slide 41068.

**Magazine A32 – 645, chrome** **30232**  
**Magazine A32 – 645, black** **30233**  
 6x4.5 cm (2 1/4x1 5/8") horizontal format on 220 film, 32 frames per roll. Supplied with focusing screen mask 42146 marked with the format, and magazine slide 41068.

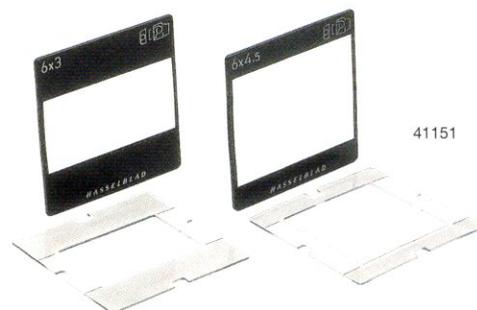
## Magazines and film cassette for 70 mm film

The Magazines for 70 mm film and the Film cassette for magazine 70 have been transferred to the Technical Photography Group. See *Scientific and metric cameras* on page 13.

## Format masks

**Set of format masks** **41151**  
 Format masks with 6x4.5 cm and panorama 6x3 cm formats fit the 501CM, 501C, 503CW and FlexBody. The masks are only available as a complete set and are supplied with corresponding focusing screen masks.

**Focusing screen mask** **42146**  
 Screen mask marked for 6x4.5 cm (2 1/4x1 5/8") format. Supplied with magazine A16, A32 and E16.



## Magazine for Polaroid film

**Magazine PolaPlus for Polaroid film** Code **30200**  
6x6 cm (2 1/4x2 1/4") format magazine for all Polaroid type 100 films or equivalent instant films. Practical for fast checks on exposure, lighting and composition. The magazine is mounted and dismounted as easily as the roll film magazines.

Features a spring-loaded catch which retains the magazine slide when it is pulled out enough to allow exposure without vignetting the film. Supplied with magazine slide **41126**, which has holes for the catch. Weight: 360 g (13 oz).

**NOTE:** The magazine for Polaroid film cannot be combined with the prism viewfinders PM90 and PME90.



30200

30244

30252

30260

30368



## E-type film magazines

For the 202FA, 203FE and 205FCC. Equipped with film speed programming dial and databus connections.

Can also be used with Hasselblad cameras, including the ArcBody and FlexBody without built-in exposure metering, but then work purely mechanically.

**Magazine E12 - 6x6, chrome** Code **30244**

**Magazine E12 - 6x6, black** Code **30248**

6x6 cm (2 1/4x2 1/4") format on 120 film, 12 frames per roll. Supplied with magazine slide **41068**.

**Magazine E16 - 645, chrome** Code **30252**

**Magazine E16 - 645, black** Code **30256**

6x4.5 cm (2 1/4x1 5/8") horizontal format on 120 film, 16 frames per roll. Supplied with focusing screen mask **42146** marked for the format, and magazine slide **41068**.

**NOTE:** The Magazine E16 - 645 in black trim is to be discontinued during 2000.

**Magazine E24 - 6x6, chrome** Code **30260**

**Magazine E24 - 6x6, black** Code **30267**

6x6 cm (2 1/4x2 1/4") format on 220 film, 24 frames per roll. Supplied with magazine slide **41068**.

**NOTE:** The Magazine E24 - 6x6 in black trim is to be discontinued during 2000.

## E CC film magazine

For the 205FCC. Equipped with databus connections and programming dials for film speed and contrast adjustment.

Can also be used with the 202FA and 203FE, disregarding the contrast adjustment function, and with all camera models, including the ArcBody and FlexBody without built-in exposure metering, but works then purely mechanically.

**Magazine E12 CC - 6x6, chrome** Code **30368**

6x6 cm (2 1/4x2 1/4") format on 120 film, 12 frames per roll. Supplied with magazine slide **41068**.

## Magazine weights:

The weight of A-type and E-type film magazines is approx. 450 g (1 lb).

# Flash equipment



The Hasselblad D-Flash 40 is a powerful flash unit, dedicated to the Hasselblad TTL/OTF flash metering system. Its compact and lightweight design and ease of operation make it ideal for all-round and fill-in flash photography. The adjustable reflector provides a symmetrical illumination to suit the Hasselblad square image format.



