A man and a woman are standing in a forest, looking through binoculars. The woman is on the left, wearing a blue long-sleeved shirt and a black vest, holding the binoculars to her eyes. The man is on the right, wearing a plaid shirt. They are both looking towards the right. The background is a lush green forest with trees and a rocky stream bed.

CELESTRON

SPORT OPTICS 2007

BINOCULARS • SPOTTING SCOPES • TELESCOPES • SKYSCOUT

CONTENTS

CHOOSING A BINOCULAR	3-5
UPCLOSE	6-8
TRAVELER	9
OUTLAND	10
OUTLAND LX	11
ULTIMA DX	12
NOBLE	13
REGAL LX	14
OCEANA	15
SKYMASTER	16
OPTIVIEW	17
VISTAPIX	18-19
CHOOSING A SPOTTING SCOPE	20-21
MINI ZOOM	22
ULTIMA	23
ULTIMA ED	24
MAKSUTOV SPOTTING SCOPES	25
REFRACTOR SPOTTING SCOPES	26
C5 SPOTTING SCOPE	27
VISTAPIX IS70	28
SPECIALTY OPTICS	29-35
POWERSEEKER	30-31
NEXSTAR SLT	32-33
EXPLORASCOPE	34
SKYSCOUT	35

ICON DESIGNATIONS

Look for one or more of the following icons as a quick reference guide for the intended use of each binocular and spotting scope line.



BINOCULAR ACCESSORIES

To maximize the enjoyment of your Celestron sport optics product, we recommend the following accessories. For more information, consult your Authorized Celestron Dealer or visit us at: www.celestron.com.

Binocular Tripod Adapters

These adapters allow you to mount your binocular to a tripod for added stability and convenience.

Model # 93520 (right)
Model # 93512-A (left)



Car Window Mount

View through your spotting scope from the comfort of your vehicle. Spotting scope attaches easily using the quick release mount.

Model # 93602



Photo Tripod

This sturdy aluminum tripod will provide a stable platform for your binocular or spotting scope. Fully adjustable legs and quick release mount.

Model # 93606



Welcome To The World Of Celestron Sport Optics

This catalog introduces you to the extensive selection of sport optics products that has earned Celestron a well-deserved reputation for providing products with optical excellence and outstanding design at an affordable price. Celestron is also recognized as a world leader in the design and manufacturing of high-quality computerized and non-computerized telescopes that are used by all levels of amateur astronomers. In keeping with this reputation, we only offer binoculars and spotting scopes that are manufactured to meet our rigorous and uncompromising standards. Celestron optical instruments deliver excellent resolution and contrast. Our binoculars and spotting scopes combine the highest quality precision optics and the most modern, user-oriented design features to produce visual instruments that perform exquisitely year after year. Celestron sport optics products offer versatility in viewing any subject of interest to you, be it a sporting event, wildlife, bird watching, scenic views in nature, travel, sailing — even the far reaches of the night sky. Inherent in the design of all of these products is our mission to provide the highest quality optical products at a competitive price.

All Celestron Binoculars Are Covered By A NO-FAULT LIFETIME WARRANTY

Parts Of A Binocular



Which Binocular Is Right For You?

Celestron offers binoculars suited to a wide variety of uses including bird watching, boating, camping, hunting, sporting events, concerts, surveillance, astronomy, travel, and more. Whatever your optical needs might be, Celestron has a binocular style and size that's right for you.

Determining which binocular is the best for any particular use or situation depends on variables such as environment, individual preference, activity, and the range of different viewing circumstances in which you will use it.

We encourage you to look through this catalog at the different models, then ask your Celestron dealer for a demonstration. Whichever Celestron binocular you select, you can rest assured that you'll receive the utmost quality and value for your investment.

How To Evaluate Optical Quality

The brilliance and sharpness of the image you see through a particular binocular is determined by a number of different factors. Magnification, optical coatings, and lens diameter are just a few of the factors influencing how a binocular performs.

However, the single most important criteria in performance will always be the quality of the optics. Celestron delivers optical excellence through careful consideration of quality in the glass and lens coatings used, precision manufacturing processes, and uncompromising quality control.

Factors To Keep In Mind When Choosing A Binocular

Magnification

Magnification is the degree to which the object being viewed is enlarged. For example, with a 7x42 binocular, the number 7 represents the "binocular power". A 7-power binocular magnifies an image to seven times the size it would be when viewed by the normal, unaided human eye. The level of power affects the brightness of an image, so the lower the power of a binocular, the brighter the image will be. In general, increasing power will reduce both field of view and eye relief.



1x Unaided Eye



7x

Diameter (Objective Lens)

The objective lenses of binoculars are the larger lenses in the front of the binocular that the light passes through. The diameter of one of these lenses, given in millimeters (mm), will be the second number describing a particular binocular. Hence, a 7x42 binocular has an objective lens diameter of 42mm. The diameter of the lens determines the light gathering ability of the binocular, with the greater light gathering ability of a larger lens translating into greater detail and image brightness. This is especially useful in low light conditions and at night. Doubling the size of the objective lenses quadruples the light gathering ability of the binocular. For instance, a 7x50 binocular has twice the light gathering ability of a 7x35 binocular and four times the light gathering ability of a 7x25 binocular. This might lead you to assume that bigger is better when it comes to the diameter size of the objective lenses, but in reality, the size of the lens must be considered along with exit pupil and intended usage to determine the best binocular for you.

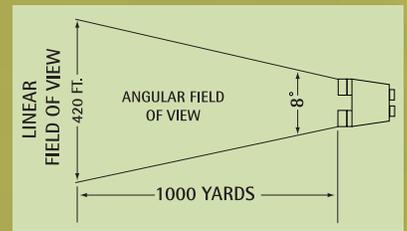
Exit Pupil

The diameter, in millimeters, of the beam of light that leaves the eyepiece of a particular pair of binoculars is the "exit pupil". The larger the exit pupil, the brighter the image obtained will be (except in bright daylight where your eye's pupil shrinks). Having a large exit pupil is advantageous under low light conditions and at night. For astronomical applications, the exit pupil of the binocular should correspond with the amount of dilation of your eye's pupil after it has adapted to the dark. To calculate the exit pupil, divide the size of the objective lens by the magnification of the binocular. For example, the exit pupil of a 7x42 binocular is calculated as $42/7 = 6\text{mm}$.

Factors To Keep In Mind When Choosing A Binocular (continued)

Field of View (FOV)

The size of the area that can be seen while looking through a pair of binoculars is referred to as the field of view. The angular field of view is usually indicated on the outside of the binocular,



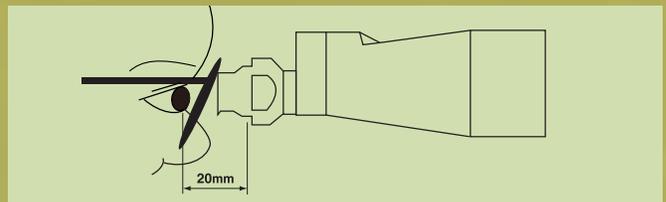
in degrees. The linear field of view refers to the area that can be observed at 1,000 yards, and is expressed in feet. A larger field of view translates to a larger area seen through the binocular. Field of view is related to magnification, with greater magnification creating a smaller field of view. Also a wider field of view generally results in less eye relief. A large field of view is especially desirable in situations where the object viewed is likely to move, or when the user is moving. You can use angular field of view to calculate the approximate linear field of view by multiplying the angular field of view by 52.5. For example, if the angular field of view of a particular binocular is 8 degrees, then the linear field of view will be 420 feet (8×52.5).



Choosing A BINOCULAR

Eye Relief

This refers to the distance, in millimeters, that a binocular can be held from the eye with the full field of view still being comfortably observed. Eyeglass wearers in particular benefit from longer eye relief.



Near Focus

The distance between the binocular and the nearest object you can focus on, while maintaining a good image and sharp focus, defines the near focus of a binocular.

Brightness

A binocular's ability to gather and transmit enough of the available light to give a sufficiently bright and sharp image defines its brightness. The brightness of a binocular also enhances color differentiation in the image observed. R.B.I. (Relative Brightness Index), Twilight Factor and R.L.E. (Relative Light Efficiency) are common indices used in the binocular industry, but are all somewhat flawed in their design and often prove fairly meaningless. Brightness is one criteria to be considered when purchasing binoculars, but is not the most important factor. Brightness is dependent on several factors including objective lens diameter, magnification, the type and quality of the objective lens glass, type of lens coatings and type of prisms used. In general, large objective lenses, low magnification and fully multi-coated lenses are most desirable.

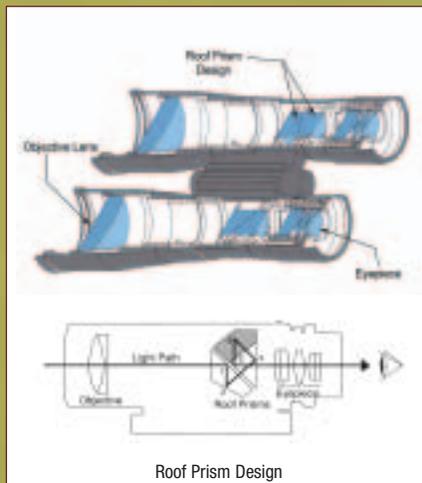
Factors To Keep In Mind When Choosing A Binocular (continued)

Prisms

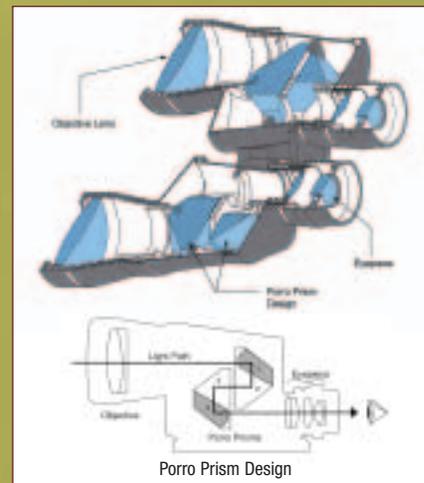
Binocular prisms serve to invert the image and come in one of two basic designs: roof prism or porro prism. By design, roof prisms are more lightweight and compact for portability. Prisms are designated either BK7 (boro-silicate) or BAK-4 (barium crown). Both are economical and highly effective designs. The finer glass in the BAK-4 design is of a higher density (refractive index) and virtually eliminates internal light scattering, producing sharp, well-defined images.

Contrast

Contrast refers to the degree to which both dim and bright objects can be differentiated from each other and from the background of the image. High contrast helps in observing fainter objects and discerning subtle visual details. Contrast is affected by the



Roof Prism Design



Porro Prism Design

Factors To Keep In Mind When Choosing A Binocular (continued)

Focusing

A focusing mechanism allows you to reach sharp focus on objects at different distances. Most binoculars have either a center focus or individual focus mechanism.

Center Focus – This focusing mechanism uses a single wheel to move both eyepieces in and out to achieve focus. However, since a person's vision is slightly different from one eye to the other, center focus binoculars use a diopter adjustment to compensate. The diopter adjustment permits one of the eyepieces (usually the right) to be individually "fine focused" to the needs of each person's eyes.

