



20×120 BINOCULARS TELESCOPE

BS-K7

High-Performance Observational Binoculars

20×120 High-Power Binoculars

LARGE-APERTURE HIGH-POWER BINOCULARS

LONG RANGE OBSERVATION

High-Performance Observational Binoculars

A Ø120 mm large-aperture objective lens and 20× magnification bring distant targets into bright, sharp view. These Korean-made large-aperture binoculars come from Baeksan Science Inc., which has designed and built large-aperture optics in-house since 1996.

20×

High Magnification

Identify people, vehicles and vessels at long range

120_{mm}

Large-Aperture Objective Lens

High light-gathering power, bright view

3°

Angle of View

52 m at 1,000 m

IPX7

Fully Waterproof, Nitrogen-Purged

1 m depth · 30 min

PRECISION OPTICS



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Precision optical design for bright, sharp long-range viewing

High-quality optical materials and AR fully multi-coated lenses cut light loss, and the left and right optical axes are precisely aligned.

- Objective lens Ø120 mm · Magnification 20×
- AR fully multi-coated lenses
- Individual focusing · Eye relief 17 mm · Diopter -4D ~ +3D
- Interpupillary distance adjustment 58~78 mm

BUILT FOR THE FIELD

Steady observation, even in harsh conditions

A corrosion-resistant aluminum alloy body and STS316 stainless steel parts keep it running reliably for years in coastal and outdoor environments.

- Nitrogen-purged, fully waterproof IPX7 (1 m depth, 30 min)
- Operating temperature -20 ~ +45 °C
- Azimuth 360° · Vertical -30° ~ +70° (locking pin)

BUILT FOR THE FIELD



MADE IN KOREA



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From design to A/S, all in Korea

We're the only company in Korea that builds large-aperture binoculars in-house. We make more than 50 molds and over 200 parts ourselves, then assemble them.

- Supplied to the Army, Navy, Marine Corps and Coast Guard for security and surveillance
- Fast repairs and parts supply, thanks to production in Korea
- 5-year warranty from the date of installation, excluding lens damage

PRODUCT PHOTOS

Smooth, precise observation with patented technology

Our patented observation drive technology makes even large-aperture binoculars of about 15kg light and smooth to handle. They move freely up, down, left and right while staying stable for observation. A high-adhesion special coating that resists seawater and salt gives them outstanding durability in marine environments.



Perspective



Objective Lens



Eyepiece



Head Detail

SPECIFICATIONS

Specifications

OPT

20×120 High-Power Binoculars

Power-free direct observation

Magnification	20×
Objective Lens	120 mm
Angle of View	3°
Field of View	52 m at 1,000 m
Eye Relief	17 mm
Diopter control	-4D ~ +3D
Interpupillary distance adjustment	58 ~ 78 mm
Coated Lenses	AR fully multi-coated
Prism	Porro type
Observation Distance	10 m ~ ∞ (based on normal vision)

MEC

Build & Environment

Long-term outdoor use

Body Dimensions (L × W × H)	680 × 440 × 180 mm
Body Weight	15 kg
Material	Special aluminum alloy, 316 stainless steel fittings
Waterproofing	Nitrogen-purged, fully waterproof IPX7 (1 m depth, 30 min)
Operating temperature	-20 ~ +45 °C
Azimuth adjustment	360° (locking pin)
Vertical adjustment	-30° ~ +70° (locking pin)
Waterproofing and operating temperature are based on official test reports.	

MNT

Installation

Fixed-mount stand

Pedestal	Fixed-mount · Aluminum · 410 × 180 × 410 mm · 5.6 kg
Stand (column)	Stainless steel · 500 × 127 × 1,150 mm · 10 kg
Wheels	Optional · 50 × 50 mm · 170 g
Power	Not required (power-free optical observation)
Manufacturer / Country of Origin	Baeksan Science Inc. / Made in KOREA

KEY FEATURES

Key Features

01

Ø120 mm Large Aperture

High light-gathering power brightens distant targets

02

Optical Materials · Porro

High-quality optical materials and a Porro prism

03

AR Multi-Coating

A clear view with less light loss

04

Individual Focus · Long Eye Relief

17 mm eye relief for long viewing sessions

05

Nitrogen-Purged IPX7

Resists fogging, even in rain and sea spray

06

Power-Free

Observe anytime, no batteries or power needed

MADE IN KOREA

Where Korean-Made Large-Aperture Binoculars Began

1996

Baeksan Science Inc. founded

Began designing and building large-aperture optics in-house

2013

A request from the military

"Can you build large-aperture observation equipment with adjustable interpupillary distance and focus here in Korea?" That question started our localization effort.

Development

Design and molds, again and again

Completed by matching the assembly tolerances of more than 50 molds and over 200 parts

Supply

To security sites nationwide

Field experience from military and maritime sites feeds product improvements and follow-on supply



Precision cleaning of the objective lens



Assembly and optical axis alignment

APPLICATIONS

Applications

01

Land Perimeter Security

Identify people and vehicles at long range

02

Coastal Surveillance

Watch approaching vessels and coastal activity

03

Naval Operations

Help identify vessels in surrounding waters

04

Observatories · Tourism · Astronomy

Tourist observation decks and astronomical observation

360° VIEW

360° 3D Render



The 360° 3D render is built from the design CAD model, so some details, such as the lower part of the stand, may differ from the actual product.

SERVICE

Service & Contact

5-year warranty

- From the date of installation, excluding lens damage
- Please include a brief note explaining the product defect and installation details, plus your return address and contact information
- If the product has been disassembled or reassembled by the user, A/S costs may apply

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Specifications and appearance are subject to change without prior notice for product improvement.



Mobile Catalog