## D-Flash 40

### D-Flash 40

Code **55105**

The D-Flash 40 connects directly to the electronics of the 500 and 200 series cameras with built-in TTL/OTF flash metering system. Since the flash works in automatic TTL-mode only, operation is very simple. Only two controls are used – a power switch and a flash test button, which is illuminated when the flash is ready. The system provides flash ready signal and exposure information in the camera's viewfinder.

The reflector can be adjusted for normal or wide-angle use, or be removed for bare bulb lighting. The flash head can be rotated 330° and tilted 90° upwards and 10° downwards for close range photography.

With the reflector in the normal position the guide number is 40/137 (m/ft), and in the wide-angle position 33/110 (m/ft) at ISO100.

The D-Flash 40 is powered by six 1.5V size AA Alkaline or NiCd cells. The batteries can be backed-up by the optional Rechargeable NiCd battery pack DF, which increases the capacity to 2250 flashes. Irrespective of power source, the flash unit's recycling time can be as short as 0.3 s.

The D-Flash 40 is supplied with the Rear cover MultiControl, which replaces the film magazine when making test exposures.

Weight: 610 g (1 lb 6 oz) without batteries.

*Supplied with the following equipment:*

- Reflector, standard
- Flash tube
- Battery holder
- Sync cord
- Rear cover MultiControl (See page 39)

## Optional accessories

### Rechargeable NiCd battery pack DF

Code **55126**

The benefits of the D-Flash 40 are maximized when it is powered by the rechargeable battery pack. Fully charged, its cluster of NiCd cells will supply power for up to 2250 flashes at low power and up to 270 flashes at full power.

The practical leather carrying case features both a belt clip and a detachable shoulder strap.

Using the optional Battery charger DF, the battery pack recharges fully within 8 hours.

Weight incl. case: 925 g (2 lb 0.5 oz).

(Not available in the U.S.)

Battery charger DF **55129**

(230-240V European plug)

Battery charger DF **55130**

(100-250V American plug)

Sync cord 1.5 m **55117**

Extension cord SCA 1 m **55120**

Extension cord SCA 5 m **55147**

# Flash grip and tripod accessories

The ergonomically designed grip provides support for hand-held shots. Other accessories facilitate tripod attachment and horizontal positioning of the camera.



45169

43125



51681

## Flash adapter SCA 390 Code 51681

For connecting flashes compatible with the SCA 300 system to the 500 and 200 series cameras with TTL/OTF flash metering system. Can be attached to the flash shoe on prism viewfinders, to the flash gun bracket, or the accessory rail on the 500 series cameras.

## Adjustable flash shoe Code 43125

The rotatable flash shoe slides onto the accessory rail on the left side of the 500 series cameras. It is designed to hold a small electronic flash unit only.

## Snap-lock flash grip Code 45169

The Snap-lock flash grip is designed to support the D-Flash 40 and other hand-held flash units. It is also an adjustable ergonomic camera grip fitted with a leather wrist strap and a built-in cable release.

A 360° swivelling snap-lock mechanism allows the handle to be tilted forwards and backwards to any desired position. In the upright position two flash shoes allow correct flash head angle whether the camera is held to the eye or at waist-level.

The handle complete with mounted flash unit can be instantly detached from the bracket for flash-off-camera shooting.

An integrated Hasselblad Tripod quick-coupling S ensures rapid attachment to all current Hasselblad camera models and earlier models fitted with the Quick-coupling plate S, except the Hasselblad XPan camera.

**NOTE:** When used on the 555ELD or previous ELX/EL models, the Release button has to be replaced by the Release adapter 46213.

43117



45148



45144

## Tripod quick-coupling S Code 45144

Designed to fit the base plate with bevelled sides, which is standard on all current Hasselblad camera models except the Hasselblad XPan. Mounted on a tripod it facilitates the attachment and removal of the camera. The camera is firmly held in an exact and repeatable position.

An integrated spirit level makes horizontal positioning of the camera easy.

The Tripod quick-coupling S has 1/4" and 3/8" tripod threads and guiding pin recesses.