Individual Focus – Allows for extra-precise focusing adjustments for image sharpness and clarity. Individual focus binoculars allow each eyepiece to be rotated and focused individually, eliminating the need for a diopter adjustment.

Optical Coatings

The optical elements (10 to 18 glass surfaces) of the binocular are coated to reduce internal light loss and glare, which in turn ensures even light transmission, resulting in greater image sharpness and contrast. Choosing a binocular with good lens coatings ensures greater satisfaction with the product you ultimately select. Lens coatings range in quality as listed below from lowest quality to highest quality:

Uncoated – No glass surfaces are coated. Less than 50% of the light is transmitted through the binocular resulting in very low contrast images with a lot of glare making them virtually unusable.

Coated – One or more surfaces are coated. Overall quality is poor.

Fully Coated — All air-to-glass surfaces are coated with a single layer of anti-reflecting magnesium fluoride coating (MgF₂). Throughput transmission is typically close to 80% and more than acceptable for most users.

Multi-Coated – One or more surfaces are coated with multiple layers of a chemical compound and the other surfaces are fully coated. Multi-coatings increase light transmission resulting in brighter and sharper images with higher contrast levels.

Fully Multi-Coated – All air-to-glass surfaces are coated with multiple layers of a chemical compound. Fully multi-coated binoculars maximize throughput light transmission in a range of 90-95%. The result is extremely bright and sharp images with maximum contrast.



Choosing A BINOCULAR

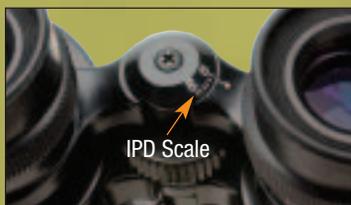
resolution. The finer the resolving power (in general), the better the contrast. High quality optical coatings provide better contrast in an image. The other factors affecting contrast include collimation, air turbulence, objective lens, prism and eyepiece quality.

Resolution

Resolution is the measurement of a binocular's ability to distinguish fine detail and produce a sharp image. Better resolution also delivers more intense color. Resolution is related directly with the size of the objective lenses. Generally, a larger objective lens will deliver more detail to the eye than a smaller objective lens, regardless of the magnification of the binocular. Actual resolution is determined by the quality of the optical components, the type and quality of the optical coatings, atmospheric conditions, collimation (i.e. proper optical alignment), and the visual acuity of the user.

Collimation

Collimation is the alignment of the optical elements of the binocular to the mechanical axis. Good collimation prevents eyestrain, headaches and inferior and double images while improving resolution.



Interpupillary Distance

Since the distance between eyes varies, both eyepieces also need to be adjustable for individual use. Most full size porro prism binoculars are designed with a hinge that allows the user to move the eyepieces closer together or farther apart. This is called "adjusting the interpupillary distance" (IPD).

What Are Phase Coatings?

Phase coatings are a relatively new technology. These coatings are applied to roof prism binoculars only. Phase coatings are coatings applied to correct the phase shift of roof prisms which causes a deterioration of image quality. In the past, even the best roof prism binoculars suffered from a loss in contrast, resolution, and sharpness albeit ever so slight. In roof prisms, light waves reflected off of the prism edges (roof) are phase shifted (1/2 a wavelength of light) differently through each barrel of the binoculars. The phase shifting of the light waves cause a reduction in optical quality. Once phase coatings are applied to the roof prism surfaces, the reflected light off of the roof prisms is phase corrected (similar) through each barrel of the binocular. Thus, maximum resolution can be achieved for the particular aperture size and image sharpness and contrast are greatly enhanced. Celestron's premium Noble and Regal LX Series binoculars are phase coated and fully multi-coated.



Without Phase Coatings



With Phase Coatings

UPCLOSE® COMPACT 6 & 7

Our extremely affordable compact Roof Prism and Porro Prism binoculars. Great for any activity where size and weight may be an issue.

UPCLOSE® 8

Our economically priced full size Porro Prism binoculars. These binoculars will handle your most demanding viewing challenges.

TRAVELER 9

The stylish "go-anywhere" compact binocular. Available in Porro and Roof Prism designs.

OUTLAND® 10

The rugged Outland waterproof series is designed to perform under tough outdoor conditions.

OUTLAND® LX 11

The Outland LX is the high performance version of our popular Outland series. Offering incredible optics in a rugged waterproof design.



BINOCULARS

ULTIMA® DX 12

One of our most respected binoculars. The Porro Prism design offers fully multi-coated optics, quality waterproof construction and value.

NOBLE 13

The Noble Series is a premium quality Roof Prism binocular. Waterproof design and fully multi-coated and phase coated optics are just a couple of features this incredible binocular has to offer.

REGAL® LX 14

Our top-of-the-line premium binoculars provide superior performance at an affordable price when compared to other binoculars in its class.

OCEANA® 15

The Oceana series is specifically designed for marine use. Three feature rich models are available.

SKYMASTER® 16

These large aperture binoculars are ideal for astronomical (sky) viewing or for terrestrial (land) use – especially over long distances.

OPTIVIEW® 17

Reduce reflections and glare while intensifying colors with our OptiView filtered binoculars. Available in two specialized models.

VISTAPIX® 18 & 19

VistaPix gives you the best of both worlds. A high quality binocular and a built-in digital camera.



UpClose 12x25
Model #71134

UpClose® ROOF PRISM



UpClose Field Glasses 4x30
Model #71082



UpClose 8x21
Model #71132



UpClose 10x25
Model #71133



UpClose 16x32
Model #71135



Hide and seek! Small enough to tuck away in a pocket, purse, backpack, or vehicle storage compartment, the UpClose Roof Prism Series from Celestron is perfect for catching that great view at a moment's notice. The UpClose Roof Prism Series has something for everyone whether for action sports, vacationing, nature viewing, wildlife observing or various other activities. They are available in popular sizes and are priced to be extremely affordable. UpClose roof prism models are rubber covered for protection and ease of handling. These binoculars are fully coated to give clear, sharp, high contrast views.

The Celestron UpClose 4x30 Field Glass is a very compact go-anywhere binocular. It's a great choice for children since these binoculars have no prisms which can break or be knocked out of alignment with rough handling. Take them to sporting events, bird watching, nature viewing, golf tournaments, or any other outdoor activities.

UpClose Roof Prism Features:

- Fully coated optics
- Protective rubber covering with embossed logo for firm grip
- Ultra compact design with folding center bridge
- Diopter adjustment for precise focusing
- Water resistant body
- Nylon carrying case
- No-Fault Lifetime Warranty

UpClose Field Glasses Features:

- 4.5° field of view (236' @ 1000 yards)
- Eye relief – 10mm
- Lightweight and portable
- Coated optics
- Weight – 8 oz.
- Water-resistant case included
- No-Fault Lifetime Warranty

UPCLOSE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71082	4x30	Field Glasses	N/A	Coated	N/A	4.5°	236	7.5mm	10mm	18 ft.	8 oz.	No	No Fault
71132	8x21	Roof	BK7	Fully Coated	Water Resistant	7°	367	2.6mm	11mm	7 ft.	7 oz.	No	No Fault
71133	10x25	Roof	BK7	Fully Coated	Water Resistant	5.5°	288	2.5mm	10mm	18 ft.	9 oz.	No	No Fault
71134	12x25	Roof	BK7	Fully Coated	Water Resistant	4.5°	236	2.1mm	10mm	14 ft.	9 oz.	No	No Fault
71135	16x32	Roof	BK7	Fully Coated	Water Resistant	3.7°	194	2.0mm	10mm	25 ft.	11 oz.	No	No Fault

See and be seen! You and your new UpClose silver and black compact porro prism binoculars are sure to get noticed. With style and performance like much more expensive binoculars, the new UpClose Compact Porro Prism Series from Celestron integrates high-quality fully coated BK7 optics into a sleek and lightweight contemporary silver and black high-tech design. These ultra-modern binoculars are perfect for all popular outdoor and indoor activities including travel, sporting events, camping, backpacking, bird watching, and all types of indoor or outdoor entertainment events. The smooth contours and ribbed rubber surfaces provide a secure grip and help to minimize fatigue when holding the binoculars for extended periods of time.



UpClose 10x25
Model #71083

UpClose® PORRO PRISM



UpClose 8x21
Model #71085



UpClose 8-24x25 Zoom
Model #71084



UpClose Compact Porro Prism Features:

- Fully coated optics
- Compact porro prism design
- Lightweight and portable
- Molded rubber grip surfaces
- Diopter adjustment for sharp focus
- Carrying case
- No-Fault Lifetime Warranty

UPCLOSE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71085	8x21	Porro	BK7	Fully Coated	Water Resistant	6.4°	335	2.6mm	11mm	16 ft.	5 oz.	No	No Fault
71083	10x25	Porro	BK7	Fully Coated	Water Resistant	6.5°	340	2.5mm	14mm	16 ft.	11 oz.	No	No Fault
71084	8-24x25	Zoom Porro	BK7	Fully Coated	Water Resistant	4°	209	3.1mm	14mm	23 ft.	13 oz.	No	No Fault

Specifications subject to change without prior notice.



UpClose 12x50
Model #71138

UpClose® PORRO PRISM



UpClose 7x35
Model #71136



UpClose 10x50
Wide Angle
Model #71137



UpClose 10-30x50 Zoom
Model #71140



A binocular for all reasons! From nature to NASCAR®, UpClose binoculars will handle your most demanding viewing challenges. The economically-priced UpClose Porro Prism Series is comprised of four full-size models, including one zoom model. UpClose porro prisms are robust full-size binoculars that feature a large knurled center focus knob for smooth and accurate focusing and a diopter adjustment on the right eyepiece for fine tuning the focus to your individual eyesight requirements. The Zoom model features a conveniently located finger lever for quick, accurate zoom adjustments. Rubber hand grips with finger impressions and embossed logos provide comfort and a secure grip. Most important, UpClose binoculars feature high quality BK7 optics to provide you and your family bright, clear, and sharp views during a variety of outdoor activities like sporting events, bird watching, wildlife viewing, hiking, scenic nature walks, and concerts and live performances to name a few. The UpClose is an ideal choice for an affordable high quality binocular that will provide years of enjoyable use.



