

OPTICS



SPORT OPTICS
CARSON® 2008/2009



Contents:

XM-HD Series Binoculars	2-3
XM Series Binoculars	4-5
YK Series Binoculars	6-7
Full Size / Zoom Binoculars	8-9
Compact Binoculars	10-11
Monoculars & Scopes	12-13
Pocket Microscopes	14-15
Telescopes	16
Cleaning Accessories	17
Tripods / Accessories	18-19
Outdoor Magnifiers / Kids	20-21
Custom Packaging / Terminology	22-23

Count on Carson... to bring you and your customers truly innovative, high-quality optics at extraordinary value. We've become a leading supplier in consumer optics for people of all ages and interests.

Whether you're a hunter, birder, sports fan, or concert goer, Carson has the perfect optical product to enhance your viewing experience. Our new state-of-the-art design center enables us to offer innovative products and attractive packaging at a reasonable cost. Carson's dedicated sales team provides the personalized support necessary to meet your every need.

No-Fault, No-Hassle Warranty* At Carson, we manufacture only the highest quality binoculars. We're so confident in our products that we back them with America's best binocular warranty! See our website for details. In the event that your binoculars get damaged, regardless of cause, Carson will repair or replace them for a total cost of \$12, which includes all return shipping and handling fees, **NO HIDDEN CHARGES!** If your binoculars are found to have manufacturing defects in materials or workmanship, Carson will repair or replace your binoculars and return them **FREE-OF-CHARGE**. Please Call for details.

**Battery operated items are protected by our Standard One-Year Limited Warranty.*

Carson Optical
35 Gilpin Avenue
Hauppauge, New York 11788-4723

Phone 631-963-5000 | Fax 631-427-6749
For information, call toll-free: 1-800-967-8427
info@carsonoptical.com
sales@carsonoptical.com
www.carsonoptical.com

XM-HD



HIGH DEFINITION

HIGH DEFINITION

High Definition Binocular Series

**Features an
astonishing 84.7%
light transmission that
outperforms most of
our competitor's more
expensive models.**

See test results at www.carsonoptical.com

SERIES BINOCULARS

ULTRA BRIGHT IMAGE



Fully Multi-Coated | O-Ring Sealed | Phase Coated | Waterproof | Fog Proof

NEW!

XM-050HD

10 x 50mm
High Definition



NEW!

XM-832HD

8 x 32mm
High Definition



**HD OPTICAL
COATING TO
ENHANCE
BRIGHTNESS**

Model	XM-842HD	XM-042HD	XM-050HD	XM-832HD
Magnification	8 x 42mm	10 x 42mm	10 x 50mm	8 x 32mm
Prism	BAK-4	BAK-4	BAK-4	BAK-4
Lens Coating	FMC	FMC	FMC	FMC
Field of View	330 ft	314 ft	262 ft	420 ft
Eye Relief	22mm	17mm	19mm	15.5mm
Close Focus	13.1 ft	16 ft	19 ft	9.8 ft
Weight	24.3 oz.	24.3 oz.	34 oz.	20.6 oz.



XM-042HD

10 x 42mm



XM-842HD

8 x 42mm





XM SERIES BINOCULARS

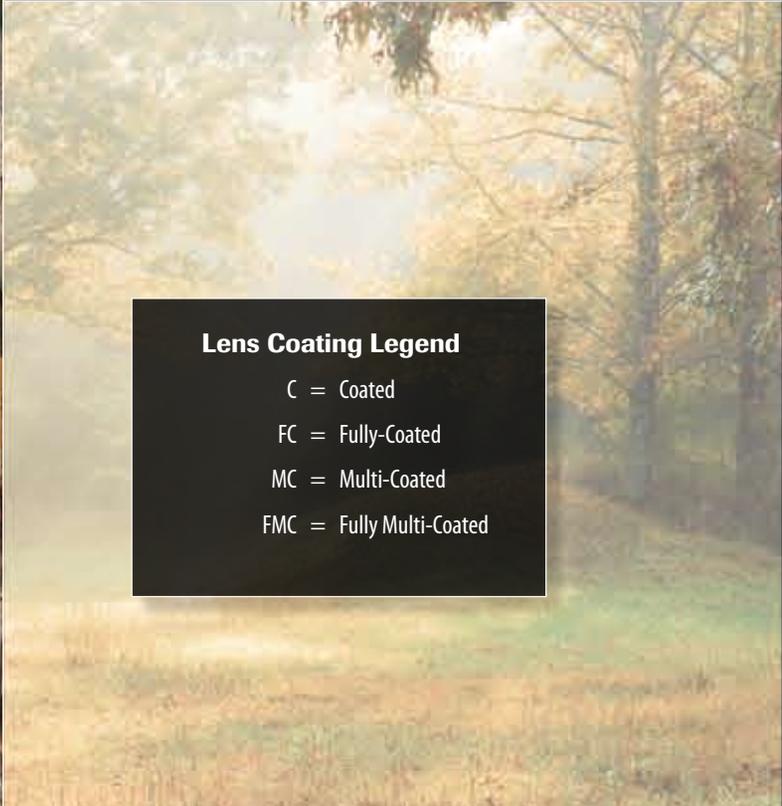


XM-842
8 x 42mm  **ULTRA BRIGHT
IMAGE**



Fully Multi-Coated | O-Ring Sealed

Model	XM-825	XM-025	XM-832	XM-842
Magnification	8 x 25mm	10 x 25mm	8 x 32mm	8 x 42mm
Prism	BAK-4	BAK-4	BAK-4	BAK-4
Lens Coating	FMC	FMC	FMC	FMC
Field of View	272 ft	262 ft	420 ft	330 ft
Eye Relief	18.5mm	17mm	15.5mm	22mm
Close Focus	6.6 ft	6.6 ft	9.8 ft	13.1 ft
Weight	12.2 oz.	12.4 oz.	20.6 oz.	24.3 oz.