## Quick-coupling plate S Code 45148

For adapting earlier Hasselblad camera models, bellows extensions and telephoto lenses, as well as cameras from other manufacturers, to the Tripod quick-coupling S 45144. The coupling plate is placed over the existing base plate and fastened to the camera tripod thread.

## Spirit level Code 43117

The spirit level is particularly useful in wide-angle photography. It attaches to the accessory rail on the left-hand side of the camera and can be used on all 500 series camera models.

# PCP80 Projector



PCP80  
70101



70210

70205

70214



70524

70525



70303

*The PCP80 is a truly professional projector for 6x6 cm (2 1/4x2 1/4") transparencies. It is designed and built with the same stern demands on optical and technical quality as Hasselblad cameras. Built-in perspective control, superb Zeiss lenses, a rotary slide magazine for 80 slides and a number of unique features put the PCP80 in a class of its own.*

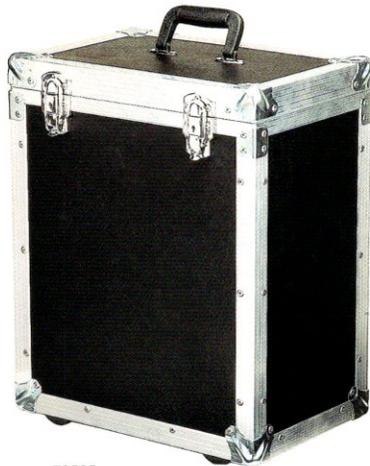
The projector's optical system is optimized for each individual lens by the provision of a matched condenser and a simple adjustment.

Using the built-in perspective control with the projector horizontally positioned, the screen image can be raised or lowered without distortion. The PCP80 always produces a right-angled image on the screen, allowing perfect lining-up of stacked projectors.

To avoid interruptions in slide presentations, the PCP80 features automatic lamp replacement. If the projector lamp fails, a pre-adjusted reserve lamp immediately clicks into place. Other safety features are the sophisticated dust-proof cooling system, which uses pressurized, filtered air, and two fuse circuits, which protect the electronic system and slides.

PCP80 uses rotary slide magazines for 80 mounted 6x6 cm (2 1/4x2 1/4") transparencies. The magazine can be detached without having to re-set to zero.

There are three different connectors for external control systems: a standard 6-pin DIN socket, an 8-pin DIN socket and a 12-pin AV socket for controlling the lamp with or without the built-in TRIAC. In addition, 12-pin and 7-pin AV connectors (Adapter AA) for professional systems are available as accessories.



70535



70517



70507

70538

70541



70547



70511

## PCP80 projector & accessories

The Hasselblad PCP80 projector is supplied as separate components.

### Hasselblad PCP80 projector body

Code **70101**

With power cord but without lens or rotary slide magazine. Can be switched to 110/130/220/240V 50-60 Hz. Supplied with front protective cover PCP80, 70532. Weight 14 kg (31 lb).

### Hasselblad PCP80 projector body

Code **70104**

A special version for 120 V 50-60 Hz mains voltage (USA).

### Hasselblad PCP80 projector body

Code **70107**

A special version for 100 V 50-60 Hz mains voltage (Japan).

### Zeiss P-Planar 3.5/150 mm projector lens

Code **70205**

Standard projector lens. Supplied with matching condenser lens and front lens cap 75/150, 70526. Allows full utilization of perspective control.

### Zeiss P-Distagon 3.5/75 mm projector lens

Code **70214**

Lens for short projection distances (e.g. back projection). Supplied with matching condenser lens and front lens cap 75/150, 70526. Allows limited utilization of perspective control.

### Zeiss P-Sonnar 4/250 mm projector lens

Code **70210**

Lens for long projection distances. Supplied with matching condenser lens and front lens cap Ø93-100, 51654. Allows full utilization of perspective control.

