

2005 PANAVISION CATALOG

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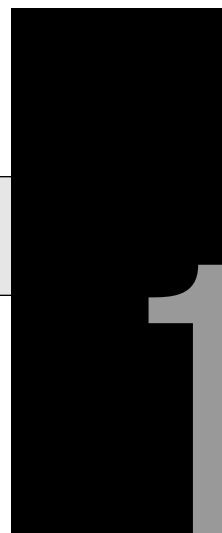
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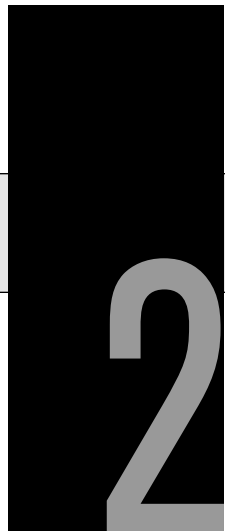
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film and camera formats



## PANAVISION ANAMORPHIC 2.40:1

For more than 40 years, Panavision has stood at the forefront of anamorphic photography. After winning Academy Awards for the patented "Auto Panatar" series of lenses, Panavision continued to develop and improve on its anamorphic knowledge, designing the "C" and "E" series lenses, culminating in 1990 with the release of the Primo anamorphics. In 1994 Panavision received a Class I Academy Award for the continued development of anamorphic lenses. Thus the phrase "Filmed in Panavision" has become synonymous with anamorphic photography, appearing on over one thousand films.

## 3 PERF®

3 Perf® cameras pull down 3 perforations per frame rather than the conventional 4 perforations per frame. Some of the advantages of 3 Perf® cameras:

- Uses 25% less film (*25% savings in cost of negative film, processing, etc.*)
- 33⅓% more running/shooting time per magazine  
(*14.81 minutes versus 11.11 minutes per 1000'; 29.62 minutes per 2000'*)
- 340% larger negative area than 16mm in NTSC
- Only 26% smaller than 4 perf in NTSC
- Ideally suited for 1.78:1 (16x9) format

## PANAVISION SUPER 35®

Panavision Super 35® is a format for shooting full aperture, utilizing a greater camera negative area. This format provides the option of releasing a film in any of 3 formats: 70mm, 2x Anamorphic, and 1.85, without cropping any of the sides. The final decision can be made in post-production, as it does require an optical process. Allows the cinematographer to use spherical lenses, while achieving a 2.40 finished product.

For more information on shooting Panavision Super 35®, please contact Panavision directly.

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FPSP35

Panavision Super 35®

*Available for conversion from standard 35mm format to Super 35mm format.*

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## TIME CODE

Panavision/Aaton Time Code system is a tool for automatically synchronizing camera negative and the production sound track. Every frame of film is "time stamped" with computer and human readable time code. A small on-set synchronizing clock links the camera time code with the sound recorder time code. In post-production, sound and picture can then be synched automatically without the necessity of slates. Current Panavision productions have voiced a savings on average of up to 8 hours of telecine time per week/episode because of Panavision/Aaton Code.

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PDTC-C

Panavision/AatonCode Clock

Synchronizes time code Nagra with time code generator.

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PDTG

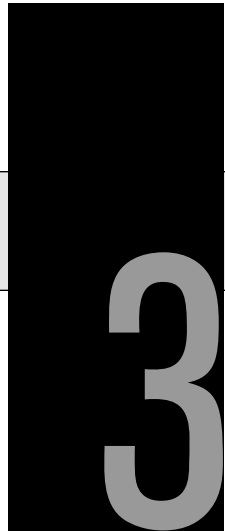
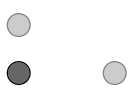
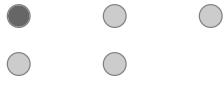
Panavision/AatonCode Generator

*Optically writes time code data on film.*

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digital systems





# GENESIS Digital Camera System

GCB

Genesis™ combines high performance electronic imaging with world-renowned Primo® cine optics for unprecedented imaging versatility. Finally, for the cinematographer, “shooting digital” means no compromise on depth of field control, portability, sensitivity, dynamic range or color. Because Genesis™ was designed from the beginning to be an integral part of the Panavision system, cinematographers have at their fingertips the vast array of Panavision’s Academy Award® winning 35mm lenses and proprietary Panaflex® accessories that they have come to expect from Panavision.

GCB	GENESIS CAMERA
SRW1	Dockable VTR—SRW-1 BASIC
HDAF	Accuscene Viewfinder
MFFGB	Follow Focus System
GRB	Iris Rod Brackets—long
GRBS	Iris Rod Brackets—short
MBMC	Modular Combo Matte Box System
SCAD	Steadicam Mount
GLMB	Steadicam Mount—low mode
GCH	Carry Handle—Top
GHH	Hollywood Carry Handle—Rear
PCOB	PFX O’Connor Base
PCMU	Univ Camera Mounts
PLL	Lens Light
EPL-M	Eyepiece Leveler
FFX6	Whip 6"
FXHL	Speed Crank
HDAP	Viewfinder Bracket
14NM33	3 Block Batteries (Anton Bauer)
GBC	Genesis Battery Charger (Anton Bauer)
GPS	Power Supply
138FR	138mm Filter Ring
4.5FR	4.5" Filter Ring
FSE	Sunshade
GADC	Active Downconverter (Ex: BNC Box)
GBOB	Genesis Power Breakout Box
GPDL	Genesis Passive Dual Link Unit
GSCB	Genesis Steadicam Base
GRCB	Genesis Remote Clicker Box
	Cases
	Cables

# GENESIS Digital Camera System

GCB

## GENESIS ELECTRONICS PACKAGE

HDAM	On Board Monitor and Brackets
ACLS	Clockit Box
SRPC	Remote Recording—SRW-1 Processor
	Power Supply for Remote Record
14NM33	3 Block Batteries

## GENESIS MONITOR PACKAGE

HD24SL	24" HD Monitor – Sony
HDWL	Leader Waveform Monitor
GDP	Display Processor (Ex: Gamma Box)

## TWO CAMERA PACKAGE

GENESIS CAMERA SYSTEM	2
GENESIS ELECTRONICS PACKAGE	2
GENESIS MONITOR PACKAGE	1

# HDW900F Digital Camera System

HD900F

HD900F		HDW900DF Digital Camera System
HDEPHD	1	Ultraview Viewfinder
HDET	1	HD Extension Tube
HDVP	1	HD Viewfinder Pivot
HDRP	1	HD Remote Control Panel
HDPS	1	HD 24/12DC Power Supply
HDSP	1	HD Steadicam Plate
HDLM	1	HD Low-mode Bracket
HDPCM1		HD Panahead Mount
HDCH	1	HD Carry Handle
HDRB	1	HD Rod Bracket
PLLV	1	Panalens Light with video
EPL	1	Eyepiece Leveler
HDMB	1	HD Matte Box
MMB4	1	Geared 4 Stage Module
MMBFC-S	1	Flexible Cable with Handle 18"
MMBFC-L	1	Flexible Cable with Handle 24"
MMB2	1	Geared 2 Stage Module
MFFGB1		Modular Follow Focus Gear Box
MFF2SK	1	Modular Follow Focus Two Speed
MFFSK		1 Modular Follow Focus Single Speed
HDFB	1	HD FF Bracket
AB100	4	AB 14.4 100WA NI Battery
ABQNI	1	AB NI Quad Charger
ABSU	1	AB Sony Up Converter (14.4/24V)
	1	Cable Package
HDCA	1	HD SDI Camera Adapter
HDCAA	1	HD Camera Adapter with Audio (SDI)
RMB150	1	HD Remote Control Unit
CBLE-RMB10	1	RMB150 10m (H8)-Sony

# HDV900F Digital Camera System

HD900F

HDAM	1	6" Astro Color Analog Monitor
HDVF	1	6" HD Color Viewfinder—Sony
HD9S	1	9" HD SDI Monitor—Sony
HD9	1	9" HD Monitor non-SDI—Sony
HD14S	1	14" HD SDI Monitor—Sony
HD14	1	14" HD Monitor—non-SDI Sony
HD14H		14" HD Monitor Hood/Shade
HD24SL		24" HD Monitor—Sony
PM42		42" Plasma Monitor
HDMP		Sony HD Monitor Probe
CDZ9		Canon HD Zoom (PV) 5.5-50mm F2
SLZ11D		9.5-105mm t1.6 Primo Digital Zoom
SBZC		Zoom Control
SLZD		6-27mm T1.6 Primo Digital Zoom
SDZW		6-27mm Primo Digital Zoom Lens
SDZT		25-112mm Primo Digital Zoom Lens
SD5		5mm T1.8 Primo Digital Prime
SD7		7mm Primo Digital Lens
SD10		10mm Primo Digital Lens
SD14		14mm Primo Digital Lens
SD20		20mm Primo Digital Lens
SD35		35mm Primo Digital Lens
HD500F		VTR—Sony HDCam Studio
DVW500		DigiBeta VTR DVW-A500
HDWT		Sony/Tek HD Waveform Monitor
HDWL		HD Leader Waveform Monitor
HDOD		Evertz HD Offline Downconverter HD Afterburner
HDMC		Evertz HD Downconverter
HDPC		Evertz HD Progressive Format C
HDR4		HD 4 Input Router
HDER		HD Engineering Rack
HDD8		Evertz 8 Out Digital DA
TC24		Timecode Generator 24FPS
TCAB		Evertz Timecode Gen/Afterburner—Standard Def
HDRG		HD Reticule Generator

# HDV900F Digital Camera System

HD900F

HDUB	HD Utility Base
HDHR	HD Handheld Rig
HDWPL	HDCAM Weather Protector Long
HDWPS	HDCAM Weather Protector Short
APM200	Videotek Audio Monitor
HDDH	HD Data Hub
CNU500	Sony Camera Network Unit
MSU750	Sony Master Setup Unit
HD5DA	AJA 4 Out SDI DA
AB100	AB 14.4 100WA NI Battery
ABQNI	AB NI Quad Charger
ABDNI	AB Dual NI Charger
ABSD	AB Sony Down Converter (24/14.4V)
BPL90	14.4V 8AH Li Battery–Sony
ACDN2	HD900 Battery Adapter–Sony

35mm camera systems



# Millennium XL Panaflex Camera System



## Features

- Ergonomic hand held eyepiece with fore-aft, up-down, and right-left eye positioning; instantly detachable for Steadicam® use
- 3-40 fps, crystal speed control, selectable in 1/1000th of a frame increments
- In shot variable 11.2-180 degree shutter
- Millennium movement requires infrequent lubrication
- Full size, full speed rotating reflex mirror
- Behind the lens filter
- Detachable, dual sided front display panel
- Rear operator panel for speed and shutter setting with full display
- Rear connectors for remote operation
- Dual sprocket design for quick threading and looping
- Internal servo motor control electronics for focus, T-stop and zoom
- Focus, T-stop and zoom connectors in faceplate
- Wired or wireless remote control
- Iris rod bracket with 24VDC power connectors
- Separate remote control for timed speed shutter compensated shots
- 200', 400', and 1000' magazines
- On board battery
- Easily Super 35 conversion
- Dual drive motors for shutter and movement, easily re-timed for effects
- 3-4 perf conversion

## Weights

Camera body only.....	11.8 lbs	.....5.35 kg
Hand held viewfinder.....	3.7 lbs	.....1.68 kg
Digital display .....	0.5 lbs	.....0.23 kg
On camera battery.....	1.8 lbs	....0.816 kg
200' magazines.....	3.5 lbs	.....1.59 kg
400' magazines.....	6.0 lbs	.....2.72 kg
1000' magazines.....	10.1 lbs	.....4.58 kg
Video viewfinder with bracket .....	1.63 lbs	....0.739 kg
Steadicam® plate low mode .....	0.32 lbs	....0.145 kg
Steadicam® plate standard.....	0.58 lbs	....0.263 kg
4x5 clip-on matte box.....	1.04 lbs	....0.471 kg
Studio viewfinder .....	8.5 lbs	.....3.85 kg
Carry handle .....	0.9 lbs	....0.408 kg
Iris rod bracket.....	0.6 lbs	....0.272 kg

# Millennium XL Panaflex Camera System

PFX-MXL

The Millennium XL is the smallest, lightest, studio quiet camera that can be quickly converted into hand held or Steadicam® configuration. Camera speed is from 3–40fps and the 11.2–180° internal motorized shutter allows for a four stop ramp speed change. Dual motors can be purposely mistimed for streaking effects. The Millennium XL is available in three different versions: Steadicam® only, Steadicam®/Hand Held, and as a full studio camera with telescoping eyepiece.