UpClose Porro Prism Features:

- Rubber covered
- Fully coated optics
- Diopter adjustment for fine focusing
- Offered in both wide angle and zoom models
- Molded finger impressions and embossed logos for a firm grip
- Water resistant body and nylon carrying case
- Tripod adaptable
- No-Fault Lifetime Warranty

UPCLOSE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71136	7x35	Porro	BK7	Fully-Coated	Weather Resistant	8°	419	5mm	11mm	15ft.	24oz.	Yes	No Fault
71137	10x50	Porro	BK7	Fully-Coated	Weather Resistant	7°	367	5mm	11mm	24ft.	25oz.	Yes	No Fault
71138	12x50	Porro	BK7	Fully-Coated	Weather Resistant	5.2°	272	4.2mm	12mm	26ft.	25oz.	Yes	No Fault
71140	10-30x50	Zoom	Porro	BK7	Fully-Coated	Weather Resistant	4.1°	215	5mm@10x	14mm 27ft.@10x	29oz.	Yes	No Fault

Travel in style! Heading out for a long-awaited vacation or special event? Celestron's Traveler is a streamlined binocular that can be tucked away in a backpack or overnight bag, or within arm's reach in your vehicle's glove box or storage compartment. The Traveler Series is comprised of compact, go-anywhere porro and roof prism binoculars with a stylish hi-tech appearance. All Traveler models feature BAK-4 prisms and multi-coatings for brilliant views with maximum resolution and high contrast. Designed for maximum user comfort, Traveler porro models have a special rubberized champagne gold coating and contrasting black rubber hand grips. The Traveler roof prism models are the ideal choice for those who want a small but powerful and compact palm-sized binocular. Traveler binoculars are perfect for travel, sporting events, concerts and live performances, bird watching, camping, and nature walks. They are the ideal combination of distinctive styling, quality construction and optics, and affordability.



Traveler 8x25 Porro Prism
Wide Angle
Model #71577

Traveler

ROOF/PORRO PRISM



Traveler 8x26 Roof Prism
Model #71575



Traveler 10x26 Roof Prism
Model #71576



Traveler 10x25 Porro Prism
Wide Angle
Model #71578



Traveler 8-24x25 Porro Prism
Zoom
Model #71579

Traveler Series Features:

- Offered in both compact and zoom models
- Rubber coated texture for comfortable grip
- Dent and scratch resistant
- Diopter adjustment for exact focusing
- Modern champagne and black rubber styling
- Water Resistant
- No-Fault Lifetime Warranty



TRAVELER SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR	LINEAR	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD	
						FIELD OF VIEW (FOV)	FOV (ft. @ 1000 yd.)					ADAPTABLE	WARRANTY
71575	8x26	Roof	BAK-4	Multi-Coated	Water Resistant	5.5°	288	3.25mm	10mm	12 ft.	10 oz.	No	No Fault
71576	10x26	Roof	BAK-4	Multi-Coated	Water Resistant	5.8°	304	2.6mm	10mm	10 ft.	10 oz.	No	No Fault
71577	8x25	Porro	BAK-4	Multi-Coated	Water Resistant	8.1°	424	3.1mm	12mm	9 ft.	11 oz.	No	No Fault
71578	10x25	Porro	BAK-4	Multi-Coated	Water Resistant	6.5°	340	2.5mm	10mm	10 ft.	11 oz.	No	No Fault
71579	8-24x25	Zoom Porro	BAK-4	Multi-Coated	Water Resistant	4.5°	236	3.1mm@8x	14mm	9 ft.@8x	13 oz.	No	No Fault



Outland 12x50
Model #71169

Conquer the elements! The Outland Waterproof Series from Celestron is a spectacular value in rugged roof prism binoculars. Designed to perform under tough outdoor conditions, Outlands are perfectly suited to handle demanding outdoor activities like hunting, hiking, camping, skiing, backpacking, or river rafting but equally at home at sporting events or the family picnic. Outland binoculars feature sleek, modern two-color styling with rubber covering for a secure and comfortable grip. The Outland's high-performance optics feature BAK-4 prisms and multi-coatings to ensure high contrast and resolution. All models are waterproof for use in all weather conditions.



Outland[®]

ROOF PRISM



Outland 8x25
Model #71165



Outland 8x42
Model #71167



Outland 10x25
Model #71166



Outland 10x42
Model #71168

Outland Waterproof Series Features:

- Multi-coated optics
- Waterproof and fog proof
- Protective rubber covering
- Twist-up eyecups for quick adjustment for optimum eye relief (full-size models)
- Molded finger impressions for a firm grip in any weather condition
- Moisture resistant neoprene carrying case
- No-Fault Lifetime Warranty



OUTLAND SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR	LINEAR	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
						FIELD OF VIEW (FOV)	FOV (ft. @ 1000 yd.)						
71165	8x25	Roof	BAK-4	Multi-Coated	Waterproof	6.2°	325	3.1mm	17mm	13 ft.	14 oz.	No	No Fault
71166	10x25	Roof	BAK-4	Multi-Coated	Waterproof	5.2°	272	2.5mm	16mm	13 ft.	14 oz.	No	No Fault
71167	8x42	Roof	BAK-4	Multi-Coated	Waterproof	6.0°	314	5.25mm	19mm	15 ft.	24 oz.	Yes	No Fault
71168	10x42	Roof	BAK-4	Multi-Coated	Waterproof	5.2°	272	4.2mm	16mm	15 ft.	24 oz.	Yes	No Fault
71169	12x50	Roof	BAK-4	Multi-Coated	Waterproof	5.2°	272	4.2mm	16mm	15 ft.	31 oz.	Yes	No Fault

Taking it to the next level! The Outland LX Waterproof Series takes this popular series to an even higher performance level. Significant features include fully multi-coated optics, extreme near focus, and a four-element objective lens for ultra sharp focus across the field of view. All Outland LX models are waterproof as well as fog proof.



Outland LX 8x40
Porro Prism
Model #71101



Outland LX 10x50
Porro Prism
Model #71102

Outland[®] LX

ROOF/PORRO PRISM



Outland LX 8x42
Roof Prism
Model #71104



Outland LX 10x42
Roof Prism
Model #71105



Outland LX Waterproof Series Features:

- Fully multi-coated optics
- Nitrogen filled and sealed bodies
- Protective rubber covering
- Extreme near focus
- Four-element objective lens for ultra sharp focus across the field of view
- Multi position twist-up eyecups
- Moisture resistant neoprene carrying case
- No-Fault Lifetime Warranty

OUTLAND LX SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71101	8x40	Porro	BAK-4	Fully Multi-Coated	Waterproof	6.8°	356	5mm	18mm	10 ft.	26oz.	Yes	No Fault
71102	10x50	Porro	BAK-4	Fully Multi-Coated	Waterproof	6°	314	5mm	18mm	13 ft.	29oz.	Yes	No Fault
71103	8x32	Roof	BAK-4	Fully Multi-Coated	Waterproof	7.5°	393	4mm	16mm	6 ft.	18oz.	Yes	No Fault
71104	8x42	Roof	BAK-4	Fully Multi-Coated	Waterproof	7.4°	388	5.3mm	18mm	6 ft.	23oz.	Yes	No Fault
71105	10x42	Roof	BAK-4	Fully Multi-Coated	Waterproof	6.5°	340	4.2mm	15mm	6 ft.	23oz.	Yes	No Fault

Specifications subject to change without prior notice.



Ultima DX 10x50
Model #72021

Ultima® DX

PORRO PRISM



Ultima DX 8x32
Model #72020



Ultima DX 8x56
Model #72022



Ultima DX 9x63
Model #72023



Seeing is believing! Celestron's Ultima DX Series is one of our most well respected binoculars. Combining superb optics, quality construction, and affordability, the newly-designed Ultima DX Series is an even better value in superbly crafted porro prism binoculars for the outdoor enthusiast. Whether you are a serious bird watcher who demands a binocular that is lightweight, comfortable and easy to use, and provides precise, sharp, clear, bright images, or an outdoor enthusiast who relies on durability and resistance to the elements, the Ultima DX is your perfect choice. The Ultima DX Series features new design improvements such as a waterproof body, shock-resistant rubber covering, and twist-up eyecups. They provide superb image quality with BAK-4 prisms and fully multi-coated optics. Ultima DX binoculars are super lightweight for their aperture size and all have long eye relief for comfortable viewing. Their excellent depth of field provides a good overview without the need for constant refocusing. All models are excellent for long distance viewing whether for action sports, nature and wildlife viewing, or for astronomical observation.



Ultima DX Series Features:

- Waterproof – Nitrogen filled and sealed bodies
- Shock resistant rubber covering for secure grip
- Twist-up rubber eyecups
- Fully multi-coated optics
- Suited for terrestrial and astronomical use
- Diopter adjustment for sharp focusing
- Soft carrying case
- Tripod adaptable
- Large center focus knob for easy focusing
- No-Fault Lifetime Warranty

ULTIMA DX SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72020	8x32	Porro	BAK-4	Fully Multi-Coated	Waterproof	8.2°	429	4mm	16mm	10 ft.	30 oz.	Yes	No Fault
72021	10x50	Porro	BAK-4	Fully Multi-Coated	Waterproof	6.5°	340	5mm	19mm	23 ft.	35 oz.	Yes	No Fault
72022	8x56	Porro	BAK-4	Fully Multi-Coated	Waterproof	5.8°	304	7mm	18mm	25 ft.	38 oz.	Yes	No Fault
72023	9x63	Porro	BAK-4	Fully Multi-Coated	Waterproof	5°	262	7mm	17mm	35 ft.	44 oz.	Yes	No Fault

A revealing look at the beauties of nature! The magnificent Noble Series from Celestron is one of the best values in a premium quality roof prism binocular available today. When you hold and view through a Noble, you'll be immediately impressed by its solid compact design, its smooth precision focus adjustments, and the clarity and fidelity of its fully multi-coated and phase coated optics (See Page 5 for a description of Phase Coatings). In short, the Noble takes the viewing experience to a breathtaking new level of enjoyment. There is a Noble size and model for the serious bird watcher, the avid hunter as well as the serious sports enthusiast. All models are rubber covered and fully waterproof. All feature extreme close focus performance – the 8x32 as close as 5 feet!



Noble 10x50
Model #71206

Noble

ROOF PRISM



Noble 8x32
Model #71204



Noble 8x42
Model #71205



Noble 10x28
Model #71208



Noble 10x42
Model #71207

Noble Series Features:

- Incredible near focus for avid bird watchers
- Fully multi-coated and phase coated optics
- Nitrogen filled and completely waterproof
- Available in compact roof prism design
- Protective rubber covering with ribbed exterior for firm grip
- Long eye relief ideal for eyeglass and sunglass wearers
- Twist-up eyecups for quick adjustment for optimum eye relief
- Soft carrying case
- No-Fault Lifetime Warranty



NOBLE SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71208	10x28	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	5°	262	2.8mm	15mm	8 ft.	14 oz.	No	No Fault
71204	8x32	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	7.5°	393	4mm	20mm	5 ft.	19 oz.	Yes	No Fault
71205	8x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6.5°	340	5.3mm	20mm	8 ft.	23 oz.	Yes	No Fault
71207	10x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6°	314	4.2mm	16mm	8 ft.	24 oz.	Yes	No Fault
71206	10x50	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	5°	262	5mm	20mm	9 ft.	27 oz.	Yes	No Fault



Regal LX 10x42
Model #72014

The best just got better! The Regal LX Series is Celestron's top-of-the-line premium binocular series. Revered by serious birders and outdoor enthusiasts, the Regal Series has traditionally maintained a long-standing reputation for providing superior performance at an affordable price when compared to much more expensive binocular brands. The new Regal LX models now raise the bar even higher. Regals have always been admired for their exquisite precision-crafted optics. The new Regal LX feature BAK-4 prisms and are fully multi-coated and phase coated (See Page 5 for a description of Phase Coatings). This next-generation Regal Series also features design refinements that enhance their performance and enjoyment even more. These include a super high reflectivity coating on the prism surface, continuous spectrum high transmission lens coating, and an aspheric eyepiece lens. The Regal LX optics are protected by an easy-grip rubber covered body with subtle contours for handling and holding comfort. The center focus knob, right eyepiece diopter adjustment, and adjustable eyecups ensure precision focusing for use with or without eyeglasses.