**Rotary slide magazine** Code **70303**  
Holds 80 transparencies in 7x7 cm (2 3/4x2 3/4") mounts.

**Remote cable control unit** **70507**  
For manual slide change and focusing. Cable length: 4 m (approx. 13').

**Projector rack, basic unit** **70517**  
For twin projector set-ups.

**Supplementary unit for projector rack** **70518**  
Add-on unit to permit stacking.

**Registration slide mounts 6x6 cm (2 1/4x2 1/4")** **70511**

Slide mounts with special guide pins to simplify perfect image positioning in Rostrum cameras or in Hasselblad multi-imaging. Box of 40 mounts.

**Alignment slide** **70520**  
For precise adjustment of projectors in a multi-projector set-up.

**Projector case** **70535**

A sturdy plywood frame with aluminium and steel reinforcements. Foam plastic interior. Holds the PCP80 projector body. Dimensions: approx. 430x510x285 mm (17x20x11").

**Front lens cap 75/150** **70526**

Protects the front lens element of the P-Distagon 75 mm and P-Planar 150 mm lenses. Supplied with the lens.

**Front lens cap Ø93-100** **51654**

Protects the front lens element of the P-Sonnar 250 mm lens. Supplied with the lens.

**Front protective cover** Code **70532**  
To protect the projector when no lens is attached. Supplied with the projector body.

**Dust cover** **70547**  
Soft dust cover to protect the projector when not in use.

**Power cord** **70538**  
European plug. Length: 2.5 m (approx. 8'). Supplied with the projector body.

**Power cord** **70539**  
American plug. Length: 2.5 m (approx. 8'). Supplied with the projector body.

**Air filter** **70541**  
Supplied with the projector body.

**AV Connectors**  
Please contact your Hasselblad distributor for information about which connector to use with the various control systems.

**12-pin AV connector/ Adapter AA** **70524**

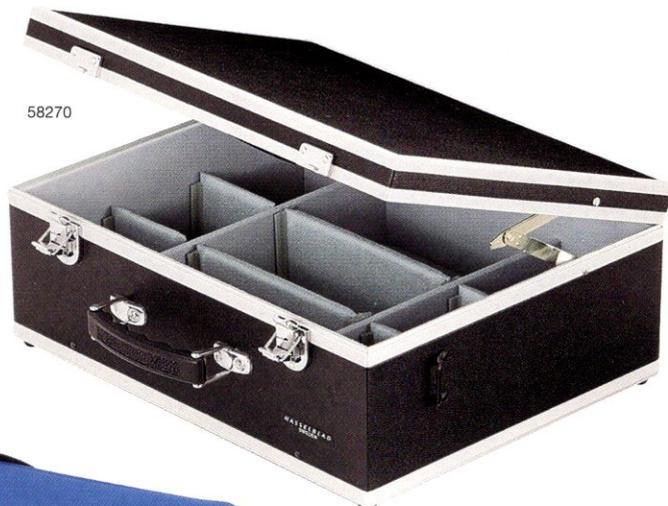
**7-pin AV connector/ Adapter AA** **70525**

For connecting certain control systems with US-type connectors.

# Carrying and protective accessories



54468



58270



58238



58397

## Cases

The Hasselblad range of cases includes soft, easily accessible camera cases of hand and shoulder types, as well as a spacious trunk. They are all hand-made and specially designed to fit and protect Hasselblad cameras and accessories.

### Camera case 507 Code 58238

A soft protective case provided with a zipper and slits for carrying strap. Designed for use with all cameras in the 500/200 series, with the prism viewfinder (except with EL models). Dimensions (LxWxH): approx. 240x95x150 mm (9.5x3.7x6").

### Case Hasselblad XPan Code 54468

An elegant shoulder bag in soft genuine leather. It is designed with the Hasselblad XPan in mind, but is also suitable for a small Hasselblad medium format outfit.

Adjustable contoured shoulder strap with non-slip underside. Dimensions (LxWxH): approx. 300x150x200 mm (12x6x8").

### Case 540 Code 58397

A soft shoulder bag made of durable, blue Cordura material. Suitable for a medium-sized Hasselblad outfit. Dimensions (LxWxH): approx. 370x200x230 mm (14.5x8x9").

### Case 712 Code 58270

A functional and spacious case for a large selection of Hasselblad equipment. The internal arrangement is flexible.

A protective rubber strip around the opening provides a weathertight seal and shields contents from dust and rain. Supplied with shoulder strap and movable leather pouch.