## Steadicam® MODE

	<b>2</b>	<b>24 volt Batteries</b>
PCOB	1	Camera Mount
MBPC	1	Clip-on Matte Box with rotating Pola Slot
MXLPCL	1	Battery Handle
MXLRH	1	MXL Receiver Handle
MXLPCM	1	Millennium Lightweight Camera Mount
GG	1	Ground Glass
GFH	1	Gel Filter Box
MXLSCB	1	Steadicam® Adapter Plate
MXLSS	1	Steadicam® Spacer Mount
MXLSCT	1	Steadicam® Adapter Plate–low mode
<b>FFX</b>	<b>1</b>	<b>Follow Focus Extension 12"</b>

## HAND HELD/Steadicam® MODE

<b>FSE/MBF</b>	<b>1</b>	<b>Sunshade Extension</b>
MXLFT	1	MXL Hand Held Viewing System
MFFGB	1	Modular Follow Focus Gear Box
MXLCD	1	MXL on board Monitor (NTSC)
MFFAM	1	Modular Follow Focus Adapter
LHG	1	Left Hand Grip
HHGRH	1	Hand Held Grip Right Handle
MIRBS	1	Millennium Short Iris Rod Bracket
MDD	1	Millennium Digital Display
MXLW	1	Lightweight Magazine Extension Wedge
FXHL	1	Offset Handle
LAC	1	Local Area On/Off Shutter/Speed Control
MFFSK	1	Modular Follow Focus Single Speed Knob
<b>FFX</b>	<b>1</b>	<b>Follow Focus Extension 12"</b>



# Millennium XL Panaflex Camera System

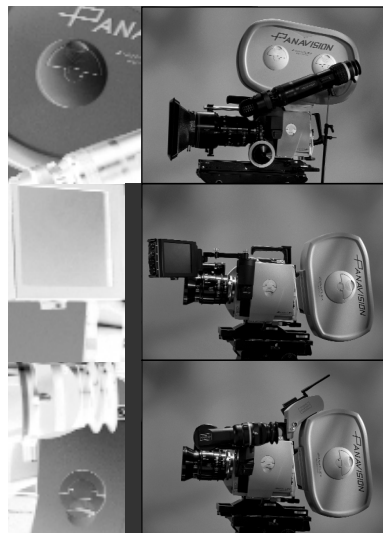
PFX-MXL

## STUDIO MODE

MEPX	1	Millennium Studio Extension Eyepiece
EPL-M	1	Eyepiece Leveler-Millennium
MB	1	Matte Box
MMB	1	Modular Monitor bracket
MIRB	1	Millennium Iris Rod Bracket
PLLV	1	Panalens Lite with Video
<b>FFX</b>	<b>1</b>	<b>Follow Focus Extension 12"</b>

## ACCESSORIES

MFZ	Millennium Digital Link FTZSAC Controller <i>Digital link version of FTZSAC. Remote focus, T-stop, zoom, speed and aperture control. RS232 serial control, wired and wireless.</i>
MXL4	400' Millennium Lightweight Magnesium Magazine
MXL2	200' Millennium Lightweight Magnesium Magazine
HHGA2	Lightweight Hand Held Grip Assembly
MXLHR	MXL Remote Receiver
HHGZC	Hand Held Grip Zoom Control
MXLOBB	Millennium Lightweight on-board Battery
XHS4	MXL 400' Handheld Weather Protector—short
XSL10	MXL 1000' Studio Weather Protector—long
XSL4	MXL 400' Studio Weather Protector—long
XSS10	MXL 1000' Studio Weather Protector—short
XSS4	MXL 400' Studio Weather Protector—short
MXLPCL	Millennium Lightweight Battery Handle



STUDIO MODE

HAND HELD with VIDEO VIEWFINDER

HAND HELD with OPTIONAL ON-BOARD BATTERY and DATA TRANSMITTER

# Millennium Panaflex Camera System

PFX-M



## Features

- 3-50 frames per second
- 11.2-180 motorized shutter
- Remote witness camera monitor
- Lens light with built-in witness camera
- 5" on board video monitor
- Left/right eye positionable hand held eyepiece
- Telescoping extension eyepiece
- Viewing system detaches quickly for Steadicam® conversion
- Enhanced video image, optionally bypassing ground glass
- Flicker free video assist with RGB video out
- Internal focus, T-stop and zoom motor control
- Internal or (integral) faceplate connectors for focus, T-stop and zoom motors
- Digital link wireless control
- Modular follow focus
- Hand held remote for camera on/off and speed/shutter control
- Fully adjustable hand held grip assembly
- Multiple camera status displays

## Weights

- Steadicam® mode (no mag, no lens).....17.5 lbs.
- Camera in hand held mode, 400' mag .....28.3 lbs.  
(no film, no lens)
- 400' Magazine .....6 lbs.
- 1000' Magazine.....12 lbs.

# Millennium Panaflex Camera System

PFX-M

The Millennium is a lightweight studio quiet camera that can be quickly converted into hand held or Steadicam® configuration. Camera speed is from 3–50 fps and the 11.2–180° internal motorized shutter allows for a four stop ramp speed change.

<b>MCV</b>	<b>1</b>	<b>Millennium Color Video Tap</b> <i>Substantially improved picture quality and optional ground glass optical bypass system for further video enhancement, flicker free, electronic deanamorphoser</i>
	<b>4</b>	<b>24 volt Batteries</b>
<b>PLLV</b>	<b>1</b>	<b>Panalens Lite with built-in Video Witness Camera</b> <i>(includes additional on board Witness Monitor)</i>
<b>LCDM5</b>	<b>1</b>	<b>On Board Video Monitor</b> <i>Either on board Monitor can be used for hand held operation without optical viewfinder</i>
<b>FSE/MBF</b>	<b>1</b>	<b>Sunshade Extension</b>
<b>MFFGB</b>	<b>1</b>	<b>Modular Follow Focus</b> <i>with single and dual speed knob for ramp speed shots</i>
<b>LAC</b>	<b>1</b>	<b>Camera On/Off and Speed/Shutter Control Unit</b>
<b>MEPX</b>	<b>1</b>	<b>Telescoping Eyepiece Extension with Magnifier and Internal Heater</b> <i>Maintains constant focus and image magnification</i>
<b>MSCCP</b>	<b>2</b>	<b>Steadicam® Adapter Plates</b>
<b>MIRB</b>	<b>1</b>	<b>Iris Rod Bracket with 24 and 12 volt DC Outlets</b>
<b>HHPCH2</b>	<b>1</b>	<b>Hand held Panaclear Handle 2</b>
<b>MB</b>	<b>1</b>	<b>Wide Angle Matte Box</b>
<b>MGG</b>	<b>1</b>	<b>Ground Glass (Panaglow) or optional clear Format Screen</b>
<b>MGFH</b>	<b>1</b>	<b>Box (12) Gelatin Filter Holders</b>
<b>CBLE-24P</b>	<b>2</b>	<b>Power Cables</b>
<b>HHGA</b>	<b>1</b>	<b>Hand held Accessories</b> <i>(new, fully adjustable, ergonomically designed hand held grip assembly)</i>
<b>IRISROD</b>	<b>3</b>	<b>Pairs of Iris Rods</b>
<b>SRB</b>	<b>1</b>	<b>Short Iris Rod Bracket</b>
<b>PCM/PCOB</b>	<b>1</b>	<b>Sliding Base Plate</b>
<b>EPL-M</b>	<b>1</b>	<b>Eyepiece Leveler</b>
<b>MEPP</b>	<b>1</b>	<b>Hand held Eyepiece with Internal Heater</b> <i>(left and right eye positioning)</i>
<b>FFX</b>	<b>1</b>	<b>Follow Focus Extension 12"</b>
<b>CBLE-24H/P</b>	<b>2</b>	<b>24 volt Heater/Power Cables</b>
<b>CBLE-EMRG</b>	<b>1</b>	<b>Emergency Cable</b>
<b>FXHL</b>	<b>1</b>	<b>Speed Crank/L-Handle</b>
<b>MWP</b>	<b>1</b>	<b>Weather Protector (Millennium)</b>
<b>MFZ</b>		<b>Millennium Digital Link FTZSAC Controller</b> <i>Digital link version of FTZSAC. Remote focus, T-stop, zoom, speed and aperture control. RS232 serial control, wired and wireless.</i>
<b>MM10</b>		<b>1000' Millennium Lightweight Composite Magazine</b>
<b>MM4</b>		<b>400' Millennium Lightweight Composite Magazine</b>

# Platinum Panaflex Camera System

PFX-P

Crystal controlled 4-36 fps forward and reverse in  $\frac{1}{10}$  frame increments, variable in-shot focal plane shutter 50-200 degrees, full-fitting dual registration pins. High performance color corrected viewfinders. For both studio and hand held use.

	<b>4</b>	<b>24 volt Batteries</b>
<b>PLL</b>	<b>1</b>	<b>Panalens Lite</b>
<b>FSE/MBF</b>	<b>1</b>	<b>Sunshade Extension</b>
MB	1	Wide Angle Matte Box
GG	1	Ground Glass ( <i>Panaglow</i> )
GFH	1	Box (12) Gelatin Filter Holders
CBLE-24P	2	Power Cables
PFF-P	1	Follow Focus Unit
SB, MOV, SIL	1	Maintenance Kit with 3 Circuit Boards
RHG	1	Right Hand Grip
LHG	1	Left Hand Grip
SRP	1	Shoulder Rest
IRISROD	3	Pairs of Iris Rods
LRB	1	Long Iris Rod Bracket
SRB	1	Short Iris Rod Bracket
PCM/PCOB	1	Sliding Base Plate
EPL	1	Eyepiece Leveler
EPX-P	1	Extension Viewfinder
EPP	1	Hand held Eyepiece
EPH	1	Built-in Eyepiece Heater
FFX	1	Follow Focus Extension 12"
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-EMRG	1	Emergency Cable
FXHL	1	Speed Crank/L-Handle
PM10		1000' Magazine with Digital Display
PRM10		1000' Reversing Magazine
M10		1000' Panaflex Magazine
M5		500' Panaflex Magazine
M2		250' Panaflex Magazine
EPI-P		Platinum Medium Eyepiece
PCV		Panavision Color Video Assist
SCCD-C		Super CCD-B&W Video Assist

# Golden Panaflex GII Camera System

PFX-GII

Crystal controlled at 24, 25 and 29.97 fps, variable speed from 4-34 fps, variable in-shot focal plane shutter 50-200 degrees, full fitting dual registration pins. The GII features a modified viewfinder system that is significantly brighter, both wide open and stopped down. For both studio and hand held use.