Lens Coating Legend

- C = Coated
- FC = Fully-Coated
- MC = Multi-Coated
- FMC = Fully Multi-Coated



Phase Coated | Waterproof | Fog Proof



XM-832
8 x 32mm



XM-025
10 x 25mm



XM-825
8 x 25mm





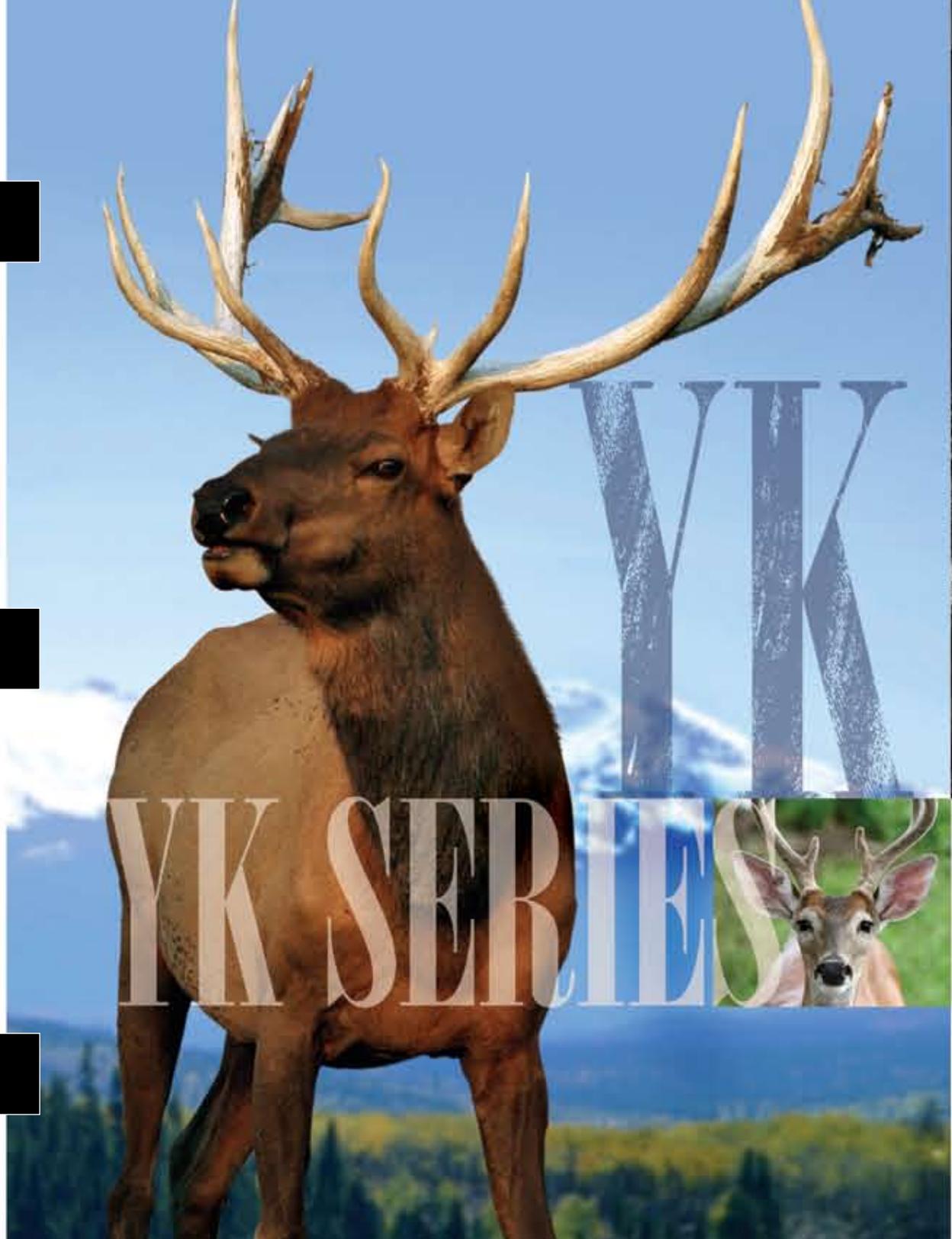
YK-828
8 x 28mm

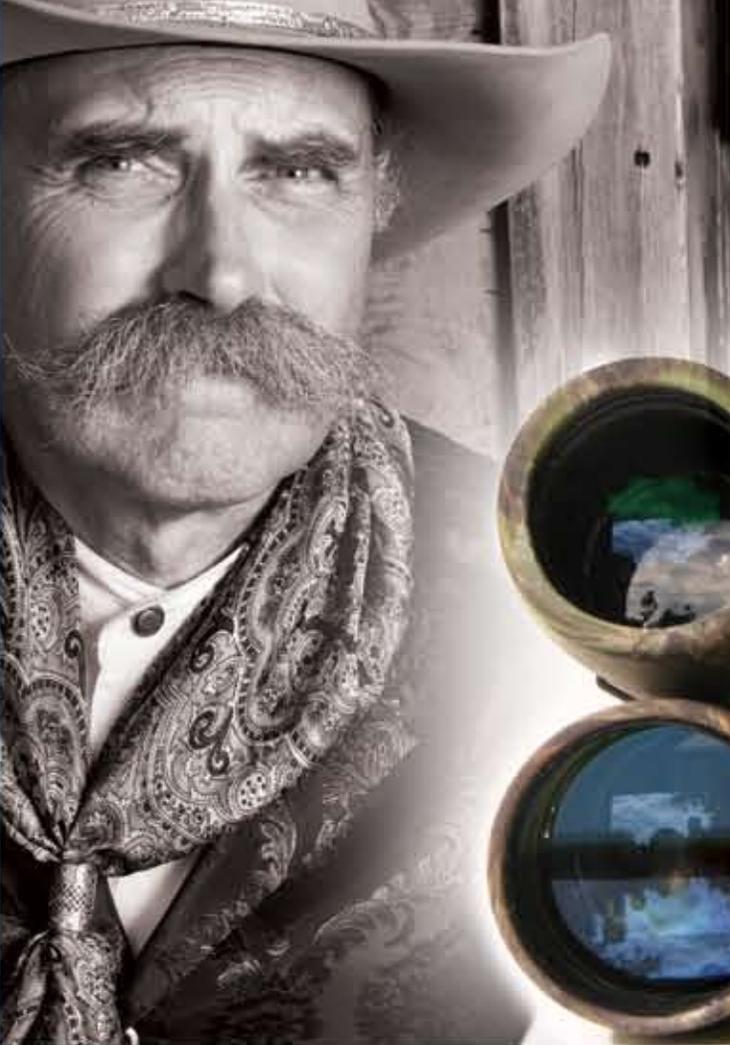


YK-028
10 x 28mm



YK-832
8 x 32mm





YK-042

10 x 42mm



YK-600

12 x 50mm



YK-842

8 x 42mm



Model	YK-828	YK-028	YK-832	YK-842	YK-042	YK-600
Magnification	8 x 28mm	10 x 28mm	8 x 32mm	8 x 42mm	10 x 42mm	12 x 50mm
Prism	BAK-4	BAK-4	BAK-4	BAK-4	BAK-4	BAK-4
Lens Coating	FMC	FMC	FMC	FMC	FMC	FMC
Field of View	327 ft	272 ft	330 ft	368 ft	284 ft	252 ft
Eye Relief	17.9mm	14mm	23mm	19mm	17mm	19.5mm
Close Focus	9.8 ft	9.8 ft	16 ft	16 ft	16 ft	16 ft
Weight	16.2 oz.	16.2 oz.	23.5 oz.	31.0 oz.	31.0 oz.	41.0 oz.



NEW! JK-Series™
JK-042 | 10 x 42mm



**EXTREME
CLOSE FOCUS**

**5-6 FEET
GREAT FOR
BIRD WATCHING**

Model	JK-842	JK-042
Magnification	8 x 42mm	10 x 42mm
Prism	BAK-4	BAK-4
Lens Coating	FMC	FMC
Field of View	320 ft	306 ft
Eye Relief	22mm	16mm
Close Focus	5 ft	6 ft
Weight	21.5 oz.	22 oz.

NEW! JK-Series™
JK-842 | 8 x 42mm



FULL-SIZE

ZOOM BINOCULARS



Model	AZ-725	CZ-021	MZ-517	Z-80S
Magnification	7-28 x 25mm	10-30 x 21mm	5-15 x 17mm	20-80 x 25mm
Prism	BK-7	BK-7	BAK-4	BAK-4
Lens Coating	FC	MC	FC	FMC
Field of View	261/105 ft	173/84 ft	315/183 ft	98/42 ft
Eye Relief	10-8mm	12-7.5mm	13-10mm	5.6mm