Weight: 4.9 kg (10 lb 13 oz).  
External dimensions (LxWxH): approx. 455x390x180 mm (18x15.5x7").  
Internal dimensions (LxWxH): approx. 410x320x150 mm (16x12.5x6").



## Lens pouches

Supplied with most Hasselblad lenses.

- Lens pouch 1** Code **58408**  
For 80 and 100 mm lenses, and Teleconverter 1.4XE, Converter 2XE and XPan 30 mm.
- Lens pouch 2** **58416**  
For 50, 60, 110, 120, 135, 150 and 160 mm lenses (except FE 50), Teleconverter APO 1.4XE and Apo-Mutar 1.7XE.
- Lens pouch 3** **58424**  
For 180 and 250 mm lenses.
- Lens pouch 4** **58432**  
For CFE 40 and FE 50.
- Lens pouch 5** **58464**  
For FE 60-120.
- Protective pouch** **58459**  
For PC-Mutar 1.4X Shift Converter.

## Straps

- Standard strap** Code **59110**  
Black polyester camera strap with rubber underside to prevent slipping. Width: 25 mm (1"). Length (approx.): max./min. 1500/900 mm (59/35.5"). Supplied with all camera bodies except the 555ELD.
- Carrying strap** **46140**  
A short, black leather strap with a rubber insert to be attached to the camera's strap lugs. Supplied with the 555ELD camera body. Length: 325 mm (13").
- Wide camera strap** **59080**  
Long, adjustable 40 mm (1.5") wide strap made of black polyester with rubber underside. Length (approx.): max./min. 1500/900 mm (59/35.5").
- Contoured shoulder strap** **59099**  
A black leather strap contoured for the shoulder giving a comfortable, non-slip, well-balanced grip. Width: approx. 30 mm (1.2"). Length (approx.): max./min. 1280/980 mm (50.5/38.5").

## Protective covers

- Rear cover MultiControl** **51070**  
Protects the rear of all Hasselblad medium format camera bodies, including the ArcBody and FlexBody. The internal surface is painted with a colour similar to normal film emulsion, which is very useful when testing a flash using the TTL/OTF flash metering system.

Small holes at the corners of the 6x6 cm format make it possible to visually check for vignetting. Supplied with all medium format bodies and the D-Flash 40.

- Front protective cover** Code **51438**  
Protects the lens mount of all camera bodies and converters, except the ArcBody, Hasselblad XPan and the teleconverters APO 1.4XE and Apo-Mutar 1.7XE.
- Front protective cover APO 1.4XE** **40764**  
Protects the lens mount and protruding front lens of the Teleconverter APO 1.4XE and Apo-Mutar 1.7XE.
- Front lens cap Ø60** **51643**  
Attaches to the inner lens bayonet mount.
- Front lens cap Ø70** **51648**  
Attaches to the inner lens bayonet mount.
- Front lens cap Variogon** **51462**  
For the Variogon CF 140-280 mm lenses. Friction-fit attachment.
- Front lens cap Ø93-100** **51654**  
For lenses with a Ø93 front mount and attached lens shade. Friction-fit attachment.
- Front lens cap Distagon CFi 30** **51659**  
Friction-fit attachment.
- Rear lens cap** **50377**  
Bayonet mount. Fits all Hasselblad lenses, ArcBody lenses and converters, except the Apo-Grandagon 35 mm, Makro-Planar CF 135 mm and Hasselblad XPan lenses.
- Rear lens cap 135** **50571**  
Bayonet mount. Fits the Makro-Planar CF 135 mm and Apo-Grandagon 35 mm.

# Accessories for 555ELD and previous ELX/EL models



46078



50776

46213



46120



46043



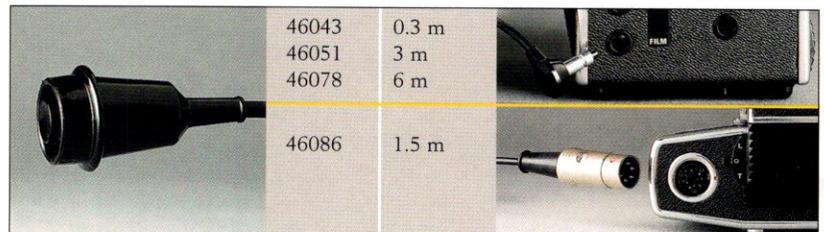
46349



44113



46086



## IR Release unit ELD Code 46349

Receiving unit for infrared remote release of the Hasselblad 555ELD. The unit attaches to the front release ports of the camera and can be set for either conventional or digital photography. Uses the IR Remote control as transmitter. Powered by the camera batteries.