Regal[®] LX

ROOF PRISM



Regal LX 8x42
Model #72013

Regal LX Series Features:

- Incredible near focus for avid bird watchers
- Fully multi-coated and phase coated optics
- Nitrogen-filled and completely waterproof
- Aspheric eyepiece lens for pinpoint images across the entire field of view
- Super high reflectivity coating on the prism surface for brighter daytime and nighttime images
- Continuous spectrum high transmission lens coating to ensure natural color balance across the entire visible spectrum
- Soft carrying case
- No-Fault Lifetime Warranty



ULTIMA DX SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72013	8x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6.5°	340	5.3mm	20mm	6 ft.	25 oz.	Yes	No Fault
72014	10x42	Roof	BAK-4	Fully Multi-Coated & Phase Coated	Waterproof	6°	314	4.2mm	16mm	6 ft.	25 oz.	Yes	No Fault

Specifications subject to change without prior notice.

Your ship has come in! The Oceana Series is the perfect binocular choice for your next marine adventure. Oceana porro prism waterproof binoculars are available in three rugged feature-rich models that offer a choice of center focus, traditional individual eyepiece focus, or a versatile model with integral compass and reticle. All Oceana models are rubber covered for handling comfort and for protection from the elements. High performance BAK-4 prisms and multi-coatings produce views with high contrast, optimum clarity, and resolution. Each Oceana model has a large 50mm objective lens to offer maximum image brightness even in low light conditions, like dusk and dawn. For additional convenience, each model features attached objective lens protective caps.



The Oceana Model 71189 IF/RC features a rangefinder scale with backlit compass.



Oceana 7x50IF/RC (Individual Focus/Reticle Compass) Model #71189



Oceana 7x50CF (Center Focus) Model #71187

Oceana 7x50IF (Individual Focus) Model #71188

Oceana® PORRO PRISM



Model #71187 – 7x50CF Features:

- Smooth center focus wheel
- Easy-to-grip, large objective diopter ring for smooth and more precise focusing
- Attached objective caps
- Completely waterproof – dry nitrogen charged and sealed with internal O-rings to prevent internal fogging - unaffected by climate and temperature changes
- Tripod adapter fitting for tripod mounting
- No-Fault Lifetime Warranty

Model #71188 – 7x50IF Features:

- Completely waterproof – dry nitrogen charged and sealed with internal O-rings to prevent internal fogging - unaffected by climate and temperature changes
- Individual eyepiece focus with diopter scale for quick and accurate focusing
- Excellent depth of field for minimal focus adjustments
- Nautical style padded canvas case and straps
- Attached objective caps
- Tripod adapter fitting for tripod mounting
- No-Fault Lifetime Warranty

Model #71189 – 7x50IF/RC Features:

- Backlit illuminated liquid dampened magnetic compass; excellent navigational tool for land or sea
- Horizontal and vertical etched reticle to help determine relative size of objects
- Rangefinding dial calculates actual object distance or size
- Completely waterproof – dry nitrogen charged and sealed with internal O-rings to prevent internal fogging - unaffected by climate and temperature changes
- Individual eyepiece focus with diopter scale for quick and accurate focusing
- Excellent depth of field for minimal focus adjustments
- Nautical style padded canvas case and straps
- Attached objective caps
- Tripod adapter fitting for tripod mounting
- No-Fault Lifetime Warranty



OCEANA SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71187	7x50CF	Porro	BAK-4	Multi-Coated	Waterproof	7°	367	7.1mm	24mm	25 ft.	40 oz.	Yes	No Fault
71188	7x50IF	Porro	BAK-4	Multi-Coated	Waterproof	7°	367	7.1mm	26mm	18 ft.	35 oz.	Yes	No Fault
71189	7x50 IF/RC	Porro	BAK-4	Multi-Coated	Waterproof	7°	367	7.1mm	26mm	18 ft.	38 oz.	Yes	No Fault



SkyMaster 25x100
Model #71017

SkyMaster® PORRO PRISM

Things are definitely looking up! Celestron's SkyMaster Series of large aperture binoculars are a phenomenal value for high performance binoculars ideal for astronomical viewing or for terrestrial (land) use, especially over long distances. SkyMaster models feature high quality BAK-4 prisms and multi-coated optics for enhanced contrast. Celestron has designed and engineered the larger SkyMaster models to meet the special demands of extended astronomical or terrestrial viewing sessions. For maximum stability and secure optical alignment, the 80mm and 100mm SkyMaster models feature enhanced structural reinforcement to the main binocular body. As an additional convenience, the 80mm and 100mm SkyMaster models also include an integral super rigid photo tripod adapter. The SkyMaster Series binoculars are built to provide years of magnificent views of the world around you and the heavens above.



SkyMaster 12x60
Model #71007



SkyMaster 15x70
Model #71009



SkyMaster 20x80
Model #71018



Model #71017
25x100 and
Model #71018
20x80 include a
deluxe padded soft
carrying case.



Model #71007
12x60 and Model
#71009 15x70 include
a tripod adapter.



The Moon: photo courtesy of Damian Peach



SkyMaster Series Features:

- Waterproof (100mm) and water-resistant (80mm, 70mm, 60mm)
- Multi-coated optics
- High quality BAK-4 prisms
- Large aperture perfect for low light conditions and stargazing
- Integrated tripod adapter rod (80mm & 100mm)
- Long eye relief ideal for eyeglass wearers
- Diopter adjustment for fine focusing
- No-Fault Lifetime Warranty



SKYMASTER SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
71007	12x60	Porro	BAK-4	Multi-Coated	Water Resistant	5.7°	298	5mm	18mm	40 ft.	44 oz.	Included	No Fault
71009	15x70	Porro	BAK-4	Multi-Coated	Water Resistant	4.4°	230	4.7mm	18mm	43 ft.	48 oz.	Included	No Fault
71018	20x80	Porro	BAK-4	Multi-Coated	Water Resistant	3.2°	168	4mm	17mm	80 ft.	94 oz.	Built-in	No Fault
71017	25x100	Porro	BAK-4	Multi-Coated	Waterproof	3°	157	4mm	15mm	80 ft.	140 oz.	Built-in	No Fault

OptiView Polarizer! Reduce reflections and glare, deepen the blue sky, intensify colors and penetrate haze with Celestron's OptiView filtered binocular. OptiView Polarizing binoculars have integrated drop-down polarizing filters designed to block out unwanted glare and reflected light. OptiView binoculars are particularly useful for viewing outdoors over water and snow, or indoors for looking through glass or highly reflective areas – all without affecting the color of the object being observed.

Scattered light from the Sun becomes polarized when reflected off of glass, water or even moisture particles in our atmosphere. Using a polarizer filters out all of this unwanted light and reduces the affect of reflected polarized light (glare) in the earth's atmosphere.



Comet Linear: photo courtesy of Sebastian Voltmer



OptiView LPR! Celestron OptiView LPR binoculars have built-in light pollution reduction (LPR) filters designed to selectively reduce the transmission of certain wavelengths of light, specifically those produced by artificial light (see chart). This includes mercury, and both high and low pressure sodium vapor lights common in most city street lights. In addition, they block unwanted natural light caused by neutral oxygen emission in our atmosphere (i.e. sky glow). As a result, OptiView LPR binoculars darken the background sky, making deep-sky observation of nebulae, star clusters and even galaxies possible from urban areas.

While blocking unwanted light, OptiView LPR binoculars permit the transmission of more desirable wavelengths including hydrogen alpha, hydrogen beta, doubly ionized oxygen and ionized nitrogen. This will improve your views of emission nebulae. Some examples of objects that will show improved contrast are: the Orion Nebula, the Andromeda Galaxy and the Lagoon Nebula.

Celestron OptiView LPR Filters are made of high quality, flat, polished optical glass with over 40 layers of coating. OptiView optics are also protected with a broadband anti-reflection coating that will prevent ghosting and improve image contrast.



OptiView 10x50 Polarizer
Model #72101
OptiView 10x50 LPR
Model #72102

Convenient thumb wheels rotate filters into place.

OptiView®

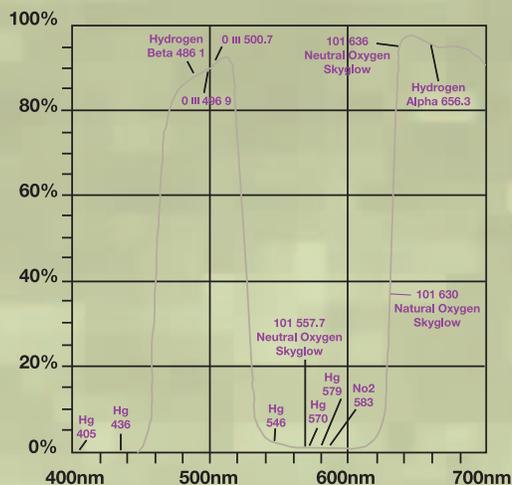
PORRO PRISM



Without polarizing filter.



Polarizing filter reduces glare off water, deepens blue of sky, increases the contrast between sky and clouds.



OPTIVIEW SPECIFICATIONS

MODEL	SIZE	TYPE	PRISMS	COATING	WATER RESISTANT	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72101	10x50	Polarizer	Porro	BK7 Fully-Coated	Water Resistant	7°	367	5mm	13mm	26 ft.	30 oz.	Yes	No Fault
72102	10x50	LPR	Porro	BK7 Fully-Coated	Water Resistant	7°	367	5mm	13mm	26 ft.	30 oz.	Yes	No Fault

Specifications subject to change without prior notice.

See it, save it, print it, send it, and replay it with the versatile VistaPix® Digital Camera/Binocular.

Celestron's VistaPix binocular/digital camera gives you the best of both worlds! VistaPix is a high-quality binocular for clear, sharp, bright views of the outdoors and a versatile digital camera – all in one! VistaPix is all you need to view the world around you and save those memorable moments to share with others. VistaPix images can be stored using its internal mass storage until you're ready to download them to your PC. Once downloaded, the fun begins. With VistaPix Photo Express SE software, you can crop, re-size, manipulate color and much more. You can even record and play back videos! VistaPix gives you the tools to add that creative touch.

All VistaPix models include a 2-year warranty.

View and manipulate images on your PC.

VistaPix Photo Express SE Software lets you organize and manipulate your images. Mass storage capability allows you to view your images in Windows® Explorer and "copy and paste" them directly to your PC's hard drive. There's no need to install drivers for most versions of Windows.