Close Focus	16 ft	7.55 ft	10 ft	13 ft
Weight	11.0 oz.	9.3 oz.	7.0 oz.	12.5 oz.

NEW Greyhawk™
CZ-021 | 10-30 x 21mm



SuperZoom™
Z-80S | 20-80 x 25mm



AutoZoom™
AZ-725 | 7-28 x 25mm

**PUSH
BUTTON
ELECTRONIC
ZOOM**



MiniZoom™
MZ-517 | 5-15 x 17mm





ViewPoint™

VP-830 | 8 x 30mm

*Also Available
in black with blue trim
VP-030 | 10 x 30mm*

CheckeredFlag™

CF-025 | 10 x 25mm

Available in:

Fire Engine Red Lemon Yellow Royal Blue



COMPACT BINOCULARS



Trek™

TK-821 | 8 x 21mm



Micro™

VM-616 | 6 x 16mm



Tracker™

TZ-821 | 8 x 21mm



OutdoorPak™

TZ-401

Pack Includes:
TZ-821 Binocular
Compass
Flashlight
Multi-Tool

Model	CF-025	TK-821	TZ-821	VM-616	VP-830	VP-030
Magnification	10 x 25mm	8 x 21mm	8 x 21mm	6 x 16mm	8 x 30mm	10 x 30mm
Prism	BK-7	BK-7	BK-7	BK-7	BK-7	BK-7
Field of View	290 ft	365 ft	379 ft	472 ft	342 ft	273 ft
Weight	7.4oz.	7.0 oz.	6.8 oz.	5.5 oz.	16.2 oz.	17.0 oz.

**BUILT-IN
DIGITAL COMPASS**



TrailFinder™

TF-025 | 10 x 25mm



SHOCK FREE!

NoShock™

NS-025 | 10 x 25mm



Model	JD-718	JD-822	JD-025	MO-026	NS-025	TF-025
Magnification	7 x 18mm	8 x 22mm	10 x 25mm	10 x 26mm	10 x 25mm	10 x 25mm
Prism	BK-7	BK-7	BK-7	BAK-4	BAK-4	BK-7
Field of View	489 ft	393 ft	342 ft	273 ft	275 ft	343 ft
Weight	4.5 oz.	6.0 oz.	9.9 oz.	9.0 oz.	30.0 oz.	12.0 oz.



MiniScout™

JD-718 | 7 x 18mm



Scout™

JD-822 | 8 x 22mm



ScoutPlus™

JD-025 | 10 x 25mm



Falcon™

MO-026 | 10 x 26mm

NEW!