	<b>3</b>	<b>24 volt Batteries</b>
<b>PLL</b>	<b>1</b>	<b>Panalens Lite</b>
<b>FSE/MBF</b>	<b>1</b>	<b>Sunshade Extension</b>
MB	1	Wide Angle Matte Box
GG	1	Ground Glass ( <i>Panaglow</i> )
GFH	1	Box (12) Gelatin Filter Holders
CBLE-24P	2	Power Cables
PFF	1	Follow Focus Unit
SB, MOV, SIL	1	Maintenance Kit with 4 Circuit Boards
RHG	1	Right Hand Grip
LHG	1	Left Hand Grip
SR	1	Shoulder Rest
IRISROD	3	Pairs of Iris Rods
LRB	1	Long Iris Rod Bracket
SRB	1	Short Iris Rod Bracket
PCM/PCOB	1	Sliding Base Plate
EPL	1	Eyepiece Leveler
EPX	1	Extension Viewfinder
EPP	1	Hand held Eyepiece
EPH	1	Built-in Eyepiece Heater
FFX	1	Follow Focus Extension 12"
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-EMRG	1	Emergency Cable
FXHL	1	Speed Crank/L-Handle
M10		1000' Panaflex Magazine
M5		500' Panaflex Magazine
M2		250' Panaflex Magazine
EPI-P		Medium Eyepiece
PCV		Panavision Color Video Assist
SCCD-C		Super CCD-B&W Video Assist

# Golden Panaflex Camera System

PFX-G

Crystal 24, 25, 29.97. Variable speed 4-34 fps, in-shot shutter adjustment 50-200 degrees. For both studio and hand held use.

	<b>3</b>	<b>24 volt Batteries</b>
<b>PLL</b>	<b>1</b>	<b>Panalens Lite</b>
<b>FSE/MBF</b>	<b>1</b>	<b>Sunshade Extension</b>
MB	1	Wide Angle Matte Box
GG	1	Ground Glass ( <i>Panaglow</i> )
GFH	1	Box (12) Gelatin Filter Holders
CBLE-24P	2	Power Cables
PFF	1	Follow Focus Unit
SB, MOV, SIL	1	Maintenance Kit with 4 Circuit Boards
RHG	1	Right Hand Grip
LHG	1	Left Hand Grip
SR	1	Shoulder Rest
IRISROD	3	Pairs of Iris Rods
LRB	1	Long Iris Rod Bracket
SRB	1	Short Iris Rod Bracket
PCM/PCOB	1	Sliding Base Plate
EPL	1	Eyepiece Leveler
EPX	1	Extension Viewfinder
EPP	1	Hand held Eyepiece
EPH	1	Built-in Eyepiece Heater
FFX	1	Follow Focus Extension 12"
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-EMRG	1	Emergency Cable
FXHL	1	Speed Crank/L-Handle
M10		1000' Panaflex Magazine
M5		500' Panaflex Magazine
M2		250' Panaflex Magazine
EPI-P		Medium Eyepiece
PCV		Panavision Color Video Assist
SCCD-C		Super CCD-B&W Video Assist

# Panaflex Lightweight Camera System

PFXLW-II

The Panaflex Lightweight Camera is ideal for Steadicam use, sync sound, 180° fixed shutter, runs 4 to 36 fps, and is crystal controlled at 24 fps.

B4C	2	24 volt Belt Batteries
GG	1	Ground Glass
MBP	1	Clip-on Matte Box
	1	B&W Video Assist Camera
DDR2		Remote Camera display showing camera footage, speed, and battery condition

**LWZ3 85/200mm T4 Lightweight Zoom III**  
*Lens weight without motor 2½ lbs; with motor 3½ lbs. Length at infinity focus 6½", diameter 4". Close focus—4'. 60mm front filter capability. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.*

**LWZ2 17.5/34mm T2.8 Lightweight Zoom II**  
*Lens weight less than 1½ lbs. Length 4", diameter 3.5". Close focus—1½' Stackable 77mm front filter capability. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.*

**LWZ 27/68mm T2.8 Lightweight Zoom**  
*Lens weight without motor 2 lbs; with motor 3 lbs. Length 5", diameter 3.5". Close focus—3'. Comes with 5 complimentary 72mm filters. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.*

## ACCESSORIES

M5-PG	500' Panaflex Lightweight Magazine
CBLE-PGRF12	Panaglide Remote Focus and T-Stop Cable 12'

# Panastar II High Speed Camera System

PSTR-P

4 to 120 fps, crystal controlled in one frame increments both forward and reverse, (to run in reverse requires reversing magazine), 29.97 fps crystal, five pounds lighter than the original Panastar System, variable Panaglow ground glass, digital readout of shutter angle, dual pin registered. Ideal for critical photography including matte work, special effects, miniatures, stunts, and commercials. Shutter degrees 45–180.

<b>3 24 volt Batteries</b>		
MB	1	Wide Angle Matte Box
GG	1	Ground Glass
GFH	1	Box (12) Gelatin Filter Holders
CBLE-24P	2	Power Cables
STFF	1	Panastar Follow Focus
SB, MOV, SIL	1	Maintenance Kit with 3 Circuit Boards
RHG	1	Right Hand Grip
LHG	1	Left Hand Grip
SRP	1	Shoulder Res
IRISROD	3	Pairs of Iris Rods
LRB	1	Long Iris Rod Bracket
SRB	1	Short Iris Rod Bracket
PCM/PCOB	1	Sliding Base Plate
EPL	1	Eyepiece Leveler
STEX	1	Extension Viewfinder
STE	1	Short Eyepiece
EPH	1	Built-in Eyepiece Heater
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-EMRG	1	Emergency Cable
FFX	1	Follow Focus Extension 12"
FXHL	1	Speed Crank/L-Handle
STM10		1000' High Speed Magazine
STM5		500' High Speed Magazine
STRM10		1000' Reversing Magazine
PCV		Panavision Color Video Assist
SCCD-C		Super CCD-B&W Video Assist



# Pan-Arri 435 Camera System

435ES

Panavised version of the Arri 435. Accepts Panavision lenses and a wide range of Panavision matte boxes and accessories. Electronic shutter that can be continuously adjusted from 11.2 to 180 degrees while running. Viewfinder pivotable in two axes, dual-pin registration with multi-claw movement for image steadiness from 1-150 fps both forward and reverse. Large LCD display control panel.

<b>26LA10</b>	<b>3</b>	<b>26 volt Batteries</b>
IVSOM	1	Integrated Video Optics Module
F3	1	Standard Finder 435ES
GG	1	Ground Glass ( <i>Arriglow</i> )
ZV3	1	24 volt Multi Accessory Connector
IRB-A2	1	Iris Rod Bracket 435ES
RCU	1	Remote Control Unit
FE3	1	Extension Finder 435ES
BP9	1	Bridgeplate Top 435ES
ABP	1	Arri Base Plate
IRISROD	4	Pairs of Iris Rods
MB	1	Wide Angle Matte Box
FFW	1	Follow Focus Whip ( <i>Arri/Aaton</i> )
ASC	1	Arri Follow Focus Focusing Crank
FFE	1	Follow Focus Extension 435ES
FF4	1	Follow Focus 435ES
BA3	1	Adapter Follow Focus 435ES
FFK	1	Follow Focus Knob 435ES
FFRK	1	Follow Focus Right Knob 435ES
EL3	1	Finder Support 435ES
RBQ	1	Ronford Baker Quick Release
SHTG	1	Sachtler Head Touch & Go Plate
HE3	1	Heated Eyecup 435ES
	1	Set of Power, RCU, Heater, Interface and Auxiliary Cables
IVS		Integrated Video System 435ES
SCA2		Remote Video Top 435ES <i>(required to convert camera to Steadicam mode)</i>
M300		1000' Arri 435 Magazine
M120		400' Arri 435 Magazine <i>(reversing)</i>
M120S		400' Arri 435 Steadicam Magazine <i>(reversing)</i>
M120SL		400' SL Cine 435 Steadicam Magazine
PLL		Panalens Lite
LFF		Hand held Arri Lightweight Follow Focus Unit
HHGA		Hand held Grip Assembly
AS4		Arri Shoulder Set

# Pan-Arri III Camera System

PAIII

Panavised 24 volt version of the Arri III. Accepts all Panavision lenses and a wide range of Panavision matte boxes and accessories. 4 to 120 fps.

<b>3 24 volt Batteries</b>		
<b>MFFGB</b>		<b>Modular Follow Focus</b> — <i>The ultimate follow focus; very smooth action, zero backlash, allows focus from either side of the camera. Modular Follow Focus Right Angle Adapter available on request at no cost.</i>
GG	1	Ground Glass
AIIIRHG	1	Right Hand Grip
LHG	1	Left Hand Grip
HG	1	Hand Grip
CBLE-24HP	2	Power Cables
PAA	1	Adapter Plate
MB	1	Wide Angle Matte Box
IRB-A	1	Universal Iris Rod Adapter
PCOB/PCM	1	O'Connor Sliding Base
PAIIIHSC	1	Crystal High Speed Motor Control (4–120 fps)
	1	Door
AUSS		Arri Universal Shoulder Support
AM1000		1000' Magazine
AM400		400' Magazine
AM200		200' Magazine
AM400HH		400' Pan-Arri Magazine, hand held
AM200HH		200' Pan-Arri Magazine, hand held
CCD-JC		Arri CCD Color Video Assist ( <i>for Jurgen Door</i> )
ACV-J		Arri Color Video Assist 12,500.00
CCD-J		Arri CCD B&W Video Assist ( <i>for Jurgen Door</i> )
PAIIIHSC		Cinema PAIII Crystal High Speed Control ( <i>flat base</i> )
LHXA		Adjustable Left Hand Grip Extension
AIIIAEV		Extension Eyepiece with Anamorphoser
AIIIAFD		Anamorphic Fixed Door
AIIIPD		Pivoting Rotatable Viewfinder Door
AIIIFD		Fixed Door
AIIIOD		Offset Door, hand held
PAIIJJD		Offset Pivoting Door – Video Ready
AIIIPDV		Arri III Pivoting Video Door
AIIIEPX		Eyepiece Extension
AWP-L/AWP-S		Arri Weather Protector ( <i>long and short</i> )
NI		Norris Intervalometer
RSB-A		Remote Switch Control with Digital Display
CBLE-RSA		Arri Remote Switch Cable

# Pan-Arri IIC Camera System

PAII

Panavised version of the Arri IIC. Accepts all Panavision lenses and a wide range of Panavision matte boxes and accessories. Maximum speed of 72 fps, non-pin registered.