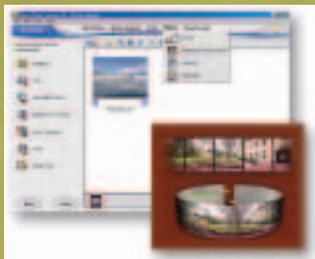


Photo Express SE software is easy to use and highly intuitive. You can crop and manipulate images and even create 360° panoramas!

What you see through the VistaPix binoculars is what the VistaPix digital camera photographs.

- VistaPix captures the image at the same magnification level as seen through the binoculars (see example below).
- LCD models features 8x Zoom PLUS 4x Digital Zoom. The LCD can digitally zoom in on an object up to 4 times closer than seen through the binocular (Models 72214 & 72215 only) – that's 32x zoom magnification!
- PLUS... all VistaPix models can record continuous video!



View images on your TV at up to 8x.*
* Models 72214 and 72215 only with supplied cables.

View and manipulate images on your PC or laptop.

Print out images quickly and easily.

3.1MP Resolution ▶

- 1.5" color LCD screen
- Easy-to-locate camera function buttons
- Center focus knob for binoculars
- 16MB flash memory
- Removable SD memory card slot
- USB port

Celestron VistaPix® models come with a variety of user-friendly features and are available in two color choices.



VistaPix 8x22
0.3MP Champagne Gold
Model #72204



VistaPix 8x22
0.3MP Hunter Green
Model #72217



VistaPix 8x22 Compact
3.1MP Champagne Gold
w/ FM Radio & 8x Camera Lens
Model #72218



VistaPix 8x32
2MP Champagne Gold
Model #72216



VistaPix 8x32
3.1MP with LCD
Champagne Gold
Model #72214



VistaPix 8x32
3.1MP with LCD
Hunter Green
Model #72215

VISTAPIX SPECIFICATIONS

BINOCULAR					WATER RESISTANT	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EXIT PUPIL	EYE RELIEF	NEAR FOCUS	WEIGHT	TRIPOD ADAPTABLE	WARRANTY
72204	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	11mm	16 ft.	9 oz.	Yes	2 Year
72217	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	11mm	16 ft.	9 oz.	Yes	2 Year
72218	8x22	Roof	BK7	Fully Coated	Yes	7°	368	2.8mm	10mm	16 ft.	11 oz.	No	2 Year
72216	8x32	Roof	BAK-4	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	13 oz.	Yes	2 Year
72214	8x32	Roof	BK7	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	23 oz.	Yes	2 Year
72215	8x32	Roof	BK7	Multi-Coated	Yes	5.6°	294	4mm	12.5mm	16 ft.	23 oz.	Yes	2 Year

CAMERA		DIGITAL RESOLUTION	DIGITAL ZOOM	LCD	MEMORY	FIELD OF VIEW	NEAR FOCUS	TV OUT	# IMAGES HI-RES	# IMAGES LOW-RES	SELF TIMER	VIDEO (approx.)	BATTERIES REQUIRED
72204	CMOS	0.3MP (640x480)	N/A	N/A	8MB SDRAM	7.5°x5.6°	33 ft.	N/A	100	350	10 Sec.	2 min.	2-AAA
72217	CMOS	0.3MP (640x480)	N/A	N/A	8MB SDRAM	7.5°x5.6°	33 ft.	N/A	100	350	10 Sec.	2 min.	2-AAA
72218	CMOS	3.1MP (2048x1536)	6x	1.5"	16MB Flash & SD Card	5.4°	10'@Scenic	N/A	30	312	10 sec.	3 min.	2-AAA
72216	CMOS	2.0MP (1600x1200)	N/A	N/A	8MB SDRAM & SD Card	7.3°x9.1°	49 ft.	N/A	8	20	10 Sec.	2-3 min.	2-AAA
72214	CMOS	3.1MP (2048x1536)	4x	1.5"	32MB Flash & SD Card	7.3°x9.1°	49 ft.	PAL	40	130	10 Sec.	10 min.	4-AAA
72215	CMOS	3.1MP (2048x1536)	4x	1.5"	32MB Flash & SD Card	7.3°x9.1°	49 ft.	PAL	40	130	10 Sec.	10 min.	4-AAA

Specifications subject to change without prior notice.

Here are the more important criteria that you may wish to consider when selecting a spotting scope.

Coatings

Optical coatings determine the throughput transmission of a spotting scope. The better the quality of the lens coatings, the brighter the image will be and the higher the image's contrast. Fully multi-coated lenses are the best quality you can choose.

Extra Low Dispersion Glass Optics (ED)

Several models of Celestron's premium spotting scopes feature Extra Low Dispersion Glass which provides excellent color correction and razor sharp images for serious nature and bird watchers. It also virtually eliminates chromatic aberration.



Choosing A SPOTTING SCOPE

Construction

Both mechanical and optical construction are important. Alignment of the optical elements (collimation) is critical for achieving optimal results. All Celestron spotting scopes are collimated at the factory to ensure comfortable viewing, even during extended viewing sessions.

Diameter Of Objective Lens

A spotting scope is a telescope that produces an upright image. The major function of a spotting scope, like all telescopes, is to gather light. The larger the diameter of the spotting scope's objective lens, the more light it gathers, with more light translating into a brighter and better image. As the size of the objective lens increases, greater detail and clarity of image will be afforded.

Magnification (Power)

Magnification is the degree to which the object being viewed is enlarged. Magnification, or power, in a spotting scope is a function of the relationship of two independent optical systems – the optics of the spotting scope itself and the eyepiece being used. By exchanging an eyepiece of one focal length for another eyepiece with a different

Magnification (Power) (continued)

focal length, you can increase or decrease the magnification of the spotting scope. There is, however, a limit to how much you can magnify an image. As a rule of thumb, the maximum magnification is equal to 50 to 60 times the diameter (in inches) of the spotting scope's objective lens (under ideal conditions). Magnification higher than this will produce a dim and fuzzy image. In most cases, a magnification of 20 to 35x is the most useful and satisfying range to use with spotting scopes under normal daytime conditions. Zoom spotting scopes have a single, built-in eyepiece to give you a range of magnifications without the need to change eyepieces.

Focal Length

Focal length is the distance, in an optical system, from the objective lens to the point where the instrument is in focus (the focal point). The longer the focal length of the instrument, the larger the image scale it offers.

Near Focus

Near focus is the distance between the instrument and the nearest object you can focus on, while maintaining a good image and sharp focus, defines the near focus. Short near focus is important for close-up visual and photographic work.

Field Of View

The size of the area, in degrees, that can be seen while looking through the spotting scope is the angular field of view. Linear field of view refers to the width of the area that can be observed at 1,000 yards, and is expressed in feet. A larger field of view translates to a larger area seen through the spotting scope.

Field of view is related to magnification. In general, the greater the magnification the smaller field of view. The angular field of view is calculated by dividing the apparent field of the eyepiece by the magnification being used. ($AFE \div \text{Magnification} = AFV$). Once the angular field of view is known, the linear field can be determined by multiplying the angular field by 52.5.

Focal Ratio or Photographic Speed (f/Stop)

Focal ratio is the ratio of the focal length of the spotting scope to the diameter (aperture) of its objective lens, in millimeters. Spotting scopes with small f/stop numbers react to incoming light faster than spotting scopes with larger f/stop numbers. So, the smaller the f/stop number, the shorter your photographic exposure time.

Exit Pupil

The diameter, in millimeters, of the beam of light that leaves the eyepiece of the spotting scope is the "exit pupil". To calculate the exit pupil, divide the size of the objective lens, in millimeters, by the magnification of the

Exit Pupil (continued)

eyepiece being used. The larger the exit pupil, the brighter the image.

Eye Relief

Eye relief is the minimum distance between the eyepiece of the spotting scope and your eye that still allows you to see the entire field of view.

Portability

For applications such as hiking and hunting, portability is a prime factor to consider. For stationary viewing, a large diameter objective lens becomes of primary importance.

Use Of A Tripod

A spotting scope is usually mounted on a tripod, although they can be hand held. It is advisable to mount the spotting scope to a tripod to reduce the movement that accompanies the use of any optical instrument by hand.

Versatility

Most Celestron spotting scopes can be used three different ways. First, as a telephoto lens when attached to a 35mm SLR camera or digital camera. Second, for terrestrial (land) observing. Third, as a telescope. This is the ideal kind of versatility you should look for.

Parts Of A Spotting Scope



MINI ZOOM 22

Take it anywhere. Our compact waterproof 50mm spotting scope is available in 45° and straight through eyepiece viewing angles.

ULTIMA® 45° 23

Out of the box it's ready for action! The highly acclaimed Ultima Series features a 45° viewing angle, zoom eyepiece and multi-coated optics.

ULTIMA® STRAIGHT 23

Same as the Ultima 45° Series but with straight through viewing angle.

ULTIMA® SV 23

The New Ultima Swing View Spotter, quality design and superior optics...at any angle. Featuring our multi-angle diagonal prism.

ULTIMA® ED 24

The top of the line Ultima spotting scope. Optics feature Extra Low Dispersion glass for razor sharp images.



SPOTTING SCOPES

MAK SPOTTERS 25

Our MAK series brings portability and versatility to a new level. These scopes are great for terrestrial (land) and astronomical use.

REFRACTORS 26

Providing uncompromising optical quality and versatility with rugged construction, there is a Celestron refractor to fit your needs.

C5 SPOTTER 27

It has been used on the space shuttle and now it can be in your hands. The C5 is perfect for the backyard or out in the field.

VISTAPIX® IS70 28

Introducing the VistaPix Imaging Spotter (IS) from Celestron. Capture the action closer than ever before with this 3MP digital camera spotting scope. Unique product, advanced features, incredible price.



Mini 50mm Zoom - 45°
Model #52232

Celestron's Mini 50mm 45° and Straight Zoom Spotting Scopes pack a lot of performance in a small package! They are extremely versatile optical instruments that are designed to perform exceptionally well in a wide range of viewing situations. Use these fully waterproof scopes for bird watching, observing nature, long distance spotting, and enjoying outdoor scenery. The smooth focus and zoom controls are exceptionally easy to use and conveniently placed for quick and easy image acquisition. The Mini 50's can be used hand-held or attached to the included mini tripod for tabletop use. Weighing a mere 1.4 lbs. these high quality compact scopes can easily fit into a backpack or duffel bag. Both the scope and tripod can be stored and protected in the included soft carrying case.



Mini Zoom REFRACTOR



Mini 50mm Zoom - Straight
Model #52230

Mini 50mm Zoom Features:

- Fully Coated Optics
- Compact Waterproof Design
- Extendable Lens Shade to Reduce Glare
- Folding Mini Tripod Included
- Soft Carrying Case
- No-Fault Lifetime Warranty



MINI ZOOM SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52232	Mini 50mm Zoom-45°	50mm	250mm	12-36x	Waterproof	3°-1.6°	160@12x 82@36x	17@36x	23@36x	Fully Coated	8.5 in.	1.4 lb.
52230	Mini 50mm Zoom-Straight	50mm	250mm	12-36x	Waterproof	3°-1.6°	160@12x 82@36x	17@36x	23@36x	Fully Coated	10 in.	1.4 lb.