CloseUp™

CF-718
7-18mm
Close-Focusing
Monocular

EXTREME CLOSE FOCUS
FOCUS AS CLOSE AS 10 INCHES
FROM YOUR SUBJECT



NaviScope™

NS-630
6 x 30mm
Built-In Digital Compass



HawkEye™
GolfScope

GS-718 7 x 18mm

Model	CF-718	GS-718	NS-630
Magnification	7 x 18mm	7 x 18mm	6 x 30mm
Prism	K-9	BK-7	BAK-4
Field of View	472 ft	378 ft	579 ft
Weight	1.8 oz.	2.0 oz.	6.4 oz.



MONOCULARS





MonoZoom™

ZM-825
8-16 x 25mm
Zoom Monocular



X-View™

XV-732
7 x 32mm Close-Focusing
Monocular

Model	BA-825	XV-732	SS-550	ZM-825
Magnification	8 x 25mm	7 x 32mm	15-40 x 50mm	8- 16 x 25mm
Prism	BK-7	BAK-4	BK-7	K-9
Field of View	393 ft	381 ft	141/72 ft	241/157 ft
Weight	3.2 oz.	7.5 oz.	23.5 oz	4.0 oz.



Bandit™

BA-825
8 x 25mm

**ONE TOUCH
FOCUS LEVER**



straight
observation

or twist to view
at 45°

BackCountry™

SS-550 | 15-40 x 50mm
Dual Angle Spotting Scope



& SCOPES

POCKET MICROSCOPES

NEW!



zPix

MM-640 | 26x - 130x
Zoom Digital Microscope

Also Available

zPix 200™

MM-740 | Cobalt | 1.3 Megapixel
26x - 130x Zoom Digital Microscope



Integrated Camera and Video Capture!

- | | |
|--|---|
| <p>Zoom Digital Microscope
 Specimen Base
 Forceps
 Eyedropper
 USB cable</p> | <p>3 Blank Slides
 1 Prepared Specimen Slide
 CD Rom Software
 640 x 480 Resolution</p> |
|--|---|



NEW!

zPix | Microscope Accessory Kit™
 MM-01

Kit Includes:

- 3 prepared slides including Honeybee mouth, Fruit fly, Grasshopper leg
- 7 blank slides
- 10 slide covers
- 1 tweezer
- 1 storage case

Please note that any pictorial representations shown on this page do not in any way constitute a representation by the manufacturer that such objects can be seen with these products.



Mac OS 10.4 or later





NEW!

X Scope™

CP-11

8x / 9x / 30x Pocket Scope

30x Microscope,
8x Telescope,
9x Fold-out Magnifier,
Directional Compass,
LED Flashlight,
Signal Whistle,
Digital Clock



NEW!

MicroBrite™

MM-24

20-40x Power LED Microscope



NEW!

MicroMax LED™

MM-200

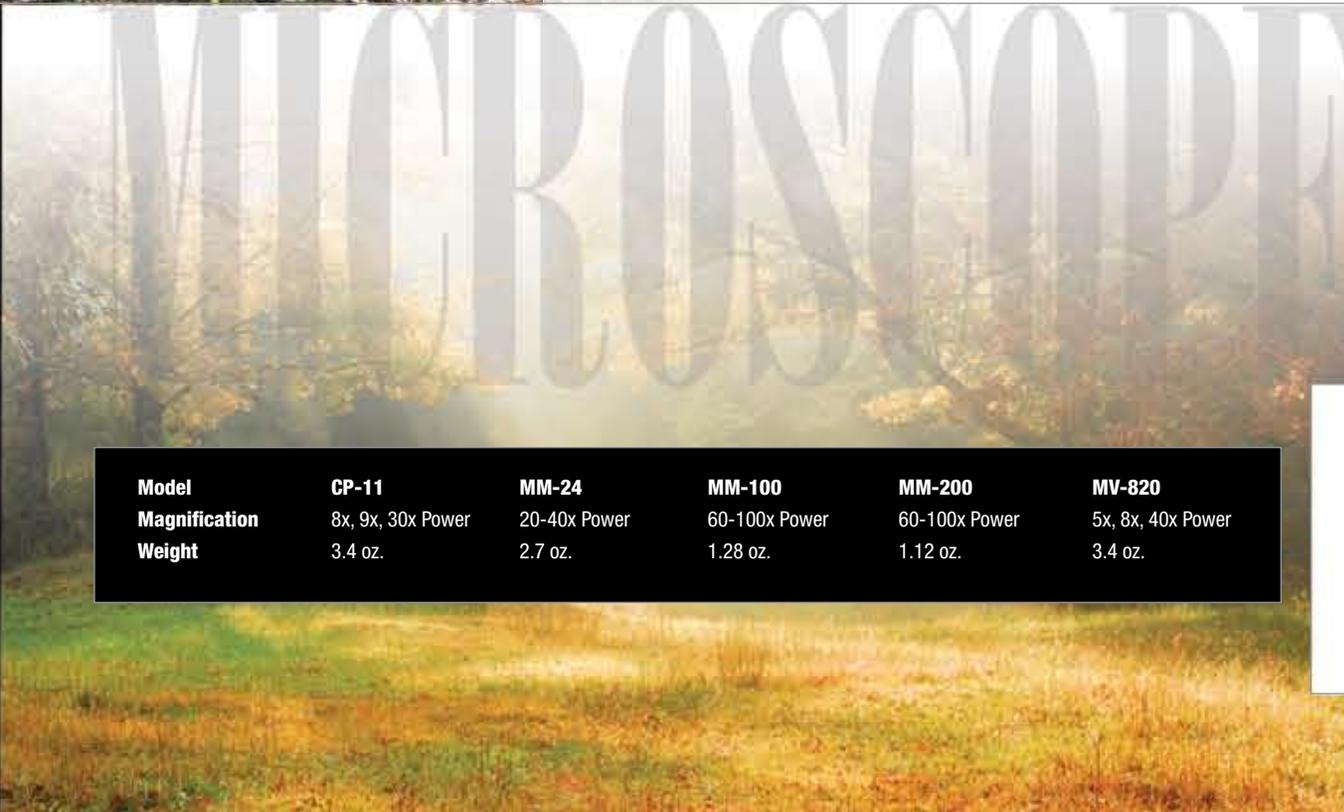
60-100x Power LED Microscope



MicroMax™

MM-100

60-100x Power Microscope



NEW!