Supplied with:

**IR Remote control** 44113

*Cords for the front socket*

**Release cord FK 30** 46043

Supplied with the 555ELD body.

**Release cord FK 300** 46051

**Release cord FK 600** 46078

46078 will be discontinued.

See illustrations above.

*Cords for the side socket*

**Release cord SK 150** 46086

See illustrations above.

## Release button Code 46120

The release button is used in either of the two front sockets and permits use of a release cord in the free socket. Supplied with the 555ELD body.

## Fuse 56111

1.6 A (5x20 mm) medium-slow fuse supplied with the 555ELD camera body and the Winder F.

## Release adapter 46213

## Open L-connector 50776

For the 555ELD and previous ELX/EL models when using the PC-Mutar 1.4X. The Open L-connector is also used with the FlexBody, to attach the cable release.

## Recharge unit

For recharging Battery 1 in the 500ELX and earlier EL models. Connects to the side socket of the camera.

**110V American plug** Code 56023

**230V European plug** 56024

# H A S S E L B L A D

## HASSELBLAD USA INC. FACTORY SERVICE CENTER

HASSELBLAD USA INC.  
10 MADISON ROAD  
FAIRFIELD, NJ 07004  
ATTN: SERVICE DEPARTMENT  
(973) 227-7681 or (973) 227-7320 FAX (973) 227-1063

## HASSELBLAD INDEPENDENT AUTHORIZED SERVICE CENTERS

### ARIZONA

Phoenix Camera Repair, Inc.  
3232 North 16th Street  
Phoenix, AZ 85016  
(602) 277-1811, Fax (602) 277-1803

### CALIFORNIA

California Precision Service, Inc.  
1714 28th Street  
Sacramento, CA 95816  
(916) 451-1330, Fax (916) 451-7460

Camera Service Center  
4355 Sepulveda Blvd.  
Culver City, CA 90230  
(310) 397-0072, Fax (310) 397-3473

Professional Photographic Repair  
7910 Raytheon Road  
San Diego, CA 92111  
(619) 277-3700, Fax (619) 277-5332

### COLORADO

Metro Camera Service, Inc.  
425 N. Federal Blvd.  
Denver, CO 80204  
(303) 934-2471, Fax (303) 935-5854

### DISTRICT OF COLUMBIA

Strauss Photo Technical Service, Inc.  
1240 Mt. Olivet Road NE  
Washington, DC 20002  
(202) 529-3200, Fax (202) 526-6465

### FLORIDA

Southern Photo Technical Service  
1750 Ninth Ave. North  
St. Petersburg, FL 33713  
(727) 896-6141, Fax (727) 894-8097

### GEORGIA

Peachtree Camera Repair  
562 Wylie Road, Suite # 6  
Marietta, GA 30067  
(770) 795-8020, Fax (770) 795-8030

Southeast Camera Repair  
6300 Jimmy Carter Blvd. Suite # 102  
Norcross, GA 30071  
(770) 441-7700, Fax (770) 441-7787

### ILLINOIS

Mid State Camera Service, Inc.  
407 South Dearborn Street  
Chicago, IL 60605  
(312) 939-2272, Fax (312) 939-8743

### MASSACHUSETTS

Sanford Camera Repair & Projector  
1054-56 Massachusetts Ave.  
Arlington, MA 02476  
(781) 648-2505, Fax (781) 648-2508

Precision Camera Repair, Inc.  
43 Sheridan Street  
Chicopee Falls, MA 01021  
(413) 598-8005, Fax (413) 594-7298

### MICHIGAN

Midwest Camera Repair, Inc.  
318 Oak Street  
Wyandotte, MI 48192  
(734) 285-2220, Fax (734) 283-7478