Specifications subject to change without prior notice.

Celestron's highly acclaimed Ultima Series is more versatile than ever. Ultima models are available in 45°, "straight-thru" and "Swing View" eyepiece configurations. In addition, all Ultima models are now waterproof (except Ultima 60SV). The Ultima Series feature multi-coated optics to provide exceptional clarity and brilliance. The Ultima 80mm features excellent multi-coated optics offering 50% brighter images than the 65mm. The largest aperture scope in the Ultima line, the 100mm, provides the best performance in low light conditions.

Ultima Series spotters perform extremely well under all light conditions which makes them ideal for all types of outdoor viewing activities including bird watching, nature and wildlife, target shooting – even astronomy. The Ultimas are as great to look at as they are to look through. Their sleek design is accented with graceful contours that make them easy to hold and handle.

The Ultima Series spotters are the perfect choice for the outdoor enthusiast looking for a spotter with quality design and construction, superior optics, and versatility at an affordable price.



Ultima Series Features:

- 100mm, 80mm, 65mm, 60mm Aperture Spotting Scopes
- Multi-Coated Optics
- Zoom Eyepiece
- Sighting Tube
- Soft Carrying Case
- No-Fault Lifetime Warranty



Ultima 60SV - Swing View
Model #52256



Ultima 60SV Features:

- Adjustable eyepiece angle
- Rotatable tripod adapter
- Extendable lens shade
- Large focus ring for precise adjustments
- Hard carrying case



Optional T-Adapter
for Photography
Model #93641

Ultima® REFRACTOR



Ultima 80 - Straight
Model #52254

Ultima 80 - 45°
Model #52250



ULTIMA SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	WEATHER PROOF	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52256	Ultima 60SV – Swing View	60mm	400mm	20-60x	Water Resistant	1.8°-1°	94@20x 89@18x	32@20x	20@20x	Fully Multi-Coated	16 in.	3.4 lb.
52248	Ultima 65 – 45° View	65mm	386mm	18-55x	Waterproof	1.7°-.73°	38@55x 89@18x	18@18x	20@18x	Multi-Coated	13 in.	2.3 lb.
52249	Ultima 65 – Straight View	65mm	386mm	18-55x	Waterproof	1.7°-.73°	38@55x 105@20x	18@18x	20@18x	Multi-Coated	16 in.	2.3 lb.
52250	Ultima 80 – 45° View	80mm	480mm	20-60x	Waterproof	2°-1°	53@60x 105@20x	18@20x	27@20x	Multi-Coated	16 in.	3.6 lb.
52254	Ultima 80 – Straight View	80mm	480mm	20-60x	Waterproof	2°-1°	53@60x 95@22x	18@20x	27@20x	Multi-Coated	19 in.	3.6 lb.
52252	Ultima 100 – 45° View	100mm	540mm	22-66x	Waterproof	1.8-1°	53@66x	18@22x	33@22x	Multi-Coated	19 in.	4.5 lb.

Specifications subject to change without prior notice.



Ultima 100ED - 45°
Model #52253

The Ultima ED Series is the high end version of Celestron's highly acclaimed Ultima Series. The ED Series features the same rugged construction and features as the regular Ultima models except the optics have been upgraded with Extra Low Dispersion (ED) glass for razor sharp images and virtually no chromatic aberration. Ultima ED Series spotters perform extremely well under all light conditions which makes them ideal for all types of outdoor viewing activities including bird watching, nature and wildlife, target shooting – even astronomy. The Ultimas are as great to look at as they are to look through. Their sleek design is accented with graceful contours that make them easy to hold and handle. The Ultima ED Series spotters are the perfect choice for the outdoor enthusiast looking for a spotter with quality design and construction, superior optics, and versatility at an affordable price.



Ultima® ED REFRACTOR

PAGE
24



Ultima 80ED - 45°
Model #52251

Ultima ED Series Features:

- 100mm, 80mm Aperture Spotting Scopes
- Extra Low Dispersion (ED) Glass
- Multi-Coated Optics
- Zoom Eyepiece
- Sighting Tube
- Soft Carrying Case
- No-Fault Lifetime Warranty



ULTIMA ED SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52251	Ultima 80ED – 45°	80mm	480mm	20-60x	2°-1°	105@20x 53@60x 95@22x	18@20x	27@20x	Multi-Coated	16 in.	3.6 lb.
52253	Ultima 100ED – 45°	100mm	540mm	22-66x	1.8°-1°	53@66x	18@22x	33@22x	Multi-Coated	19 in.	4.5 lb.

Specifications subject to change without prior notice.

Celestron Maks bring portability and versatility to a new level. The Maksutov optical design is recognized for being compact, easy to use, and applicable for both terrestrial (land) and astronomical use. The **C65 Mini Mak** is a small but powerful spotting scope that includes a tabletop tripod which has built-in slow motion controls, a built-in zoom eyepiece capable of 90x magnification, and soft carrying case. The **C90 Mak** features an internal flip mirror design which allows the user to view celestial objects at a 90° angle and also corrects the image orientation to view land objects at a 45° angle. The full-featured C90 Mak is also rubber covered and completely waterproof. Compared to the 90mm Mak, the Celestron **C130 Mak** offers images that are twice as bright, allowing for better performance in low light conditions. The C130 Mak has excellent optics with razor sharp images over a wide field and also features an internal flip mirror design. The C130 Mak can also be mounted to a traditional heavy duty photo tripod and is also adaptable to Celestron's Advanced GT equatorial mounts.



C65 Mini Mak
Model #52234

C65 Mini Mak
Waterproof
Model #52235

MAK SPOTTING SCOPES



C90 Mak Waterproof
Model #52265

C130 Mak
Model #52275



C65 Mini Mak/C65 Mini Mak Waterproof Features:

- Maksutov-Cassegrain Optical Design with Multi-Coated Optics
- Waterproof (#52235)
- 45° Eyepiece – Zooms up to 90x
- Table Top Tripod with Slow Motion Controls
- Soft Carrying Case
- No-Fault Lifetime Warranty

C90 Waterproof/C130 Mak Features:

- Maksutov-Cassegrain Optical Design with Multi-Coated Optics
- Rubber Armor Protective Covering for Secure Grip (#52265)
- Internal Flip Mirror system for terrestrial and astronomical use
- Comes with – 32mm Eyepiece, 45° Erect Image Diagonal and a Finderscope
- Water-Resistant Soft-Sided Case
- Limited Lifetime Warranty

MAK SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL LENGTH	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52234	C65 Mini Mak	65mm	835mm	30-90x	1.5°-5°	26@90x 79@30x	15@30x	33@30x	Multi-Coated	9 in.	3.1 lb.
52235	C65 Mini Mak Waterproof	65mm	835mm	30-90x	1.5°-5°	26@90x 79@30x	15@30x	33@30x	Multi-Coated	9 in.	3.4 lb.
52265	C90 Mak Waterproof	90mm	1200mm	38x	1.4°	73@38x	22	20	Multi-Coated	9 in.	3.1 lb.
52275	C130 Mak	130mm	2000mm	63x	.83°	44@63x	22	40	Multi-Coated	18 in.	9.3 lb.

Specifications subject to change without prior notice.

80ED Refractor
Model #52280



80ED Refractor Features:

- Extra-Low dispersion glass
- 25mm eyepiece (20x), 45° erect image diagonal, 6x30 erect image finderscope
- Adaptable to the Advanced GT computerized mount
- Limited Lifetime Warranty



Onyx 80EDF Refractor
Model #52285

Optional Erect
Image Diagonal
Model #94112-A

Onyx 80EDF Features:

- Starbright® XLT high transmission coatings
- Combination of fluorite based, low dispersion glass with high density crown glass for virtually color-free images across the visible spectrum
- 2" Crayford style focuser
- Integrated dovetail compatible with Advanced GT computerized mount

Our Refractor Series provides uncompromising optical quality and versatility with rugged construction and user-friendly features. The large aperture makes it the perfect choice for many uses including bird watching, photography, nature study, hunting, scenic observing – in fact, almost any type of terrestrial (land) observing that you can imagine. The carefully crafted, multi-coated optics used in these scopes provide excellent contrast. **The 80 ED Refractor** is for serious nature and bird watchers. Extra Low Dispersion (ED) glass optics provide excellent color correction and razor sharp images while virtually eliminating chromatic aberration. The 80ED features a 2" rack and pinion focuser and a bracket that allows it to be mounted on to a photo tripod or Celestron's Advanced GT



Refractor SPOTTING SCOPES

102mm Wide View
Model #52270



102mm Wide View Features:

- Fully multi-coated optics
- 25mm eyepiece (20x), 10mm eyepiece (50x), 45° erect image diagonal, 8x20 erect image finderscope
- Limited Lifetime Warranty

computerized mount. With a focal length of 600mm (f/7.5) the 80ED refractor is well suited for wide field astrophotography as well as nature photography. The 80ED Refractor comes complete with a 25mm 1.25" eyepiece, erect image diagonal and 6x30 finderscope. **Celestron's Onyx 80EDF Premium Refractor** with Fluoro-ED glass and Celestron's Starbright® XLT Coatings, the choice couldn't be more clear. This high-end refractor also features a 2" Crayford style rotatable focuser with built-on metal sight scope and extendable lens shade. Comes standard with premium foam-lined aluminum carrying case. Compatible with the Advanced GT computerized mount. **The 102mm Wide View** spotting scope's big 4" aperture provides bright breath-taking views and its fully multi-coated optics perform brilliantly in low light conditions. Photographers will appreciate the 102's fast 500mm f/5 optical system. Its classical refractor design with achromatic two-element lens made of crown and flint glass is well suited to both visual and photographic applications. The 102mm Wide View is lightweight and portable enough for serious field work as well as bird watching, astronomy, photography and nature study. Two 1.25" eyepieces are included for 20x and 50x magnification as well as a 45° erect image diagonal and tripod adapter.



REFRACTOR SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft.@ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52280	80ED Refractor	80mm	600mm	24x	2.2°	114@24x	20	28	Fully Multi-Coated	23 in.	4.5 lb.
52285	Onyx 80EDF	80mm	500mm	N/A	N/A	N/A	N/A	N/A	StarBright® XLT	16 in.	6.1 lb.
52270	102mm Wide View	102mm	500mm	20-50x	2.5°	131@20x	22	15	Fully Multi-Coated	21 in.	5 lb.

Specifications subject to change without prior notice.

The Celestron C5 Spotting Scope is a 5" (127mm) aperture, 1250mm effective focal length f/10 Schmidt-Cassegrain optical system. NASA has recognized the optical excellence of the C5 by selecting it for use on many of its past Space Shuttle missions.

The C5 spotting scope is the ideal choice for the serious bird watcher or naturalist who enjoys breathtaking views – either in their backyard or out in the field. The Celestron C5 is also a superb astronomical telescope. In fact, the Celestron C5 is designed and manufactured to the same exacting standards as Celestron's legendary Schmidt-Cassegrain astronomy telescopes.