MicroView™

MV-820

5x, 8x, 40x
8x20mm Monocular,
5x stand Magnifier,
Precision 40x Portable
Microscope.



Model	CP-11	MM-24	MM-100	MM-200	MV-820
Magnification	8x, 9x, 30x Power	20-40x Power	60-100x Power	60-100x Power	5x, 8x, 40x Power
Weight	3.4 oz.	2.7 oz.	1.28 oz.	1.12 oz.	3.4 oz.



SkySeeker™

JC-1000
40-100 x 60mm

Includes:
H-8, H-20 Eyepieces
5 x 24mm Finder



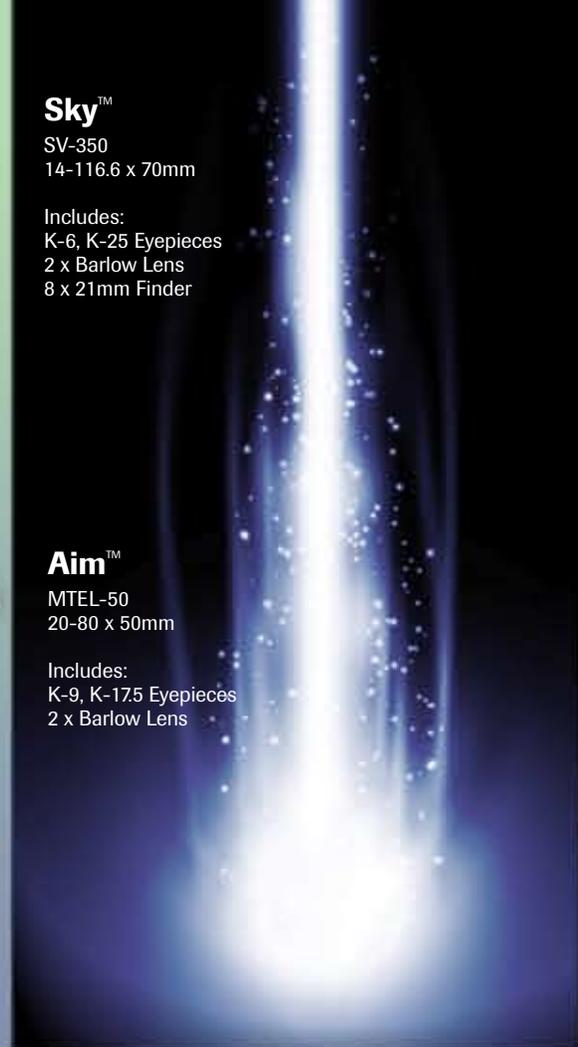
Sky™
SV-350
14-116.6 x 70mm

Includes:
K-6, K-25 Eyepieces
2 x Barlow Lens
8 x 21mm Finder



Aim™
MTEL-50
20-80 x 50mm

Includes:
K-9, K-17.5 Eyepieces
2 x Barlow Lens



TELESCOPES

Model	MTEL-50	SV-350	JC-1000
Product	20-80x 50mm	14-116.6 x 70mm	40-100x 60mm
Description	2 Eyepieces, 2x Barlow Lens, Tripod	2 Eyepieces, 2x Barlow Lens, Tripod	2 Eyepieces, 5x Finder Scope, Aluminum Tripod
Weight	1.8 lbs	6.8 lbs	7.0 lbs

Please note that any pictorial representations shown on this page do not in any way constitute a representation by the manufacturer that such objects can be seen with these products.

Small Lenses

LensPen MiniPro™

LP-50
Cleaning System
for Small Lenses



Standard Lenses

LensPen™

LP-99
Cleaning System
for Standard Lenses



LensPen™

LP-80
Camouflage



Digital & SLR Sensors

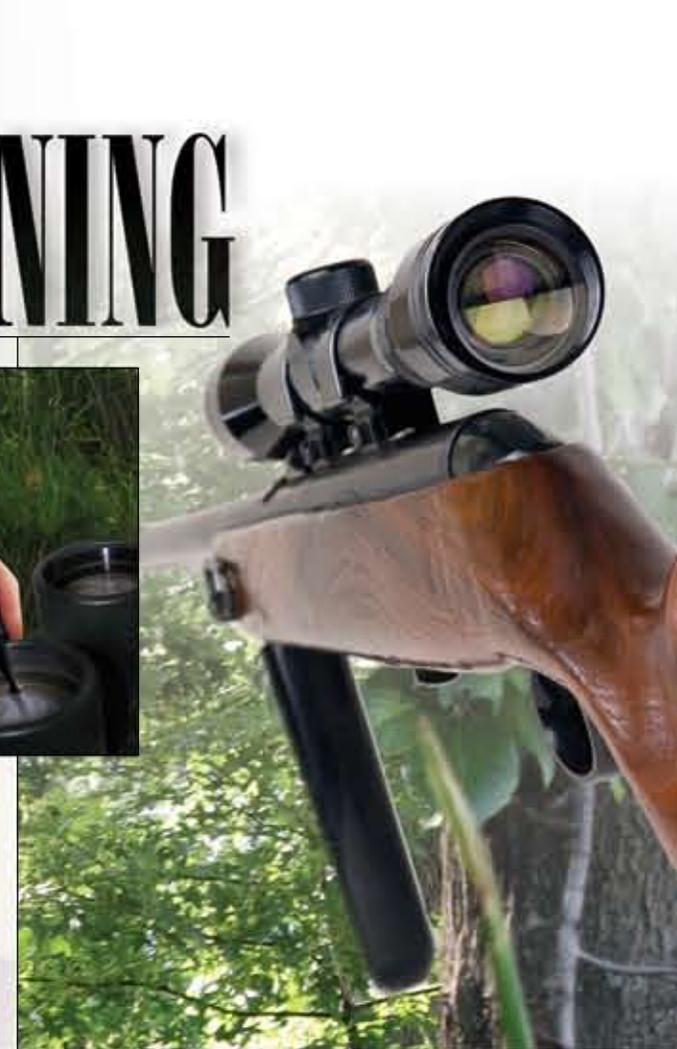
NEW!