PAMB	1	Wide Angle Matte Box
VR	1	Variable Speed Motor
GG	1	Ground Glass
FF	1	Follow Focus Unit
SAD	1	Spherical or Anamorphic Door
AB	1	Base Plate
CBLE-24AM	2	Power Cables
<hr/>		
AUSS		Arri Universal Shoulder Support
CCD-JC		Arri CCD Color Video Assist <i>(for Jurgen Door)</i>
CCD-J		Arri CCD B&W Video Assist <i>(for Jurgen Door)</i>
PAIJD		Pan-Arri II Jurgen Door — <i>Pivoting, rotatable viewfinder door, video ready. Complimentary with CCD-JC and CCD-J.</i>
PAIHSC		CE Base <i>(Cinema PAII crystal high speed control, 2–72 fps, flat base)</i>
AM400		400' Magazine
AM200		200' Magazine
AM400HH		400' Pan-Arri Magazine, hand held
AM200HH		200' Pan-Arri Magazine, hand held
PAA		Adapter Plate
AHH		Arri Hi-Hat
MB		Matte Box: <i>Standard/Wide Angle</i>
AB		Base Plate
ACM		Crystal Controlled Motor <i>(24 volt, 24 fps)</i>
M-CS, TR		Constant Speed Motor <i>(24 volt, 24 fps, Non-Crystal)</i>
AHSM		High Speed Motor <i>(36 volt, 4–72 fps)</i>
VR		Variable Speed Motor <i>(4–28 fps)</i>
APF		Periscope Viewfinder Attachment
AWP-L/AWP-S		Arri Weather Protector <i>(long and short)</i>

video systems



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## PANAFLEX/PANASTAR VIDEO ASSIST

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<b>PCV</b>	<b>Panavision Color Video Assist with Frameline and Character Generator</b> <i>Flicker free at 24 and 30 fps, auto color balance, normal and boost gain, ND filter, wide sensitivity range. Displays camera speed, film footage.</i>
<b>SCCD-C</b>	<b>Super CCD—B&amp;W Video Assist (Platinum, Gold, GII, Panastar)</b> <i>Bright, high resolution, no lag, reduced flicker, auto/manual gain and iris, filter wheel.</i>

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## PAN-ARRI 435 COLOR VIDEO ASSIST

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<b>IVS</b>	<b>Integrated Video System 435ES</b>
<b>SCA2</b>	<b>Remote Video Top 435ES</b> <i>(required to convert camera to Steadicam mode)</i>

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## PAN-ARRI III COLOR VIDEO ASSIST

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<b>ACV-J</b>	<b>Arri Color Video Assist (Jurgen—ergonomically designed for ease of use)</b>
<b>ACV</b>	<b>Arri Color Video Assist</b> <i>Flicker free at 24 and 30 fps, auto color balance, normal and boost gain, ND filter, wide sensitivity range.</i>
<b>CCD-JC</b>	<b>Arri CCD Color Video Assist (for Jurgen Door)</b>

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## PAN-ARRI III B&W VIDEO ASSIST

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<b>CCD-A</b>	<b>Arri CCD B&amp;W Video Assist (for Arri Door)</b>
<b>CCD-J</b>	<b>Arri CCD B&amp;W Video Assist (for Jurgen Door)</b>

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## PAN-ARRI IIC VIDEO ASSIST

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<b>CCD-JC</b>	<b>Arri CCD Color Video Assist (for Jurgen Door)</b>
<b>CCD-J</b>	<b>Arri CCD B&amp;W Video Assist (for Jurgen Door)</b>

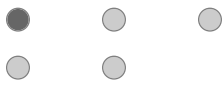
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## VIDEO MONITORS AND ACCESSORIES

MXLCD	<b>Millennium Lightweight On Board Monitor</b>
LCDM5U	<b>On Board LCD Monitor (5")</b> <i>PAL/SECAM/NTSC compatible, with built-in deanamorphozer</i>
LCDM5	<b>On Board LCD Monitor (5")</b>
LCDM4	<b>On Board LCD Monitor (4")</b>
3VM	<b>Portable B&amp;W Monitor (3")</b>
VM8CR	<b>Video Monitor 8" Color with Recorder</b>
VM8C	<b>Color Monitor (8")</b> <i>High resolution (400 lines), sunshade, shock mounted, portable.</i>
VM9	<b>B&amp;W Monitor (9")</b> <i>Sunshade, shock mounted, portable.</i>
CBLE-BNC30	<b>BNC Cable – For each additional 30' cable</b> <i>Use with Platinum or Super CCD, Monitors, etc. 30' cable included with video and monitors.</i>
PVE	<b>Power Video Expander</b> <i>Provides 3 additional 24 volt power outlets and 3 buffered video outputs with 2x gain.</i>
BOB	<b>Breakout Box</b>



35mm camera accessories



## BATTERIES AND CHARGERS

24GC17U	24 volt Block Battery with multi-standard built-in Charger, 17 amp hours
24GC17A	24 volt Block Battery with built-in Charger, 17 amp hours
26LA10	26 volt LA Battery with built-in Charger, 10 amp hours
24LA10	24 volt LA Battery with built-in Charger, 10 amp hours
B4C	24 volt Belt Battery with built-in Charger, 10 amp hours
24LA12	24 volt Miniblock Battery with built-in Charger, 12 amp hours
B23/24C	12/24 volt Belt Battery with built-in Charger, 4 amp hours
B28C	28 volt Belt Battery with built-in Charger, 4 amp hours

*Cold weather influences the performance of certain batteries. Please consult your Panavision representative.*

## FOCUS, ZOOM AND T-STOPS

<b>RDC</b>	<b>Remote Digital Controller</b>
MFZ	Millennium Digital Link FTZSAC Controller
FIZC	Preston Focus Iris and Zoom Controller <i>Video type zoom control and interface box.</i>
FTZC	FTZSAC
RFTC	Remote Focus and T-Stop
RMC	Remote Motor Controller
MFFGB	Modular Follow Focus
MFFRD	Modular Follow Focus Right Angle Adapter <i>(Available on request)</i>
MFF2SK	Modular Follow Focus Two-Speed Knob — <i>Added on to the modular follow focus; allows a choice of either "high speed" or normal speed focus ratio</i>
MFFRM	Modular Follow Focus Remote Motor <i>Added on to the modular follow focus, allows remote focus. (Requires FTZSAC or RFTR)</i>
SRM	Separate Remote Motor <i>Versatile digital motor—can be used as focus, T-stop and/or zoom on all Panavision cameras.</i>
FFX6	Follow Focus Extension Cable 6"
FFX	Follow Focus Extension 12"
TSCU	Universal T-Stop Changer
ZCH, PZCH	Zoom Control Holder
ZC	Zoom Control
SZC	Super Zoom Control <i>Microforce style, includes attachment for pan handle or fluid heads.</i>
PZC	Panabar Zoom Control



# 35mm Accessories

## GRIPS AND HANDLES

HHGA2	Light Weight Hand held Grip Assembly
HHGA	Hand held Accessories
HHGZC	Hand held Grip Zoom Control
LHXA	Adjustable Left Hand Grip Extension
RHGE	Adjustable Right Hand Grip Extension
HHPCH2	Hand held Panaclear Handle 2
PCLAHP	Panaclear Auxiliary Carrying Handle
HHPCH	Hand held Panaclear Handle

## HEADS

PH-S	Super Panahead
PH	Panahead Geared Head
PHDTP	Panahead Geared Head Dual Tilt Plate ( <i>simplifies extreme tilts</i> )
CLH	Cartoni Cam BDA Swing Head
WSH	Weaver Steadman Head
WSRAM	Weaver Steadman Roll Axis Module
OHU	O'Connor Head Ultimate
SH9	Sachtler Studio 9+9
SHS80	Sachtler Studio 80 Fluid Head
RHF7	Ronford Seven Fluid Head
C40H	Cartoni Fluid Head
C40DH	Cartoni Dutch Angle Fluid Head
DSW	Dutch Swing Head

## MAGAZINES

MM10	1000' Millennium Lightweight Composite Magazine
MXL4	400' Millennium Lightweight MGNSM Magazine
MM4	400' Millennium Lightweight Composite Magazine
MXL2	200' Millennium Lightweight MGNSM Magazine
M20	2000' Panaflex Magazine
PM10	1000' Platinum Magazine with Digital Display
M10	1000' Panaflex Magazine
PRM10	1000' Platinum Reversing Magazine
M5	500' Panaflex Magazine
M5-PG	500' Panaflex Lightweight Magazine
M2	250' Panaflex Magazine
STM10	1000' Panastar High Speed Magazine
STRM10	1000' Panastar Reversing Magazine
STM5	500' Panastar High Speed Magazine
M2HC, M5HC, M10HC, MM10HC	Magazine Heater Cover: 250', 500', 1000'
M300	1000' Arri 435 Magazine
M120	400' Arri 435 Magazine ( <i>reversing</i> )
M120S	400' Arri 435 Steadicam Magazine ( <i>reversing</i> )
M120SL	400' SL Cine 435 Steadicam Magazine

## MOUNTS AND AUTO BASES

PUAB	<b>Panavision Universal Autobase</b> — <i>No tools required for quick setup. Accepts all Panaflex cameras including the Panaflex 16 and 65mm hand held cameras with a variety of magazine configurations. Also accepts Pan-Arri III.</i>
PTATE	<b>Panamate 360 degree Rotating Camera Mount</b> <i>Rotates camera around the lens axis. Used in combination with a Panahead to produce 3 separate axes of movement (pan, tilt, rotation).</i>
PRK	<b>Panarock II</b> <i>(near-ground level pan and tilt device)</i>
PTLT	<b>Panatilt/Balance Plate</b>
PCOB	<b>O'Connor Sliding Base</b> <i>(available in 10", 15½", 24" lengths)</i>
PUB	<b>Utility Base</b>
RBQ	<b>Ronford Quick Release Plate</b>

*For additional Heads, Mounts and Remote Products, please refer to the Remote Systems section of the catalog.*

## MATTE BOXES AND SUNSHADES

MMBSP 6.6	<b>Modular Matte Box Swing Away/Pivoting</b> <i>Includes 1 geared 4-stage filter module and 4 filter frames</i>
FA2	
MMB4	<b>Geared 4-Stage Module</b>
MMB2	<b>Geared 2-Stage Module</b>
MMBP	<b>Geared Pola Module</b>
MMBFC-S, -L	<b>Flexible Cable with Handle 18" or 24"</b>
FA2	
FA	<b>Filter Step Down Tray (6x6 to 4x5)</b>
MMB4	<b>Geared 4-Stage Module</b>
MMB2	<b>Geared 2-Stage Module</b>
MMBP	<b>Geared Pola Module</b>
MMBFC-S, -L	<b>Flexible Cable with Handle 18" or 24"</b>
MBSA6.6x3	<b>Grad Matte Box 6.6 x 6.6 (3 Slot)</b> <i>Swing away. Adjustable filter in shot. Accepts MFFRM for remote use.</i>
MBS6.6X3	<b>Grad Matte Box 6.6 x 6.6 (3 Slot)</b> <i>Swing away</i>
MBPC	<b>Clip-on Matte Box with rotating pola</b>
MBP	<b>Clip-on Matte Box</b>
PGMB	<b>Panaflex Clip-on Matte Box</b>
ECMB	<b>"E" Series Clip-on Matte Box</b>
FSE	<b>Sunshade Extension</b>
MBF	<b>Sunshade Extension</b>
MB	<b>Panaflex Matte Box: Standard/Wide Angle hand held</b>
MBT4X5	<b>Tiltable Matte Box 4 x 5</b>
SD	<b>Sliding Diopter Matte Box with 5 Split Diopters</b>
ARF	<b>Anti-Reflection Filter Holder</b> <i>Securely holds one, two or three 4x5 filters, eliminating reflections between filters.</i>