Weighing a mere six pounds and measuring a short 13" in length, the C5 is a solidly-built and completely portable visual and photographic instrument that will perform flawlessly in any viewing situation. The C5's near focus of approximately 20' allows you to easily observe plant life, wildlife, birds, or insects. The 5" aperture allows the C5 to easily outperform smaller aperture spotting scopes. Gathering 4.5 times more light than a 60mm spotting scope and 2.5 times more than an 80mm scope, our C5 is the spotting scope of choice for a powerful instrument that delivers brilliant, crisp views time after time.



Saturn. Photo courtesy of Damian Peach



Using the C5 for photography couldn't be easier. The C5 converts from a powerful spotting scope to a high performance 1250mm effective focal length f/10 telephoto lens. To take professional quality images with the C5, simply attach an optional T-Adapter and T-Ring for your 35mm SLR camera to the rear of the C5 (or a digital camera with specific adapter) and you're ready to shoot (see your Celestron dealer or the Celestron website for the proper adapter for your camera). Mount the C5 quickly and easily to a tripod for viewing or photography by using the tripod adapter block on the C5's optical tube. Celestron offers a wide variety of optional accessories to expand the capabilities of this very special optical instrument. When not in use, the C5 can be protected when placed inside the included soft-sided carrying case.



C5 Spotter
Model #52291

C5 Spotter

SCHMIDT-CASSEGRAIN

C5 Spotter Features:

- StarBright® XLT Coatings
- Schmidt-Cassegrain Optical Design
- Included: 25mm (50x) Eyepiece, 45° Erect Image Diagonal, and 6x30 Erect Image Finderscope
- Water-Resistant Soft-Sided Case
- Limited Lifetime Warranty



C5 SPOTTER SPECIFICATIONS

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EYE RELIEF (mm)	NEAR FOCUS (ft.)	COATING	LENGTH	WEIGHT
52291	C5 Spotter	127mm	1250mm	50x	1°	53@50x	22	20	Starbright® XLT	13 in.	6 lb.

Specifications subject to change without prior notice.



Capture rare moments in the field. Introducing the VistaPix Imaging Spotter (IS) from Celestron. Capture the action closer than ever before with this 3.1MP digital camera spotting scope. Unique product, advanced features, unbeatable price.

High quality spotting scope and state-of-the-art digital camera in one full-featured, easy-to-use unit.



VistaPix® IS70 IMAGING SPOTTER

PAGE
28



VistaPix IS70 Features:

- 70mm spotting scope will get you 14x closer to the action
- 2" color LCD screen provides sharp, clear imaging preview
- 3.1 megapixel image resolution
- Dual power camera for high magnification (24x) or wide field of view (7x)
- Digital focus meter for quick, sharp focus capability
- Camera shutter cable for vibration free imaging
- 6x digital zoom
- Rotatable tripod adapter fits standard photo tripods or Celestron computerized mounts
- Continuous video capability
- View images on your TV screen with included video cable
- Retouch and modify images with included Photobase and Panorama Maker software
- Includes protective carrying case for travel and storage
- Best warranty in the business (2 year)

VISTAPIX IS70 SPECIFICATIONS

SPOTTING SCOPE

MODEL #	MODEL	APERTURE	FOCAL	POWER	ANGULAR FIELD OF VIEW (FOV)	LINEAR FOV (ft. @ 1000 yd.)	EYE RELIEF	NEAR FOCUS	COATING	LENGTH	WEIGHT
52212	VistaPix IS70	70mm	210mm	14x	4°	210	13mm	15 ft.	Fully Coated	18 in.	3.5 lb.

CAMERA

MODEL	SENSOR	RESOLUTION	DIGITAL ZOOM	LCD	MEMORY	FIELD OF VIEW	CAMERA POWER	# IMAGES HI-RES	# IMAGES LOW-RES	SELF TIMER	VIDEO (approx.)	BATTERIES REQUIRED
52212	CMOS	3.1MP (2048x1536)	6x	2"	32MB Internal & SD Card	5.6 Low 2° High	7x Low 24x High	38	660	10 Sec.	30 sec.	2-AA

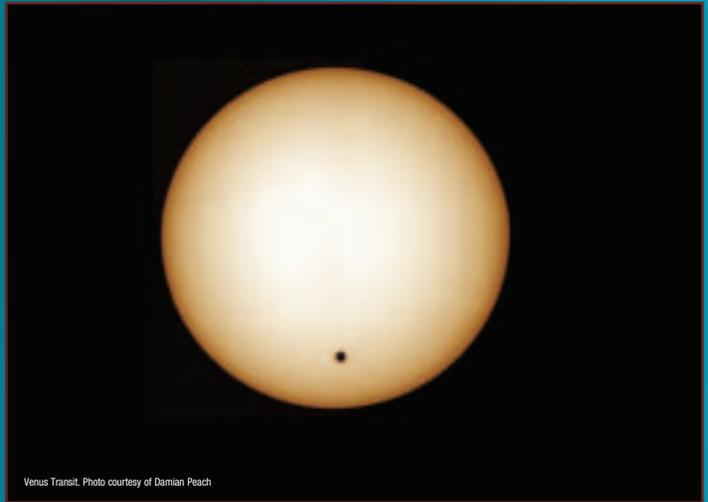
Specifications subject to change without prior notice.

POWERSEEKER® 30-31

This family of basic telescopes features refractors and reflectors on both altazimuth mounts and equatorial mounts in a wide range of apertures from 50mm to 127mm.

POWERSEEKER®² 31

This unique telescope family gets attention due to its unique square tube design. Available in 60mm and 70mm apertures, both models come complete with their own carrying cases.



Venus Transit. Photo courtesy of Damian Peach

SPECIALTY OPTICS

PAGE
29

NEXSTAR SLT™ 32-33

Designed to be an affordable entry level to mid-level computerized GoTo telescope, the NexStar Star Locating Telescope (SLT) refractors and reflectors are available in the most popular sizes and are loaded with valuable design features.

EXPLORASCOPE 34

Designed for portability and ease of use, this small scope features an impressive 80mm or 100mm of aperture on a simple to use swivel mount.

SKYSCOUT™ 35

The SkyScout is a revolutionary handheld device that uses advanced GPS technology with point and click convenience to identify thousands of stars, planets, constellations and more.



PowerSeeker 127EQ

- Newtonian Reflector
- German Equatorial Mount
- Eyepieces: 20mm (50x), 4mm (250x), Barlow lens 3x
- Focuser 1-1/4"

Model #21049

PowerSeeker® SERIES

PAGE
30

Types of PowerSeeker Mounts

German Equatorial Mount uses a counterweight opposite the telescope to counterbalance the weight of the telescope. The telescope may be polar aligned to track the sky and compensate for the Earth's rotation.

Altazimuth Mount (or Alt-Az) moves parallel and perpendicular to the horizon. This motion is very intuitive and is especially easy to use for terrestrial viewing.

Types of PowerSeeker Telescopes

Refractor Telescopes (also known as dioptrics) are what the average person identifies with the word "telescope", a long, thin tube where light passes in a straight line from the front objective lens directly to the eyepiece at the opposite end of the tube.

Newtonian Reflector Telescopes usually use a concave parabolic primary mirror to collect and focus incoming light onto a flat secondary (diagonal) mirror that in turn reflects the image out of an opening at the side of the main tube and into the eyepiece.

No tools are required for assembly!
All models come with pre-assembled tripods.

Celestron PowerSeeker telescopes are a great way to open up the wonders of the Universe to the aspiring astronomer. The PowerSeeker series is designed to give the first-time telescope user the perfect combination of quality, value, features and power.

Amateur astronomy is a great family hobby that can be enjoyed year round, and Celestron's PowerSeekers are the ideal choice for families looking for an affordable and high quality telescope that will provide many hours of enjoyment for children and adults alike.

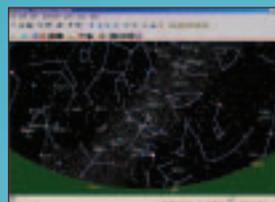
PowerSeekers are quick and easy to set up – even for the novice. **No tools are required for assembly!** Their sturdy equatorial mounts are perfect for tracking objects in the night sky, and the collapsible alt-azimuth mounts are perfectly suited for terrestrial (land) viewing as well as astronomical use. All of Celestron's PowerSeekers include a full range of eyepieces plus a 3x Barlow lens that provides an increase in viewing power hundreds of times greater than that of the unaided eye!



The Moon. Photo courtesy of Bill Cannistra



PowerSeekers are powerful designs with ample optical performance to excite any newcomer to the world of amateur astronomy. All models include a pre-assembled tripod for quick "no tool" setup. PowerSeekers are available in a choice of optical tube and mount designs that include refractor, reflector, equatorial, or altazimuth mounts. The uniquely designed PowerSeeker square optical tube helps reflect stray light away from the user's eye, giving higher contrast planetary and lunar views. The new PowerSeeker² models now include an erect image rotatable Tri-ocular Eyepiece Holder that allows you to instantly change the power of your telescope by rotating the eyepiece holder and is ideal for land viewing as well as astronomical viewing. PowerSeekers are designed and manufactured using all glass optical components with high transmission coatings for enhanced image brightness and clarity. PowerSeeker Newtonian reflectors offer the user larger apertures and greater light gathering power that is required to resolve the faint details of hundreds of deep-sky and other celestial objects.



Locate and identify thousands of celestial objects on your laptop or PC with "The Sky" Level 1 software included **FREE** with every PowerSeeker model.



PowerSeeker 60EQ

- Refractor
- German Equatorial Mount
- Eyepieces: 20mm (45x), 4mm (225x), Barlow lens 3x
- Star diagonal - 1-1/4"
- 1.5x image erecting eyepiece

Model #21043



PowerSeeker 50

- Refractor
- Alt-Az Mount
- 20mm (30x), 12mm (50x), 4mm (150x), Barlow lens 3x
- Star diagonal - .96"

Model #21039



PowerSeeker 80EQ

- Refractor
- German Equatorial Mount
- Eyepieces: 20mm (45x), 4mm (225x), Barlow lens 3x
- Star diagonal - 1-1/4"

Model #21048



PowerSeeker 60

- Refractor
- Alt-Az Mount
- 20mm (35x), 4mm (175x), Barlow lens 3x
- Star diagonal 1-1/4"
- 1.5x image erecting eyepiece

Model #21041



PowerSeeker 114EQ

- Newtonian Reflector
- German Equatorial Mount
- Eyepieces: 20mm (45x), 4mm (225x), Barlow lens 3x
- Focuser 1-1/4"

Model #21045

PowerSeeker® SERIES



The rotating Tri-Ocular Eyepiece Holder allows you to quickly and conveniently interchange eyepieces and select different magnifications while viewing objects.