SensorKlear™

LP-60
Cleaning System
for Digital Camera Sensors and SLR Sensors



CLEANING



LCD Screens

LapTop Pro™

VM-50
Cleaning System for Lap-Top
Computer Screens & Keyboards



Computer Screens

VidiMax™

VM-99
Cleaning System
for Computer Screens





The Rock Professional™

TP-400 3-Way Panhead Tripod



65" max ht. / 26" min ht.



The Rock Deluxe™

TP-300 3-Way Panhead Tripod



61" / 25"



The Rock Original™

TP-200 3-Way Panhead Tripod



54" / 21"



The Rock Junior™

TP-100 3-Way Panhead Tripod



18.5" / 11"

Binocular Not Included

TRIPODS



Level

Quick Release

Geared Elevator

Hook / Handle





NEW!

BinoArmor™

BA-03

Easy-Access
Protective Binocular
Wrap



StarMap™ Light

SL-1 | Red LED Flashlight

**LED
LIGHTED**



ACCESSORIES



Tripod Adapter

TA-1 | Binocular Tripod Mount



NEW!

Stuff-It™

SN-50 | Retractable
Microfiber Lens Cloth
with Neoprene Pouch

**RETRACTS
WITH EASE!**



Also Available
SN-50H

HandiPod™

TA-2 | Compact Folding Tripod



OUTDOOR MAGNIFIERS

Model	Description
OD-65	2 x Power Flexible, LED Lighted Magnifier w/4 x Spot Lens and Clamp-on Base
OD-10	1.5 x Power (+2.25 Diopters) Clip-On, Flip-Up Magnifying Lenses for Eyeglasses
OD-12	1.75 x Power (+3.00 Diopters) Clip-On, Flip-Up Magnifying Lenses for Eyeglasses
OD-14	2 x Power (+4.00 Diopters) Clip-On, Flip-Up Magnifying Lenses for Eyeglasses
OD-75	1.5 x Power Clip-On, Magnifying Lenses for Hats, with Batteries and Built-In Case
OD-55	4 x Power Magnifier with Attached Precision Tweezers
OD-36	2.5 x Power Hand Magnifier with 5 x Power Spot Lens
OD-25	5 x Power Lighted, Retractable Pop-Out Magnifier
OD-99	4x Power Magnifier with Attached Precision Tweezers, Hook Cleaner and Line Cutter
VM-10	1.75 x Power (+3.00 Diopters) Clip-On, Flip-Up Magnifying Glasses w/ Carry Pouch
VM-12	2 x Power (+4.00 Diopters) Clip-On, Flip-Up Magnifying Glasses w/ Carry Pouch
VM-14	2.25 x Power (+5.00 Diopters) Clip-On, Flip-Up Magnifying Glasses w/ Carry Pouch