# 35mm Accessories

## PANA-ACCESSORIES

PT2	<b>Panatape II Ultrasonic Ranging System</b>
PFL	<b>Panaflasher</b> – <i>Pre- and post-negative flashing in camera. Works with every lens and filter combination. No external power required.</i>
VCF	<b>Varicon/Flasher</b>
PSC2	<b>Precision Speed Control for Panaflex and Pan-Arri III Cameras</b> <i>All speeds crystal controlled from 4 fps to 34 fps.</i>
EPL	<b>Eyepiece Leveler</b>
FFD	<b>Flange Focal Depth Set</b>
FP	<b>Gel Punch</b>
FPM	<b>Millennium Filter Punch</b>
FFP	<b>Filter Frame Gel Punch</b>
GG-X	<b>Panaglow Ground Glass</b> ( <i>1 complimentary with each camera</i> )
GGMC	<b>Ground Glass Matte Cutter</b>
UDF	<b>Ultimate Director's Finder</b>
UDF-V	<b>Ultimate Director's Finder with Video</b>
HV2	<b>Panafinder II</b> ( <i>straight finder with built-in deanamorphoser</i> )
HV2-V	<b>Panafinder II with Video</b>
HV2-AV	<b>Panafinder II with Video and Deanamorphoser</b>
HV	<b>Panafinder</b> ( <i>L-shaped</i> )
MHV	<b>Mitchell Hand Viewer</b>
PFXRC	<b>Rain or Dust Cover</b>
PLL	<b>Panalens Lite</b> ( <i>camera assistant working light</i> )
CWP	<b>Clear Weather Protector</b>
PWP-L,PWP-S	<b>Weather Protector</b> ( <i>long or short</i> )
MWP	<b>Weather Protector</b> ( <i>Millennium</i> )
WB-II	<b>Water Box</b> ( <i>able to submerge 16" below water's surface</i> )
WB	<b>Water Box</b> ( <i>able to submerge 10" below water's surface</i> )
PVE	<b>Power Video Expander</b> <i>Provides 3 additional 24 volt power outlets and 3 buffered video outputs with 2x gain</i>

## PANAVISION/LIGHTSTORM VIDEO PRODUCTS

VS	<b>Panavision/Lightstorm VID-Stick</b> <i>Hand held stabilized viewfinder with eye viewing and transmitted color video. Includes deanamorphoser, frameline generator and low mode switching. Accepts most Panavision lenses, but especially versatile using Panavision Lightweight Zoom lenses.</i>
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## TRIPODS

RST, RST-B	<b>Ronford Tripod</b> ( <i>Standard or Baby</i> )
BAZ	<b>Bazooka</b>
MHH	<b>Mitchell Hi-Hat/Lo-Hat</b>
PMS, RBS	<b>Spreader</b>

## REMOTE PRODUCTS

<b>MFZ</b>	<b>Millennium FTZSAC Controller</b> <i>Digital link version of FTZSAC. Remote focus, T-stop, zoom, speed and aperture control. RS232 serial control, wired and wireless.</i>
<b>FTZC</b>	<b>FTZSAC</b> <i>Remote Focus, T-stop, Zoom, Speed Aperture Control All digital system also incorporates camera on/off. Operates hardwired or wireless.</i>
<b>FIZC</b>	<b>Preston Focus Iris and Zoom Controller</b> <i>Video type zoom control and interface box.</i>
<b>SSCB2</b>	<b>Smart Shutter Control II</b> <i>Automatically compensates shutter angle and/or T-stop (requires T-stop motor) as operator changes camera frame rate. Also allows you to change shutter angle remotely. For use on Platinum, Panaflex, and Panastar cameras.</i>
<b>RFTC</b>	<b>Remote Focus and T-Stop</b> <i>State-of-the-art remote focus. Communicates all digital information allowing remote focus, T-stop, camera on/off, either hardwired or wireless.</i>
<b>RSB</b>	<b>Digital Remote Switch (Tacho)</b> <i>On/off remote switch with digital display of film speed and film footage.</i>
<b>RSB-A</b>	<b>Digital Remote Switch (ARRI III)</b> <i>On/off remote switch with digital display of film speed and film footage.</i>
<b>PRS</b>	<b>Remote Switch Cable</b>
<b>RS</b>	<b>Remote Shutter Lock</b>
<b>CBLE-24E, 36E</b>	<b>24 volt, 36 volt Extension Cable</b>

*For additional Heads, Mounts and Remote Products, please refer to the Remote Systems section of the catalog.*

## SPRAY DEFLECTORS

		<i>Widest Spherical Lens</i>	<i>Widest Anamorphic Lens</i>
<b>UCSD</b>	<b>Ultra Compact Spray Deflector</b>	<b>Primo Spherical 17.5mm</b>	<b>"C" Series 35mm</b>
<b>HSDMB</b>	<b>Hydroflex Spray Deflector</b>	<b>Primo Spherical 14.5mm</b>	<b>"C" Series 30mm</b>
<b>HHSD</b>	<b>Hand Held Spray Deflector</b>	<b>Primo Spherical 21mm</b>	<b>"C" Series 30mm</b>
<b>CSDF</b>	<b>Compact Spray Deflector</b>	<b>Primo Spherical 14.5mm</b> <i>(only covers 1.85 and TV)</i>	<b>"C" Series 30mm</b>

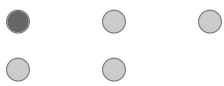
## SYNC BOXES

For all Panaflex Cameras

<b>PNPS</b>	<b>Phaseable Synchronizer</b> <i>Incorporates all the capabilities of the Video and Film, Field to Frame, and Camera to Projector synchronizers.</i>
<b>FVSC</b>	<b>Film/Video Synchronizer Control (Barton Box)</b>
<b>TLS</b>	<b>Time Lapse Synchronizer 1/4 FPS to 640 FPS</b>



filters



## SCHNEIDER B+W/PANAVISION PROPRIETARY FILTERS

These Panavision proprietary filters are specially manufactured by Schneider to meet our strictest specifications. Types include: Correction, 85s, NDs (ND.3 *all the way to ND2.4*), Polas, 85 Pola Combos, Enhancers, Diffusion, Corals, and Grads.

	"One Stop" Pola new to Panavision — Available in 138mm and 40.5mm
4X5	4 x 5.650 Filters
4.5	4.5" Round Filters
4.5 DI	4.5" Round Diopters — Full and Split Filters <i>+.5, +1, +2, +3</i>
138	138mm Filters
138 DI	138mm Diopters — Full and Split Filters <i>+.5, +1, +2, +3</i>
6X6	6.6 x 6.6 Filters

## GENERAL TYPES

Types include: Correction (85s, 81s, 80s, 82s), NDs, Polas, Enhancers, Diffusion, Contrast, Flats, Corals, Colored Grads, and Stars.

4X5	4 x 5.650 Filters
4.5	4.5" Round Filters
4.5 DI	4.5" Round Diopters — Full and Split Filters <i>+.25, +.5, +1, +1.5, +2, +3</i>
138	138mm Filters
138 DI	138mm Diopters — Full and Split Filters <i>+.25, +.5, +1, +1.5, +2, +3</i>
6X6	6.6 x 6.6 Filters
ARF	Anti-Reflection Filter Holder <i>Securely holds one or two 4x5 filters, eliminating reflections between filters</i>
FA2	
FA	Filter Step Down Tray — 6 x 6 to 4 x 5

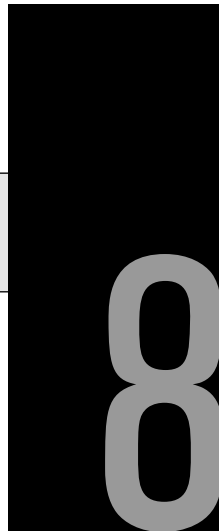
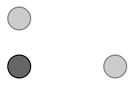
## MISCELLANEOUS FILTERS

S/Filter	"Small Filter" for Panavision/Frazier Lens System and Cokin Matte Box <i>includes all filter types for sizes listed: 40.5mm, 48mm, 72mm, 77mm — Series 9 and P Series</i>
L/Filter	"Large Filter" includes all filter types for sizes listed — <i>12 x 12, 9 x 9, 6.5 x 8.5, 5.5 x 6.5, 6" round</i>
SDMB	Sliding Diffusion with Matte Box ( <i>manual</i> )
NET/FRAMES	4 x 5 Net Frames, 6 x 6 Net Frames
SD	Sliding Diopter Matte Box with 5 Split Diopters

Any additional types of filters may be obtained through Panavision. Please inquire with the Filter Department representative. Please note that the Schneider B+W/Panavision filters are only available for rental.



35mm optics



# 35mm Spherical Lenses

## PRIMO PRIME LENSES

SL10	10mm	T1.9		2'
SL14.5	14.5mm	T1.9		2'
SL17.5	17.5mm	T1.9		2'
SL21	21mm	T1.9		2'
SL27	27mm	T1.9		2'
SL35	35mm	T1.9		2'
SL40	40mm	T1.9		2'
SL50	50mm	T1.9		2'
SL75	75mm	T1.9		3'
SL100	100mm	T1.9		3'
SL150	150mm	T1.9		5¾'
SL150+1.4XE	210mm	T2.8		5'10"
<i>(150mm Primo Prime + 1.4x Primo Extender)</i>				
1.4XE	1.4x Primo Extender (minus 1 full stop)			
SLWA	Wide Angle Adapter <i>(low distortion)</i> <i>Attaches to Primo Close Focus 14.5mm lens giving 11.5mm focal length</i>			
2XFHL6.6	Dual Filter Holder 6.6 for 10mm Primo Prime			

## PRIMO "CLASSIC SERIES" PRIME LENSES

SL21-M	21mm	T1.9	Close Focus (1:5)	9½"
SL24-MS	24mm	T1.7	Close Focus (1:4) with soft effect	10"
SL27-M	27mm	T1.9	Close Focus (1:2.5)	9½"
SL30-MS	30mm	T1.7	Close Focus (1:3.5) with soft effect	10"
SL35-M	35mm	T1.9	Close Focus (1:3)	11"
SL50-M	50mm	T1.9	Close Focus (1:1.25)	11"
SL65-MS	65mm	T1.7	Close Focus (1:1.8) with soft effect	13½"
SL85-MS	85mm	T1.7	Close Focus (1:3) with soft effect	16½"
SL100-M	100mm	T1.9	Close Focus (1:2)	16"
SL125-MS	125mm	T1.8	Close Focus (1:2.5) with soft effect	25½"

## PRIMO CLOSE FOCUS LENSES

SL14.5-CF	14.5mm	T1.9	Close Focus (1:6½) (Object to front of lens = 1½")	8¼"
SL17.5-CF	17.5mm	T1.9	Close Focus (1:4½) (Object to front of lens = 1½")	7½"
SL21-CF	21mm	T1.9	Close Focus (1:5) (Object to front of lens = 2")	9½"
SL27-CF	27mm	T1.9	Close Focus (1:3) (Object to front of lens = 2")	9½"
SL35-CF	35mm	T1.9	Close Focus (1:3) (Object to front of lens = 2")	11"



# 35mm Spherical Lenses

## PRIMO ZOOM LENSES

Color and performance matched to Primo prime lenses.