PowerSeeker 76

- Newtonian Reflector
- Alt-Az Mount
- 20mm (35x), 4mm (175x), Barlow lens 3x
- Focuser 1-1/4"

Model #21044



PowerSeeker² 70

- Refractor
- Alt-Az Mount
- Tri-Ocular holder:
- Erect image - 1-1/4"
- Eyepieces: 20mm (45x), 12.5mm (72x), 4mm (225x)
- Barlow lens 3x - 1-1/4"
- Compass
- Soft storage case

Model #21029

PowerSeeker² 60 (not shown)

- Refractor
- Alt-Az Mount
- Tri-Ocular holder
- Erect image - 1-1/4"
- Eyepieces: 20mm (35x), 12.5mm (56x), 4mm (175x)
- Barlow lens 3x - 1-1/4"
- Compass
- Soft storage case

Model #21028



The PowerSeeker² telescopes include a soft sided storage case for easy transport.

POWERSEEKER SPECIFICATIONS

MODEL #	DESCRIPTION	OPTICAL DESIGN	MOUNT	APERTURE	FOCAL LENGTH	FINDERSCOPE	WARRANTY
21043	PowerSeeker 60EQ	Refractor	German Equatorial	60mm (2.4")	900mm (f/15)	5x24	2-Year
21048	PowerSeeker 80EQ	Refractor	German Equatorial	80mm (3.1")	900mm (f/11)	5x24	2-Year
21045	PowerSeeker 114EQ	Newtonian Reflector	German Equatorial	114mm (4.5")	900mm (f/8)	5x24	2-Year
21049	PowerSeeker 127EQ	Newtonian Reflector	German Equatorial	127mm (5")	1000mm (f/8)	5x24	2-Year
21039	PowerSeeker 50	Refractor	Altazimuth	50mm (2")	600mm (f/12)	5x24	2-Year
21041	PowerSeeker 60	Refractor	Altazimuth	60mm (2.4")	700mm (f/12)	5x24	2-Year
21044	PowerSeeker 76	Newtonian Reflector	Altazimuth	76mm (3")	700mm (f/9)	5x24	2-Year
21028	PowerSeeker ² 60	Square Tube Refractor	Altazimuth	60mm (2.4")	700mm (f/12)	5x20	2-Year
21029	PowerSeeker ² 70	Square Tube Refractor	Altazimuth	70mm (2.8")	900mm (f/13)	5x20	2-Year



NexStar 130 SLT

The user friendly NexStar series....

Designed to be an affordable entry level to mid-level computerized GoTo telescope, the NexStar SLT refractors and reflectors are available in the most popular sizes and are loaded with valuable design features. With pre-assembled, adjustable stainless steel tripods, and quick release fork arms and tubes, NexStar SLT telescopes can be set up in a matter of minutes – with no tools required!

You can see details of the lunar surface, Venus and its phases, Mars resolved as an orange disc, Jupiter and its four moons, Saturn with its rings plainly visible and much more! Most NexStar SLT's can also be used as a land-based spotting telescope.

Intelligent Design: Powered by 8 AA (user supplied) batteries or an optional AC adapter (#18773) these NexStar GoTo's love to travel. The internal battery compartment provides power to the high precision servo motors for rigid low-vibration performance while eliminating cord wrap issues associated with external battery packs.



NexStar SLT™ SERIES

PAGE
32

Standard Features and Accessories Include:

- Computerized hand control with 4,000+ object database
- Quick-release fork arm mount, optical tube and accessory tray for quick no tool set up
- SkyAlign allows you to align on any three bright celestial objects, making for a fast and easy alignment process
- Comes with "The Sky" Level 1 planetarium software and NSOL telescope control software for controlling your telescope via computer
- Internal battery compartment to prevent cord wrap during use
- Sturdy stainless steel tripod
- StarPointer finderscope to help with alignment
- Auxiliary port for additional accessories such as GPS accessory
- Motorized altazimuth mount and fully computerized hand control
- U.S. and International city database to easily set your location
- Flash upgradeable hand control software and motor control units
- Operates in both AC and DC (AC requires an optional adapter)
- 2 year warranty



Solar Eclipse. Photo courtesy of Jason Fournier.



With the NexStar's ergonomically designed hand control, the user is free to remove the hand control from its holder for remote use or leave it cradled for hands-free operation. With a touch of a button you can select the object catalog, change the slew speed, view fascinating information about an object, or simply know if a desired object is visible in the sky.

Celestron's Revolutionary SkyAlign

Using Celestron's patented SkyAlign (patent pending), simply input the date, time and location into the hand control then slew the telescope to any three bright celestial objects in the sky. You do not need to know the names of the stars – you can even pick the Moon or bright planets!





NexStar 60SLT
 • 60mm Computerized Refractor
 • Altazimuth Mount
 Model #22076



NexStar 114SLT
 • 114mm Computerized
 Newtonian Reflector
 • Altazimuth Mount
 Model #31143



NexStar 80SLT
 • 80mm Computerized Refractor
 • Altazimuth Mount
 Model #22086

NexStar SLT™ SERIES



NexStar 102SLT
 • 102mm Computerized Refractor
 • Altazimuth Mount
 Model #22096



NexStar 130SLT
 • 130mm Computerized
 Newtonian Reflector
 • Altazimuth Mount
 Model #31145

NEXSTAR SLT SPECIFICATIONS

MODEL #	DESCRIPTION	APERTURE	OPTICAL DESIGN	FOCAL LENGTH	EYEPIECES	FINDERSCOPE	MOUNT	WEIGHT
22076	NexStar 60 SLT	60mm (2.4")	Refractor	700mm f/12	25mm (28x), 9mm (78x)	StarPointer	Altazimuth	9.5 lbs
22086	NexStar 80 SLT	80mm (3.1")	Refractor	900mm f/11	25mm (36x), 9mm (100x)	StarPointer	Altazimuth	14 lbs
22096	NexStar 102 SLT	102mm (4")	Refractor	660mm f/6.5	25mm (26x), 9mm (73x)	StarPointer	Altazimuth	14 lbs
31143	NexStar 114 SLT	114mm (4.5")	Reflector	1000mm f/9	25mm (40x), 9mm (111x)	StarPointer	Altazimuth	15 lbs
31145	NexStar 130 SLT	130mm (5")	Reflector	650mm f/5	25mm (26x), 9mm (62x)	StarPointer	Altazimuth	18 lbs



ExploraScope 100mm
Model #21032

The sky's the limit with ExploraScope!
The Celestron ExploraScope is a unique, portable, and easy to use Newtonian Reflector telescope. It makes a perfect gift for kids and families. The ExploraScope's large 80mm or 100mm aperture allows users to explore the Moon's craters and marvel at Saturn's rings. The ExploraScope has a built-in erect image lens so you may also use it as a spotting scope to view nature. ExploraScope is lightweight, so you can carry it anywhere your journeys take you! With a handy carrying strap, the ExploraScope is perfect for hiking, camping, or backpacking. ExploraScope comes complete and ready to use with swivel base, tripod adapter, and complete easy-to-follow set-up and operating instructions. Packed with cool features, ExploraScope is built to last and built for fun. 2-Year Warranty.



Saturn. Photo courtesy of Damian Peach.



ExploraScope SERIES



ExploraScope 80mm
Model #21030

ExploraScope is compact, lightweight and easy to handle.

The ExploraScope kit includes a lens cap, swivel base, tripod adapter, carrying strap, and complete easy-to-follow set-up and operating instructions.

ExploraScope 80mm Features:

- 11% brighter images than a 76mm telescope and 78% brighter images than a 60mm telescope
- Attached eyepiece brings objects 44 times closer
- Built-in erect image lens allows daytime views to be right-reading
- Durable construction and carrying strap make it ideal for hiking and backpacking
- Easy to adjust collimation

ExploraScope 100mm Features:

- 56% brighter images than an 80mm telescope and 178% brighter images than a 60mm telescope
- Attached eyepiece brings objects 50 times closer
- Built-in erect image lens allows daytime views to be right-reading
- Durable construction and carrying strap make it ideal for hiking and backpacking
- Easy to adjust collimation

EXPLORASCOPE SPECIFICATIONS

MODEL #	DESCRIPTION	OPTICAL DESIGN	DIAMETER	FOCAL LENGTH	MAGNIFICATION	FIELD OF VIEW	LENGTH	WEIGHT
21030	ExploraScope 80	Newtonian Reflector	80mm	550mm	44x	1°	14 in.	5 lb.
21032	ExploraScope 100	Newtonian Reflector	100mm	400mm	50x	1°	16 in.	6 lb.

Specifications subject to change without prior notice.



SkyScout™ PERSONAL PLANETARIUM

The SkyScout is a revolutionary handheld device that uses advanced GPS technology with point and click convenience to identify thousands of stars, planets, constellations and more.

Identify: Simply point the SkyScout at any star in the sky and click the "target" button. The SkyScout will tell you what object you are looking at.

Locate: To locate a star or planet, select the object's name from the menu and follow the directional arrows through the viewfinder. SkyScout tells you when you are on target. It's that easy!

Learn: Once you have targeted an object, the real fun begins. The SkyScout provides entertaining and educational audio and text information, including facts, trivia, history and mythology about our most popular celestial objects.

A fun learning tool for all ages, the SkyScout personal planetarium puts the knowledge of an expert astronomer in the palm of your hand.

SkyScout Features:

- Uses GPS technology to identify over 6,000 celestial objects with the click of a button
- Locate stars, planets, constellations and more
- Simple enough for all ages – just turn it on and it's ready to use
- Includes "Tonight's Highlights", a customized list of the 20 best objects to view for your exact date, time and location anywhere in the world
- Audio and in-depth text descriptions provide history, mythology and other information for the most popular objects
- Take a guided tour through all 88 constellations and even see on-screen constellation maps
- Built-in Field Guide includes a six part audio lesson on astronomy, bios about history's greatest astronomers, glossary of popular astronomy terms, information on comets, man-made space objects, extra-solar planets and much more
- Bring it anywhere – durable, compact and light design makes it easy
- Database can be updated with new objects, comets, etc.
- Includes: vinyl carry case, earphones, battery sleeves, USB cable and CD-ROM w/ user manual and tutorial

MODEL #	DESCRIPTION	BATTERIES	WARRANTY
93970	SkyScout Personal Planetarium	2 AA (user supplied)	2-Year



BINOCULARS
SEE PAGES 03-19



**SPOTTING
SCOPES**
SEE PAGES 20-28



TELESCOPES
SEE PAGES 29-34



SKYSCOUT™
SEE PAGE 35

ABOUT CELESTRON For nearly four decades, Celestron has been recognized as one of the world's leading designers and manufacturers of high quality computerized and non-computerized telescopes, binoculars, spotting scopes, microscopes, and related accessories.

The foundation of Celestron's commitment to product design and engineering innovation is based upon its longstanding ability to manage and control all aspects of the design-to-market process. Celestron's staff of experienced engineers, industrial designers, and optical experts are consistently improving and refining our products as well as developing new products and technologies for our customers.

Celestron's passion for continuous product improvement, innovation, and design excellence ensures products that provide our customers with years of enjoyment, reliability, and, most important – VALUE.

For more information on the entire Celestron product line or to find a dealer near you please visit us at:

www.celestron.com

PERFORMANCE • INNOVATION • VALUE



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