TyMate™
OD-75



NEW! VisorMag™
VM-10 | VM-12 | VM-14



Clip & Flip™
OD-10 | OD-12 | OD-14



MagniFly™
OD-65



Use with Batteries or with
Included 4.5V DC Adaptor



NEW! Fish 'n Grip™
OD-99



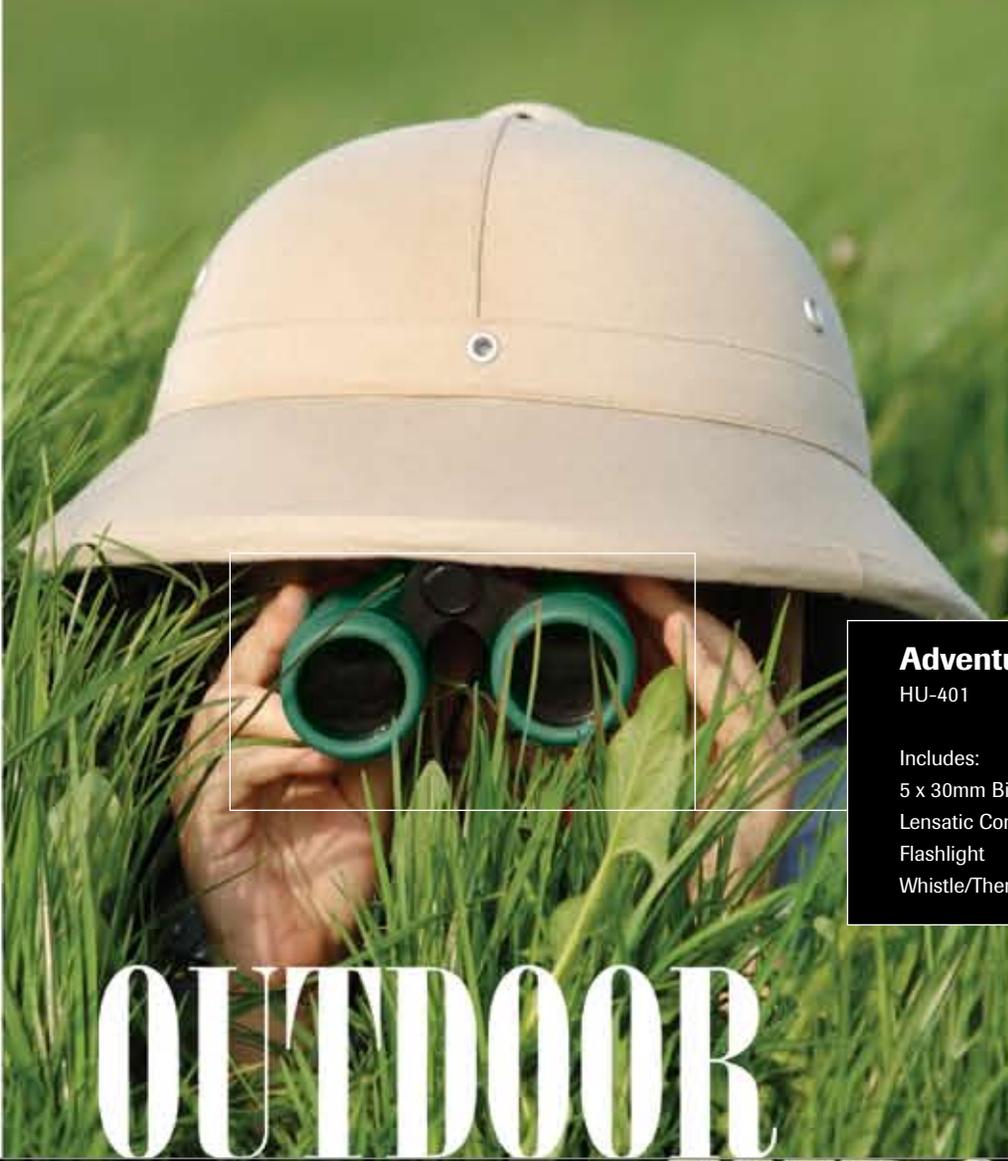
MagniGrip™
OD-55



LumiClick™
OD-25



MagniView™
OD-36



OUTDOOR KIDS

Model	Description
HU-55	5 x Power Stand Magnifier
HU-10	One-Hand Bug Catcher with 5 x Power Magnifier
HU-521	5 x 21mm Fixed Focus Binocular with Built-In Compass
HU-530	5 x 30mm Ultra Lightweight Kid's Binoculars
HU-20	2.5 x Power (5-inch) Acrylic Hand Magnifier
HU-401	5 x 30mm Binocular, Lensatic Compass, Flashlight, Whistle/Thermometer



WildCat™
HU-521



Hawk™
HU-530

**FOCUS-FREE
BUILT-IN COMPASS**

AdventurePak™
HU-401

Includes:
5 x 30mm Binocular
Lensatic Compass
Flashlight
Whistle/Thermometer



BugLoupe™
HU-55

BugView™
HU-10



BigEye™
HU-20

**OVERSIZED
5 INCH LENS**



CUSTOM PACKAGING



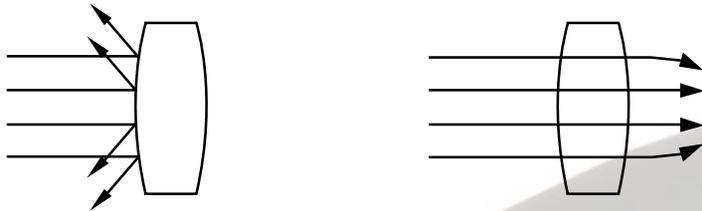
Custom imprints and innovative "high-tech" packaging are available for many of our binoculars, magnifiers and accessories. Great for private store brands, customer thank-you gifts, or employee incentive rewards. Call for details. *(Minimum purchase may apply.)*



TERMINOLOGY

Coated Optics

Coatings on lens surfaces reduce light loss and glare due to reflection, resulting in a brighter, higher-contrast image with reduced eyestrain. Lenses are coated with a microscopic film of magnesium fluoride. More coating leads to better light transmission.



Types of Coating

Coated: A single layer on at least one lens.

Fully-Coated: A single layer on all air-to-glass surfaces.

Multi-Coated: Multiple layers on at least one lens and all surfaces are coated at least once.

Fully Multi-Coated: Multiple layers on all air-to-glass surfaces.

Exit Pupil

The exit pupil refers to the size of the column of light that exits an eyepiece. The larger the exit pupil, the brighter the image.

To determine the size, divide the objective lens diameter by the magnification. (A 12 x 36mm model has an exit pupil, or usable light, of 3mm.)



Eye Relief

The distance an eyepiece can be held away from the eye and still present the full field of view. Extended or long eye relief reduces eyestrain and is ideal for eyeglass wearers.

Field of View

Field-of-view is the side-to-side measurement of the circular viewing field or subject area. It is defined by the width in feet or meters of the area visible at 1,000 yards or meters. A wide field-of-view is better for following fast-moving action or scanning for wildlife. Generally, the higher the magnification, the narrower the field-of-view.



Magnification (Power)

Binoculars and scopes are often referred to by two numbers separated by an "X". For example: 12 x 50mm. The first number is the power or magnification of the lens. With a 12 x 50mm power binocular, the object being viewed appears to be 12 times closer than you would see it with the unaided eye.

Objective Lens Size

The second number in the formula: (12 x 50mm) is the diameter of the objective or front lens in millimeters. The larger the objective lens, the more light enters the binocular, and the brighter the image.