### MINNESOTA

Marguette Camera Repair,  
6311 Wayzats Blvd.  
Minneapolis, MN 55416  
(612) 541-1212, Fax (612) 541-0234

### NEW HAMPSHIRE

Hilton Command Exposures  
210 Daniel Webster Hwy. South  
Nashua, NH 03060  
(603) 888-3684, Fax (603) 888-0577

### NEW YORK

Professional Camera Repair Service  
37 West 47th Street  
New York, NY 10036  
(212) 382-0550, Fax (212) 382-2537

### OHIO

Pro Cam Company  
5303 Broadview Road  
Cleveland, OH 44134  
(216) 661-8666, Fax (216) 661-0129

### OREGON

Associated Camera Repair  
3401 North East Sandy Blvd.  
Portland, OR 97232  
(503) 232-5625, Fax (503) 236-2421

### TEXAS

Camera Repair at Dallas  
4807 W. Lovers Lane  
Suite 301  
Dallas, TX 75209  
(214) 350-9360, Fax (214) 350-7641

Havel Camera Service  
1102 Basse Road  
San Antonio, TX 78212  
(210) 735-7412, Fax (210) 734-2715

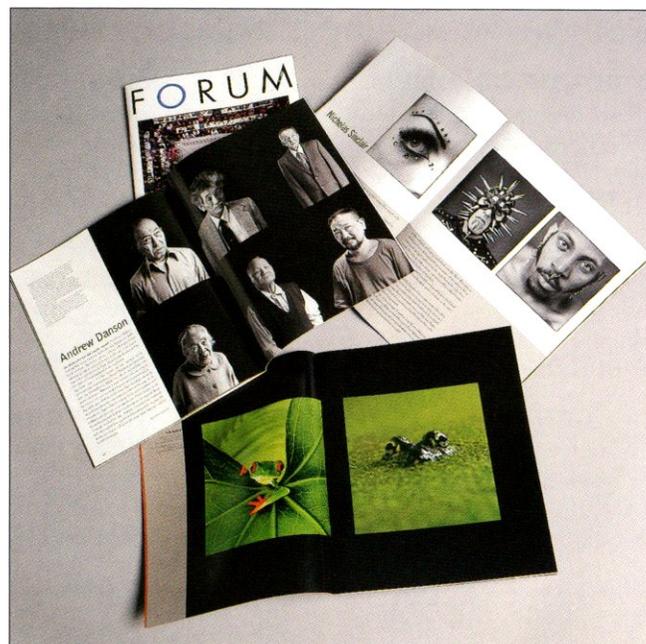
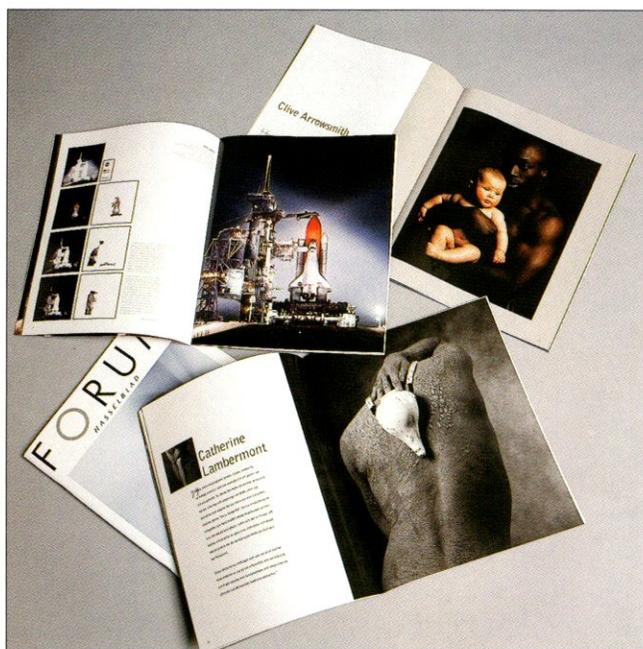
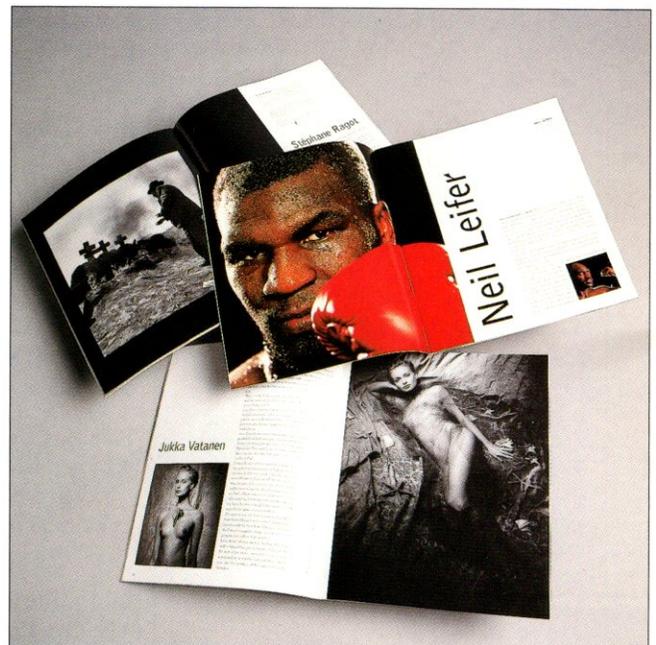
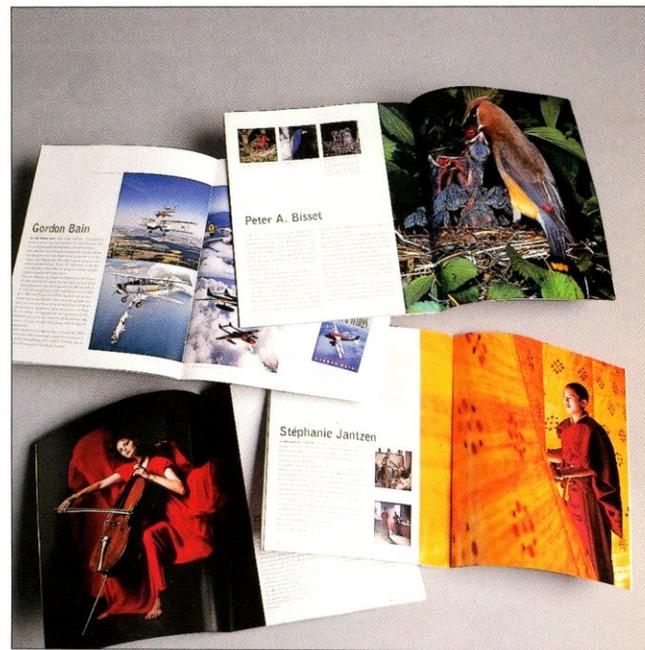
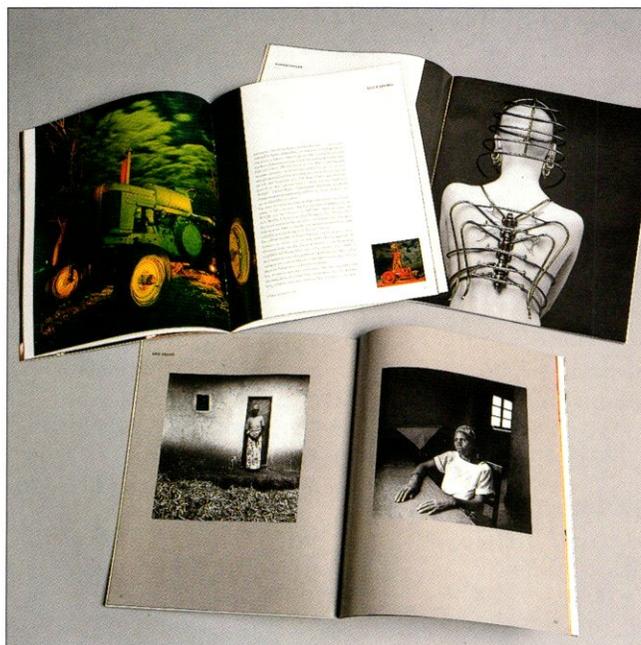
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