SLZ	17.5–75mm	T2.3	4:1 Primo Zoom	2¾'
SLZ+1.4XE	24.5–105mm	T3.2	<i>(Primo Zoom + 1.4x Primo Extender)</i>	2'10"
SLZ11	24–275mm	T2.8	11:1 Primo Zoom	4'
SLZ11+1.4XE	34–385mm	T4	<i>(11:1 Primo Zoom + 1.4x Primo Extender)</i>	4'1"
SLZ3	135–420mm	T2.8	3:1 Primo Zoom	8½'
SLZ3+1.4XE	190–595mm	T4	<i>(3:1 Primo Zoom + 1.4x Primo Extender)</i>	8'7"

## PRIMO MACRO ZOOM LENS

Compact and relatively lightweight, this wide angle Primo zoom lens, with continuous focusing to macro magnifications, utilizes two aspherically surfaced exotic glass elements, making it the most advanced Panavision Primo zoom lens in the series. Color and performance matched to Primo prime and zoom lenses, the Primo macro zoom also covers Super 35 format over its entire zoom range and down to 5" close focus (object to front of lens). Will not accept extenders.

PMZ	14.5–50mm	T2.2	Close Focus, 1:3 at 50mm, object to front of lens = 2½" <i>Includes MBPMZ Primo Macro Zoom Clip on Matte Box</i>	15"
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## LIGHTWEIGHT ZOOM LENSES

LWZ3	85–200mm	T4	<b>Lightweight Zoom III</b> <i>Lens weight without motor 2½ lbs; with motor 3½ lbs. Length at infinity focus 6½", diameter 4". 60mm front filter capability. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	4'
LWZ2	17.5–34mm	T2.8	<b>Lightweight Zoom II</b> <i>Lens weight less than 1½ lbs. Length 4", diameter 3.5". Stackable 77mm front filter capability. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	1½'
LWZ	27–68mm	T2.8	<b>Lightweight Zoom I</b> <i>Lens weight without motor 2 lbs.; with motor 3 lbs. Length 5", diameter 3.5". Comes with 5 complimentary 72mm filters. Will not accept extenders. Ideal for use with XL, Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	3'

## MACRO LENSES

Color and performance matched to Primo prime lenses.

SM50-MF	50mm	T1.4	Close Focus Macro (1:2)	9"
SM90-MF	90mm	T2	Close Focus Super Macro (1:0.7)	13½"
SM90-MF+2XE	180mm	T4	Close Focus Super Macro (1:0.35)	14¼"
SM100-MF	100mm	T2	Close Focus Macro (1:2.5)	18"
SM100-MF+1.4XE	140mm	T2.8	(100mm Macro + 1.4x Primo Extender) (1:1.8)	19"
SM200-MF	200mm	T4	Close Focus Macro (1:2)	27"
SM200-MF+1.4XE	280mm	T5.6	(200mm Macro + 1.4x Primo Extender) (1:1.4)	28"

## SLANT FOCUS LENSES

Bellowless lenses that allow tilting of the focus plane in any direction before or during shooting. There is no change in perspective and the effect is similar to a split diopter but with no line to hide and continuous variable power.

SR24-SF	24mm	T3.5	Slant Focus with Close Focus	12"
SR24-SF+1.4XE	34mm	T4.9	(24mm Slant Focus + 1.4x Primo Extender)	13"
SR45-SF	45mm	T2.8	Slant Focus with Close Focus	16"
SR45-SF+1.4XE	63mm	T4	(45mm Slant Focus + 1.4x Primo Extender)	17"

# 35mm Spherical Lenses

## ULTRA SPEED "Z" SERIES MKII LENSES

Zeiss optics, Panavision mechanics.

USZ14	14mm	T1.9	2'
USZ24	24mm	T1.3	2'
USZ29	29mm	T1.3	2'
USZ35	35mm	T1.4	2'
USZ50	50mm	T1.4	2'
USZ85	85mm	T1.4	2'
USZ100	100mm	T2	3'
USZ135	135mm	T2	5'
USZ180	180mm	T2.8	5'
USZ180+1.4XE	252mm	T4 (USZ180 + 1.4x Primo Extender)	5'1"

## SUPER SPEED "Z" SERIES MKII LENSES

Zeiss optics, Panavision mechanics.

SZ14	14mm	T1.9	2'
SZ24	24mm	T1.9	2'
SZ29	29mm	T1.9	2'
SZ35	35mm	T1.9	2'
SZ50	50mm	T1.9	2'
SZ85	85mm	T1.9	2½'
SZ100	100mm	T2	3'
SZ135	135mm	T2	5'
SZ180	180mm	T2	5'
SZ180+1.4XE	252mm	T2.8 (SZ180 + 1.4x Primo Extender)	5'1"

# 35mm Spherical Lenses

## ULTRA SPEED MKII LENSES

SS14	14mm	T1.9		2'
SS17	17mm	T1.9		2'
SS20	20mm	T1.9		2½'
SS24	24mm	T1.3		2'
SS29	29mm	T1.3		2¼'
US35	35mm	T1.3		2'
SS40	40mm	T1.3		2'
US50	50mm	T1		2'
SS75	75mm	T1.6		2'
SS100	100mm	T1.6		4'
SS125	125mm	T1.6		3½'
SS150	150mm	T1.5		5'

## SUPER SPEED MKII LENSES

SP24-T2	24mm	T2		2'
SS28	28mm	T2		2'
SS35	35mm	T1.6		2'
SS50	50mm	T1.4		2 – 2¼'
SS55	55mm	T1.1		2½'

## NORMAL SPEED MKII LENSES

SPN8	8mm	T2.8	Nikon Fisheye <i>(for Pan-Arri and PFX-X only)</i>	1'
SP8D	8mm	T2.8	Distortion Lens	14"
SP9.8	9.8mm	T2.8	<i>(for Pan-Arri only)</i>	2'
SP16	16mm	T2.8		1¼'
SP20	20mm	T3 or T4		2½'
SP24	24mm	T2.8		2¼'
SP28	28mm	T2.8		2'
SP32	32mm	T2.8		2'
SP35	35mm	T2		1¾' – 2'
SP40	40mm	T2		2'
SP50	50mm	T2		2¼' – 2½'
SP75	75mm	T2		2¼' – 2½'
SP100	100mm	T2.4		3½'
SP150	150mm	T2.8		5'

# 35mm Spherical Lenses

## CLOSE FOCUS/MACRO LENSES

SSCF17	17mm	T1.9	Close Focus	10"
SP20-CF	20mm	T4	Close Focus	8"
SP24-CF	24mm	T2.8	Close Focus	8"
SP28-CF	28mm	T2.8	Close Focus	8"
SP35-CF	35mm	T2	Close Focus	8"
MS40	40mm	T2.8	Close Focus Macro (1:2)	
MC60	60mm	T2.8	Close Focus Macro (1:2)	
MS90	90mm	T2.8	Close Focus Macro (1:2)	
MS100	100mm	T2.8	Close Focus Macro (1:2)	

## TELEPHOTO LENSES

SPC200	200mm	T2	Canon ( <i>fully Panavised</i> )	8'
SPC200+1.4XE	280mm	T2.8	<i>(Panavised Canon 200mm + 1.4x Primo Extender)</i>	8'1"
SPN200	200mm	T2	Nikon	9'
SPN200+1.4XE	280mm	T2.8	<i>(Nikon 200mm + 1.4x Primo Extender)</i>	9'1"
SS200	200mm	T2	Panavision Ultra Speed	6'
SS300	300mm	T2.8	Panavision Ultra Speed	15'
SPC300	300mm	T2.8	Canon	10'
SPN300	300mm	T2	Nikon ( <i>fully Panavised</i> )	11'
SPN300+1.4XE	420mm	T2.8	<i>(Panavised Nikon 300mm + 1.4x Primo Extender)</i>	11'
SP400	400mm	T4	Panavision	15'
SPC400	400mm	T2.8	Canon	15'
SPC400+1.4XE	560mm	T4	<i>(Canon 400mm + 1.4x Primo Extender)</i>	15'
SP500	500mm	T4	Panavision	23'
SPC600+1.4XE	840mm	T6.3	<i>(Canon 600mm + 1.4x Primo Extender)</i>	27'
SPC800	800mm	T5.6	Canon	45'
SPC800+1.4XE	1120mm	T8	<i>(Canon 800mm + 1.4x Primo Extender)</i>	45'

# 35mm Spherical Lenses

## ZOOM LENSES

All Panavision zoom lenses are equipped with a silent high torque motor and include zoom control and cables.

PMZ	14.5–50mm	T2.2	Close Focus 1:3 at 50mm, object to front of lens = 2½"	15"
SLZ	17.5–75mm	T2.3	Primo Zoom	2¾'
SLZ11	24–275mm	T2.8	11:1 Primo Zoom	4'
SLZ3	135–420mm	T2.8	3:1 Primo Zoom	8½'
LWZ3	85–200mm	T4	Lightweight Zoom III <i>Lens weight without motor 2½lbs; with motor 3½ lbs. Length at infinity focus 6½", diameter 4". 60mm front filter capability. Will not accept extenders. Ideal for use with XL Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	4'
LWZ2	17.5–34mm	T2.8	Lightweight Zoom II <i>Lens weight less than 1½ lbs. Length 4", diameter 3.5". Stackable 77mm front filter capability. Will not accept extenders. Ideal for use with XL Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	1½'
LWZ	27–68mm	T2.8	Lightweight Zoom I <i>Lens weight without motor 2 lbs; with motor 3 lbs. Length 5", diameter 3.5". Comes with 5 complimentary 72mm filters. Will not accept extenders. Ideal for use with XL Lightweight Panaflex, VID-Stick, hand held use with FTZSAC.</i>	3'
Z5S	20–100mm	T3.1	Cooke/Panavision	2½'
Z10S/ZC10	25–250mm	T4	Super Panazoom (Cooke)	5½'
Z6S	20–120mm	T3	Angenieux/Panavision	3½'
VFL4X	150–600mm	T6.3	Canon/Panavision Zoom	10'

## ZOOM LENS ACCESSORIES

SZC	Super Zoom Control <i>Microforce style, includes attachment for pan handle or fluid heads.</i>
PZC	Panabar Zoom Control
ZC	Zoom Control
XZH	Zoom Heater Cover

A variety of printer lenses for virtually any combination of formats are available. Panavision builds many special, usually customer requested, lens setups every year. Please inquire about these services.

## PANAVISION/FRAZIER LENS SYSTEM

Extremely versatile lens system with built-in deep field capability, panning, dutch head movements, image rotation/derotation (as per Panatate®), low mode positioning for ground shots. System allows macro objects and distant objects (even at infinity) to be simultaneously held in focus for unusual shots. Internally takes up to three 40.5 type glass filters (or gels) or one manually rotatable 40.5 type glass pola filter. Also, image quality matches Panavision Primo prime and zoom lenses for intercutting of shots. Covers Super 35mm format. Maximum aperture is T7.1 with any lens used.

FLS	Panavision/Frazier Lens System
FLST17	17mm (gives 12mm)
FLSN20	20mm (gives 14mm)
FLSC24-SP	24mm Slant Focus Perspective Control (gives 17mm)
FLSN28	28mm (gives 20mm)
FLSN35-P	35mm Perspective Control (gives 25mm)
FLSC45-SP	45mm Slant Focus Perspective Control (gives 32mm)
FLSN50	50mm (gives 35mm)
MFFGB	Modular Follow Focus Gear Box
FLSIRM	Frazier Lens System Image Rotation Motor
S/FILTER	Small Filters
FLSC14	14mm (gives 9.9mm)
FLSN85	85mm (gives 60mm)
FLSN105	105mm (gives 75mm)
FLSN135	135mm (gives 95mm)
FLSS15-F	15mm Sigma Fisheye

## PANAVISION/CENTURY SWING SHIFT SYSTEM

Bellows lens system that allows for a variety of extreme lens movements including: swing, shift, tilt, rise and fall, macro focusing and beyond.