50mm



80mm

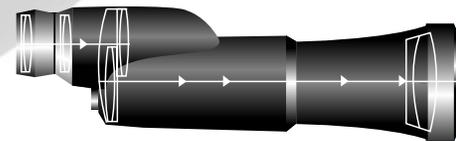


Prism Glass

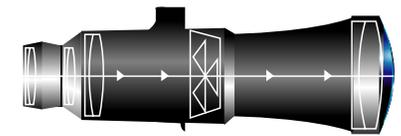
Most optical prisms are made from borosilicate (BK-7) glass or barium crown (BAK-4) glass. BAK-4 is higher quality glass yielding brighter images and high edge-sharpness.

Prism Systems

The prism system turns what would be an upside-down image right-side up.



Porro



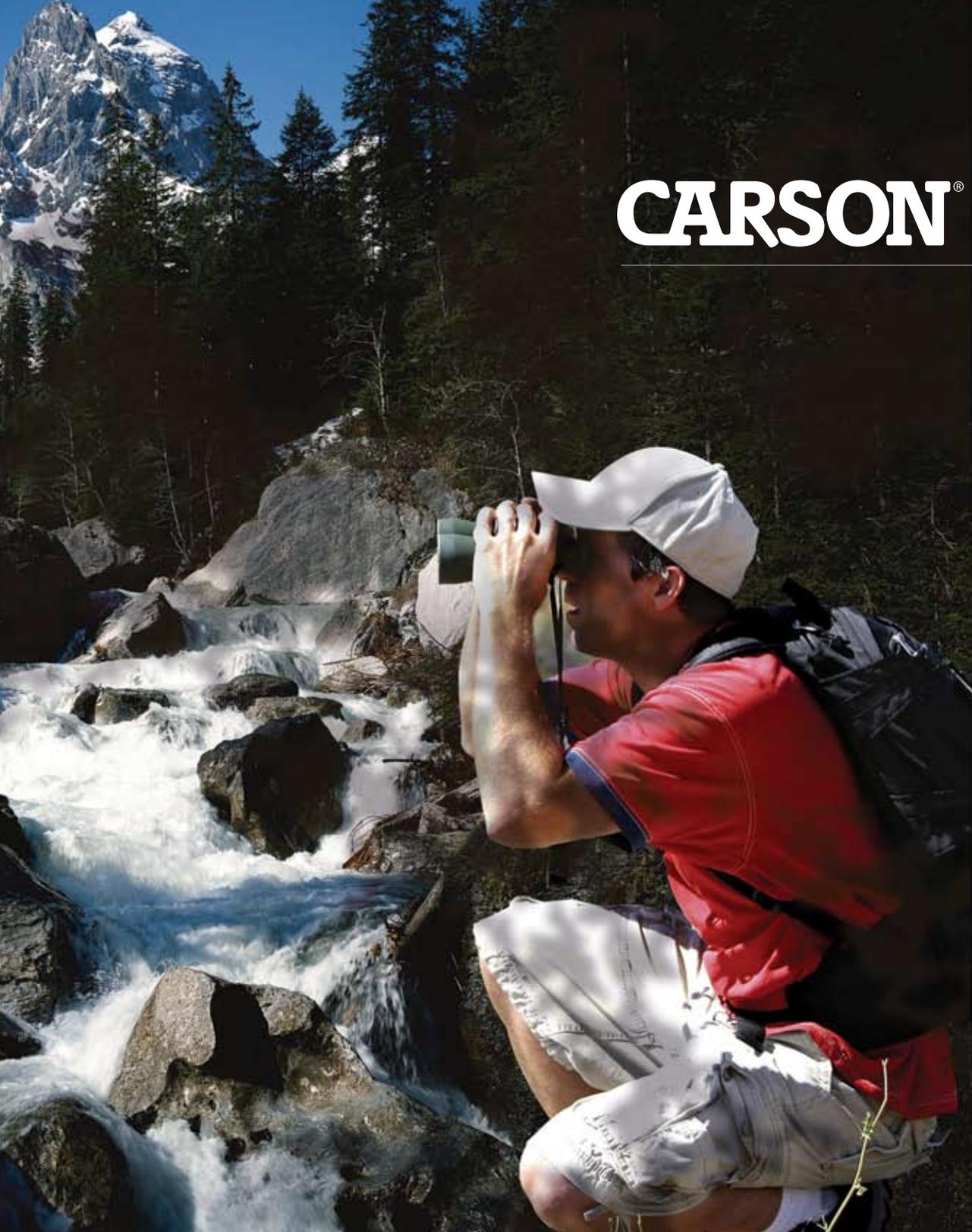
Roof

Roof Prism System – The prisms overlap closely, allowing the objective lenses to line up directly with the eyepiece. The result is a slim, streamlined shape in which the lenses and prisms that magnify and correct the image, are in a straight line.

Porro Prism System – The objective or front lens is offset from the eyepiece. Porro prisms provide greater depth perception and generally offer a wider field-of-view.

Waterproof / Fog Proof

Some binoculars and scopes are sealed with o-rings and are nitrogen purged for waterproof and fog proof protection. These models are able to withstand complete immersion and remain dry inside.

A man wearing a red t-shirt, white shorts, a white baseball cap, and a black backpack is crouching on a rocky bank. He is holding binoculars to his eyes, looking towards a rushing waterfall in a mountainous landscape. The background features snow-capped peaks and dense evergreen trees under a clear blue sky.

CARSON®

Carson Optical
35 Gilpin Avenue
Hauppauge, New York 11788-4723

Phone 631-963-5000 | Fax 631-427-6749
For information, call toll-free: 1-800-967-8427

info@carsonoptical.com
sales@carsonoptical.com
www.carsonoptical.com