PVB	Swing Shift System <i>Main unit for all Panaflex cameras, Pan-Arri III and Mitchell MKII</i>
PVB14	14mm T2.8 Lens
PVB18	18mm T2.8 Lens
PVB24	24mm T3.5 Lens
PVB28	28mm T2.8 Lens
PVB35	35mm T2.8 Lens
PVB45	45mm T2.8 Lens
PVB55	55mm T2.8 Lens
PVB75	75mm T2.8 Lens
PVB90	90mm T2.8 Lens
PVB105	105mm T2.4 Lens
PVB135	135mm T4.5 Lens
PVB150	150mm T3.5 Lens

*The Panavision/Century Swing Shift System is supplied with complimentary accessories—please inquire.*

# 35mm Spherical Lenses—Special Purpose

## PORTRAIT LENSES

The portrait lenses provide a soft focus look around the edges of the frame, leaving the center of the frame sharp.

SS14-P	14mm	T1.9	Portrait Lens	2'
SP16-P	16mm	T2.8	Portrait Lens	1¾'
SP20-P	20mm	T3.0	Portrait Lens	2'
SP24-P	24mm	T2.8	Portrait Lens	2¼'
USZ35-P	35mm	T1.4	Zeiss Portrait Lens	2'
SS35-P	35mm	T1.6	Portrait Lens	2'
SP35-P	35mm	T2	Portrait Lens	2'
SS50-P	50mm	T1.4	Portrait Lens	2¼'
SP50-P	50mm	T2	Portrait Lens	2½'
SP75-P	75mm	T2	Portrait Lens	2½'
SZ85-P	85mm	T1.9	Portrait Lens	2'
Z5S-P	20-100mm	T3.1	Portrait Zoom Lens	2½'

## MACRO LENSES

SM50-MF	50mm	T1.4	Close Focus Macro (1:2)	9"
SM90-MF	90mm	T2	Close Focus Super Macro (1:0.7)	14¾"
SM90-MF+2XE	180mm	T4	Close Focus Super Macro (1:0.35)	15½"
SM100-MF	100mm	T2	Close Focus Macro (1:2.5)	18"
SM100-MF+1.4XE	140mm	T2.8	(100mm Macro + 1.4x Primo-Extender) (1:1.8)	19"
SM200-MF	200mm	T4	Close Focus Macro (1:2)	27"
SM200-MF+1.4XE	280mm	T5.6	(200mm Macro + 1.4x Primo-Extender) (1:1.4)	28"

## SLANT FOCUS LENSES

Bellowless lenses that allow tilting of the focus plane in any direction before or during shooting. There is no change in perspective and the effect is similar to a split diopter but with no line to hide and continuous variable power.

SR24-SF	24mm	T3.5	Slant Focus with Close Focus	12"
SR24-SF+1.4XE	34mm	T4.9	(24mm Slant Focus + 1.4x Primo Extender)	13"
SR45-SF	45mm	T2.8	Slant Focus with Close Focus	16"
SR45-SF+1.4XE	63mm	T4	(45mm Slant Focus + 1.4x Primo Extender)	17"

## SPECIALTY LENSES

Panavision builds many customer-requested (spherical and anamorphic) lenses—primes, zooms, projection/printer optics, etc. Also, special purpose one-of-a-kind lenses can be designed and developed by Panavision for specific customer applications/requirements. We pride ourselves in providing this service for over 40 years—please inquire.



## SPECIAL PURPOSE LENSES AND OPTICS ACCESSORIES

SF6	<b>6mm T2.9 Fisheye Lens—close focus to 1½'</b> <i>Covers Super 35 format and fits on all Panaflex and other 35mm cameras. Internally accepts one 40.5 type glass filter, and up to two gels or one manually rotatable 40.5 type glass pola filter. 180°+ field of view.</i>
SPN6	<b>6mm T3.5 Nikon Fisheye Lens—close focus to 10½"</b> <i>Covers TV safe action only (.713 x .535). Internally accepts one 40.5 glass filter. 220° field of view.</i>
IP3	<b>Inclining Prism</b> <i>¼ Stop Loss; Widest Spherical—21mm; Widest Anamorphic—35mm "C" Series</i>
DIS	<b>Distortion Attachment</b>
1.4XE	<b>1.4x Primo Extender (1-stop loss)</b>
2XE	<b>2x Lens Extender (2-stop loss)</b>
OPP	<b>Optex Periscope (T4.2 with Panavision mount)</b>
CPPS2T	<b>Century Precision Periscope with Panavision Mount</b> <i>T4 with T2.8 taking lens, limited availability</i>
RZM10	<b>10:1 Revolving Zoom Mesmerizer</b>
RZM	<b>Revolving Zoom Mesmerizer</b> <i>T4.8 Cooke 5-1 Zoom Lens with motorized rotating anamorphic element</i>
CPP	<b>Century Precision Periscope</b>
RDM	<b>Mesmerizer Lens (rotating Anamorphoser, limited availability)</b>
SLWA	<b>Wide Angle Adapter (low distortion)</b> <i>Attaches to Primo Close Focus 14.5mm lens giving 11.5mm focal length</i>
WFA	<b>Century Fisheye Adapter</b> <i>Attaches to selected 35mm and 16mm Prime lenses for severe distortion</i>

*A variety of printer lenses for virtually any combination of formats are available. Panavision builds many special, usually customer requested, lens setups every year. Please inquire about these services.*

# 35mm Anamorphic Lenses

## PRIMO "Close focus" SERIES Lenses

Color matched lenses providing excellent image quality over an extended focus range.

AL35-CF	35mm	T2	Mark II Primo Anamorphic Close Focus Lens	2¾'
AL40-CF	40mm	T2	Mark II Primo Anamorphic Close Focus Lens	2¾'
AL50-CF	50mm	T2	Mark II Primo Anamorphic Close Focus Lens	2¾'
AL75-CF	75mm	T2	Mark II Primo Anamorphic Close Focus Lens	2½'
AL100-CF	100mm	T2	Mark II Primo Anamorphic Close Focus Lens	2½'

## PRIMO SERIES LENSES

Color matched lenses providing excellent image quality.

AL35	35mm	T2	Regular Primo Anamorphic Lens	3½'
AL40	40mm	T2	Regular Primo Anamorphic Lens	3½'
AL50	50mm	T2	Regular Primo Anamorphic Lens	3½'
AL75	75mm	T2	Regular Primo Anamorphic Lens	4½'
AL100	100mm	T2	Regular Primo Anamorphic Lens	4½'
1.4XE			1.4x Primo Extender ( <i>minus 1 full stop</i> )	

## "E" SERIES LENSES

Partly color matched lenses providing very good image quality.

E28	28mm	T2.3	( <i>requires special matte box</i> )	5'
E35	35mm	T2		5'
E40	40mm	T2		5'
E50	50mm	T2		5'
E75	75mm	T2		5'
E85	85mm	T2		5'
E100	100mm	T2.3		5'
E135	135mm	T2.8		3¾'
E180	180mm	T2.8		4½'
E180+1.4XE	252mm	T4	( <i>180mm E Series + 1.4x Primo Extender</i> )	4'7"

"E" Series color matched for imaging consistency.

## "C" SERIES LENSES

Compact lenses providing good image quality.

C20	20mm	T2.8		3½'
C30	30mm	T3		4'
C35-2.3	35mm	T2.3		2¾'
C40	40mm	T2.8		2½'
C50	50mm	T2.3		2½'
C60	60mm	T2.8		3½'
C75	75mm	T2.5		4½'
C100	100mm	T2.8		4½'
C150	150mm	T3.5		5'
C180	180mm	T2.8		7'
C180+1.4XE	252mm	T4	( <i>180mm C Series + 1.4x Primo Extender</i> )	7'1"

# 35mm Anamorphic Lenses

## SUPER (HIGH) SPEED LENSES

HS24	24mm	T1.6	(with 6.6 x 6.6 Filter Holder)	6'
HS35	35mm	T1.4		4½'
HS50T1.1	50mm	T1.1		4'
HS50	50mm	T1.4		4'
HS55	55mm	T1.4		4'
HS75	75mm	T1.8		4½'
HS100	100mm	T1.8		4½' – 5'

## TELEPHOTO LENSES

C360	360mm	T4		5½'
AN400	400mm	T3.5	Nikon	9'
CN400	400mm	T3	Canon	8'
AN600	600mm	T4	Nikon	13'
CN600	600mm	T4.5	Canon	27'
C800	800mm	T5.6	Canon	15'
C1000	1000mm	T5.6		22'
CN1200	1200mm	T8	Canon	27'
1000/2000	2000mm	T9		30'

## ZOOM LENSES

All Panavision zoom lenses are equipped with a silent high torque motor and include zoom control and cables.

AWZ2	35-80mm	T2.8	Wide Angle Anamorphic Zoom	3'
ALZ11	48-550mm	T4.5	11:1 Primo Anamorphic Zoom	4'1"
ALZ3	270-840mm	T4.5	3:1 Primo Anamorphic Zoom	8'7"
Z5A	40-200mm	T4.5	Super Panazoom (Cooke)	2½'
Z10A	50-500mm	T5.6	Super Panazoom (Cooke)	5½'

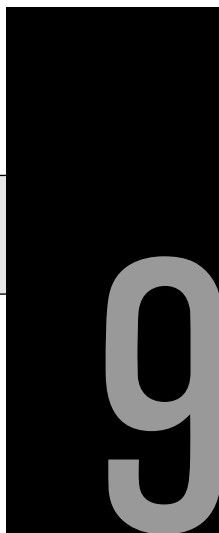
## SPECIAL PURPOSE LENSES

C40-P	40mm	T2.8	Anamorphic Portrait	3¼'
C100-P	100mm	T2.8	Anamorphic Portrait	4'
AR90-SF	90mm	T4.3	Anamorphic Slant Focus with Close Focus	17"
AP	25mm	T2.5	Wide Angle Distortion	5'
MAP55	55mm	T2.5	Close Focus	10"
MT	100mm	T2.8	Insert or Process	4½'
MAP150	150mm	T3.2	Macro Panatar (1:1.5)	17"
MAP200	200mm	T3.2	Macro Panatar (1:2)	18"
MAP250	250mm	T3.2	Macro Panatar (1:2)	29"

A variety of printer lenses for virtually any combination of formats are available. Panavision builds many special, usually customer requested, lens setups every year. Please inquire about these services.



16mm camera system



# Panaflex-16mm Camera System

PFXEL

Studio quality camera with all the sophistication of the Panaflex System. Extremely quiet. Crystal controlled at all speeds from 4 to 50 fps. Dual pin registered, "in-shot" shutter adjustment 50–200 degrees, left eye/right eye viewing, short and long eyepieces. Available in Super 16 or Regular 16 formats.

	<b>2</b>	<b>24 volt Batteries</b>
ELEPX	1	Extension Eyepiece
ELEPP	1	Standard Eyepiece
MB	1	4 x 5 Studio Matte Box
GG	1	Ground Glass (Panaglow)
MFF16GB	1	Modular Follow Focus
FFX	1	Follow Focus Extension
FXHL	1	Offset Handle
ELCM/PCOB	1	Sliding Base Plate
IRISROD	3	Pairs of Iris Rods
CBLE-24H/P	2	24 volt Heater/Power Cables
EPL	1	Eyepiece Leveler
ELSR	1	Shoulder Rest
ELRHG	1	Right Hand Grip
LHG	1	Left Hand Grip
ELRB-V	1	Iris Rod Bracket–Video
CH	1	Carrying Handle

## VIDEO

ELCV	<b>Panavision Color Video Assist</b> <i>Flicker free at 24 and 30 fps, auto color balance, normal and boost gain, ND filter, wide sensitivity range.</i>
ELCCD-C	<b>Super CCD B&amp;W Video Assist</b>

## MAGAZINES

ELM4	400' Magazine
ELM12	1200' Magazine
ELMHC4	400' Heater Barney

## PANAFLEX-16 ACCESSORIES

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ELWP-L, ELWP-S Dust/Moisture Cover (*long or short*)

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ELUB 16mm Utility Base

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PUAB Panavision Universal Autobase

---

EPCLAH Panaclear Auxiliary Carrying Handle

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MFF2SK Modular Follow Focus Two-Speed Knob —

*Added on to the modular follow focus,*

*allows a choice of either "high speed" or normal speed focus ratio.*

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*Many 35mm Panaflex System accessories are compatible with the Panaflex-16 Camera System.*

16mm equipment rental, including Arri SR3 and Aaton XTR-Prod camera systems, is supplied by Panavision Hollywood and other regional U.S. offices.

## 16MM PRIME LENSES

16SZ8	8mm	T2.3	Zeiss Optics/Panavision Mechanics	2'
16SZ9.5	9.5mm	T1.3	Zeiss Optics (Super Speed)/Panavision Mechanics	1½'
16SZ12	*12mm	T1.3	Zeiss Optics (Super Speed)/Panavision Mechanics	2'
16SZ16	*16mm	T1.3	Zeiss Optics (Super Speed)/Panavision Mechanics	2'
16SZ25	*25mm	T1.3	Zeiss Optics (Super Speed)/Panavision Mechanics	1¾'
16SZ35	*35mm	T2	Panavision Mechanics	2'
16SZ50	*50mm	T2	Zeiss Optics/Panavision Mechanics	2'
16SZ85	*85mm	T2	Panavision Mechanics	4'
16SZ100	*100mm	T2	Zeiss Optics/Panavision Mechanics	4'
16SZ135	*135mm	T2	Zeiss Optics/Panavision Mechanics	4½'

## 16MM ZOOM LENSES

All Panavision zoom lenses are equipped with a silent high torque motor and include zoom control and cables.

16ZM8X	*8–64mm	T2.4	Canon/Panavision	2'
16ZM12X	*11.5–138mm	T2.5	Canon/Panavision	3½'
16ZM12AX	*11.5–138mm	T2.3	Angenieux/Panavision	5'
AZ11.5	7–81mm	T2.4	Angenieux HR Zoom	2'
CAZ11	*11–165mm	T2.5	Canon/Panavision	3½'
16ZM5.5X	9–50mm	T2.5	Cooke/Panavision	1½'
16ZM10X	10–100mm	T2	Zeiss/Panavision	5'
16ZM3X	10–30mm	T1.6	Cooke/Panavision	2'4"
16ZM5X	*10.4–52mm	T2.8	Cooke/Panavision	1½'

\* Denotes lenses which cover Super-16 format.



65mm camera systems



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# 65mm PFX System 65 Studio Camera System

65 SPFX

65mm studio motion picture camera. 26 db quiet microprocessor controlling shutter 50-180 degrees, full-fitting dual registration pins with guide blocks on one side of film, crystal controlled speeds 4 to 32 fps forward only, bright color corrected viewfinder and Panaglow green or red.

<b>3 24 volt Batteries</b>		
65M	1	Panaflex Motor 4-32 fps <i>All speeds crystal capability – 24 volt power</i>
65SPLI	1	System 65 Flexlight
FSE/MBF	1	Sunshade Extension
65MB	1	Matte Box
GG	1	Ground Glass
65IRB	1	Iris Rod Bracket
IRISROD	3	Pairs of Iris Rods
FR	1	4.5 Filter Ring
65LPC	1	Lens Port Cover
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-24H	2	Camera Heater Cables
<hr/>		
65SM10	1000' Magazine	
65SM5	500' Magazine	
ACV	Panavision Color Video Assist with 2 Power Cables <i>Flicker free at 24 and 30 fps, auto color balance, normal and boost gain, ND filter, wide sensitivity range.</i>	
65C5	65mm Color 5 Video	
PH-S	Super Panahead Geared Head	
65LCDM5	On-board Video Monitor 5" LCD	
RSB	Digital Remote Switch ( <i>Tacho</i> )	
FTZC	FTZSAC <i>Remote Focus, T-stop, Zoom, Speed Aperture Control</i> <i>All digital system also incorporates camera on/off. Operates hardwired or wireless.</i>	
24GC27A	Battery with Built-in Charger	
65SFF	65mm Studio Super Follow Focus	
65SFSE	65mm Studio Sunshade Extension	
65SHV	65mm Studio Panafinder	
65SPLI	65mm Studio Flex Light	
65SUB	65mm Studio Utility Base	
65SWP-L, 65SWP-S	65mm Studio Weather Protector ( <i>long or short</i> )	

# 65mm HR Spinning Mirror Reflex Camera System

65HSSM

4 to 72 fps, crystal controlled, fixed 170 degree shutter, full fitting registration pins, can do time lapse or time exposure, bright fixed viewfinder plus video assist. (Please note: 36 volt batteries are required to run 4 to 72 fps; 24 volt batteries are required to run 4 to 48 fps.)

	<b>3</b>	<b>24 volt Batteries</b>
65M5	2	500' Magazines
65SSFF	1	Follow Focus Unit
65MB	1	Matte Box
GG	1	Ground Glass
CBLE-24H/P	2	24 volt Heater/Power Cables

# 65mm High Speed Hand Held Pellicle Reflex Camera System

65HSHR

The cinematographer's choice when maneuverability and high speed (4 to 72 fps) with reflex viewing are required. 170 degrees fixed shutter angle. Convertible to Steadicam mode.

	<b>2</b>	<b>24 volt Batteries</b>
65M	1	Panaflex Motor 4-72 fps <i>All speeds crystal capability – 36 volt power</i>
65M5	2	500' Magazines
65FF1R	1	Follow Focus Unit–1 Rod
65MB	1	Matte Box
GG	1	Ground Glass
65PM	2	Partial Mirrors
65IRB	1	Iris Rod Bracket
IRISROD	3	Pairs of Iris Rods (6", 9", 12")
FR	1	Series 9 Filter Ring or 4½" Ring
65LPC	1	Lens Port Cover
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-24H	2	Camera Heater Cables

# 65mm Hand Held Pellicle Reflex Camera System

65HR

A lightweight, versatile, reflex camera intended for normal speed (4 to 32 fps) hand held filming. The Panavision HHR is frequently used for plates and effects work. 170 degrees fixed shutter angle. Convertible to Steadicam mode.

<b>2 24 volt Batteries</b>		
65M	1	Panaflex Motor 5-30 fps <i>24 and 30 fps crystal capability – 24 volt power</i>
65M5	2	500' Magazines
65FF1R	1	65mm Follow Focus One Rod
65MB	1	Matte Box
GG	2	Ground Glasses
65PM	2	Partial Mirrors
65IRB	1	Iris Rod Bracket
IRISROD	3	Pairs of Iris Rods (6", 9", 12")
FR	1	Series 9 Filter Ring
65LPC	1	Lens Port Cover
CBLE-24H/P	2	24 volt Heater/Power Cables
CBLE-24H	2	Camera Heater Cables

## ACCESSORIES

65HV2	Director's Viewfinder
65SHV	65mm Panafinder
65VF	65mm Mitchell Viewfinder
65FF1R	65mm Follow Focus One Rod
65FP	65mm Frame Punch
65LHR	Left Hand Grip—HR Camera
65PMSC	65mm Preston Motor Speed Control
65EPI	65mm Medium Eyepiece
65MMRC-L, 65MMRC-S	65mm Rain Cover ( <i>long or short</i> )
65IRB	65mm Iris Rod Bracket
65HHDB	65mm Camera Mount ( <i>hand held dovetail base</i> )
65LS	65mm Lens Shade
6510MA	65mm HR 1000' Magazine Adapter
65FFD	65mm Flange Focal Depth Set
65CCD	Video Assist B&W ( <i>for 65HR Camera</i> )
65C5	65mm Color 5 Video
65FLX	65mm Frameliner C5
65CCD-CP	Eyepiece Color Video Assist ( <i>for Pellicle Camera only</i> )
65LCDM5	On-Board Video Monitor 5" LCD
RSB	Digital Remote Switch ( <i>Tacho</i> ) <i>On/off remote switch with digital display of film speed and film footage.</i>

## BATTERIES AND CHARGERS

24GC17A	24 volt Block Battery with built-in Charger, 17 amp hours
24LA10	24 volt LA Battery with built-in Charger, 10 amp hours
B4C	24 volt Belt Battery with built-in Charger
24LA12	24 volt Miniblock Battery with built-in Charger, 12 amp hours
38NC4	38 volt Nicad 4 amp Battery

*Cold weather influences the performance of certain batteries. Please consult your Panavision representative.*

# 65mm Camera Accessories

## MAGAZINES

65MF10	65mm 1000' Flanged Magazine
65M10	65mm 1000' Magazine
65M5	65mm 500' Magazine
65M4	65mm 400' Magazine
65M2	65mm 250' Magazine
65HC, 65HC5, 65HC4	65mm Magazine Heater Cover (1000', 500', 400')

## TRIPODS

RST, RST-B	Ronford Tripod ( <i>Standard or Baby</i> )
MHH	Mitchell Hi-Hat/Lo-Hat
PMS	Spreader

## System 65 Lenses

Low distortion, wide aperture lenses providing high contrast and resolution with good field illumination.

65S24	24mm	T3.5		1½'
65S35	35mm	T2.8		1½'
65S40	40mm	T2.8		1½'
65S50	50mm	T2		2'
65S75	75mm	T2		2¼'
SL75	75mm	T1.9	Primo	3'
65S100	100mm	T2		2'
SL100	100mm	T1.9	Primo	3'
65S150	150mm	T1.9	Primo	5¾'
SPC200	200mm	T2		8'
65SPZ300	300mm	T2.8	Zeiss	8'
65SPC300	300mm	T2.8	Canon	10'
65SPC400	400mm	T2.8	Canon	12'
65SPC800	800mm	T5.6	Canon	40'
65ZM6X	60–360mm	T6.3	6:1 Zoom	8'
65VFL4X	150–600mm	T6.3	Canon Optics/Panavision Mechanics Zoom	10'
SR45-SF	45mm	T2.8	Slant Focus	16"
65S1.4X		1.4x Primo Extender ( <i>minus 1 full stop</i> )		
65LWZ	35–68mm	T2.8	65mm Lightweight Zoom	3'
65ZM3X	50–150mm	T4.5	65mm Zoom Lens	7'

Some of the above lenses require a mechanical adapter to allow attachment to the System 65 Camera.

## 65mm Spherical Lenses

65SP19	19mm	T4.5	Fisheye	1½'
65MSF24	24mm	T3.5	Fisheye	1'
65MSP55	55mm	T4	Macro	11"
65S35R	35mm	T2.8	Slant Focus with Close Focus	1'
65S45R	45mm	T2.8	Slant Focus with Close Focus	16"