

BORG
oasis studio

TOMY
Dream Energy

Photo: Comet Hyakutake
Borg 125EDF4 by Toshinari Tanaka

BORG

SERIES 2004

Parts Catalog

Photo: Orion Nebula BORG 100F4PH by Takayuki Hiroi

INDEX



Photo : Sagittarius Region BORG 100F4
Takayuki Hiroi

●Accessories

0000, 1000, 2000, 3000, 4000, 5000th

0034	6x30 Finder	13
1401	Turret Holder	10
3101	Fork Mount	13
3102	Attachment Block	13
3104	Balance Plate	13
3308	Tripod Stabilizer	*2
4013	WO13.5	10
4022	SWK22	10
4048	101ED Aperture Stop	11
4049	125ED Aperture Stop	11
4050	H-50	10
4051	Visual Baffle Set	11
4052	Visual Baffle 115mm	11
4053	Visual Baffle 57mm	11
4054	Visual Baffle 52mm	11
4317	Eyeiece Focuser	2
4603	2.2x Barlow	10
4604	Extension Tube	10
4605	1.25" to .965"	10
4611	Plastic Extension Tube	10
4801	Erecting Prism	10
5001	Pentax S Mount	7
5002	Pentax K Mount	7
5003	Nikon Mount	7
5004	Canon FD Mount	7
5005	Canon EOS Mount	7
5006	Minolta MD Mount	7
5007	Minolta α Mount	7
5008	Olympus Mount	7
5009	Yashica / Contax Mount	7
5010	Olympus E-1 Camera Mount	7
5403	Carrying Case P	14
5501	Tube Holder	12
5502	Adapter E	13
5503	Holder + E	12
5504	Takahashi Screw	13
5602	Rear Cap	11
5610	100 Cap	11
5612	125 Cap	11
5665	50 Cap	11
5676	76 Cap	11

●Accessories

General 7000th

7000	35mm Camera Mount	7
7004	ED F4 Super Reducer	7
7050	80 Tube 50mm	12
7080	Tube Band M	12
7081	Tube Cap	11
7128	Mini BORG AD	11
7129	80 Tube 124mm	11
7130	Front Focuser Set	11
7200	Image Shifter	14
7202	M57 Drawtube	10
7267	Multi 6x7 Camera Mount	7
7314	1.25" Eyepiece Holder SS	10
7315	Helical Focuser S	2
7316	1.25" to M36.4AD	10
7317	1.25" Eyepiece Holder	10
7318	1.25" Diagonal	14
7320	Focuser Base	10
7351	Rotating Ring	14
7356	1.25" to M57/60AD	8
7357	M57 Cap	11
7358	Desiccant Holder	11
7360	M43P0.75 to M57/60AD	9
7361	M36.4 Cap	11
7362	M36.4 to M57/60AD	9
7364	M57 to M36.4AD	9
7395	SD-2X	5
73951	SD-2X(A)	5
73952	SD-2X(B)	5
7396	2" to 1.25"ADII	10
7397	2" to 1.25"AD	10
7398	SD-2 Extension	5
7401	M57 to M28AD	5
7402	M57 to M30AD	5
7403	M57 to M37AD	5
7404	M57 to M43AD	5
7405	M57 to M52AD	5
7406	M57 to M55AD	5
7407	M57 to M58AD	5
7408	M57 to M49AD	5
7410	SD-1X	5
74101	SD-1X(A)	5
74102	SD-1X(B)	5
7423	M42 to M36.4/42AD	9
7424	SCT to M57/60AD	9
7425	2" to M57/60AD	10
7428	SCT to 7835/7837AD	9
7430	M57 to M43AD	9
7457	M57 to M57AD	9
7460	M60 to M60AD	9
7500	M6 Cap Screw	8
7501	2" Holder SSII	8
7502	M57 to SCT AD	9
7504	2" Holder SII	8
7505	2" Holder M	8

7506	2" Holder SS	8
7507	M68.8 to M57AD	9
7508	2" Holder S	8
7509	2" Holder L	8
7510	M60 to M57AD	9
7511	1.25" to C Mount AD	14
7522	M57 to M36.4/42AD	9
7523	M57 to M42P1AD	9
7524	M42P1 to M57/60AD	9
7525	M42P1 to M36.4/42P1AD	9
7526	M42P1 to C Mount AD	3
7527	C Mount to M42P1AD	3
7528	M42P0.75 to M57AD	9
7601	M57/60 Extension SS	8
7602	M57/60 Extension S	8
7603	M57/60 Extension M	8
7604	M57/60 Extension L	8
7749	Drawtube Holder	*6
7752	7x50 Finder	13
7754	Drawtube DX	11
7755	Finder Dovetail Base	13
7756	7x50 Finder Bracket	13
7757	M57 Helical Focuser	2
7784	35mm Flattenner 1.04x	12
7786	3x Teleconverter	12
7800	80 Tube 205mm	*6
7801	M77.6 to M68.6AD	11
7835	Helical Focuser M	2
7836	Turret AD	10
7837	Helical Focuser MDX	2
7838	Focuser Wheel	2
7840	M42 Focuser S	3
7841	M42 Focuser L	3
7842	M42 Focuser	3
7843	M42P1 to M49.8AD	3
7844	M42P1 to M39AD	3
7845	M42 Extension SS	3
7846	M42 Extension S	3
7847	M42 Extension M	3
7848	M42P1 to M34.5AD	3
7849	M34.5 to M40.5AD	3
7850	M39 to 1.25"AD	3
7851	M36.4 to M42P1AD	3
7852	M42P1 to M39ADII	3
7853	Elmar90/4 to M42P1AD	3
7854	Elmarit90/2.8 to M42P1AD	3
7855	M42P0.75 to M42P1AD	9
7856	M42P1 to M42P0.75AD	9
7857	M57 Helical Focuser	2
7858	M42 Extension SSS	3
7885	Mini Reducer 0.85x	12
7901	M60 to M57/60AD(Vixen)	8
7910	M47 to M57/60AD(Tak)	8
7911	M56 to M57/60AD(Tak)	8
7912	M72 to M57/60AD(Tak)	8
7913	M72 to M68.8AD(Tak)	8
7920	M49.8 to M57AD	12

●Series 115

8000th

8004	115 Tube 208mm	14
8035	35mm Camera ADII	14
8045	Super Reducer 6x7	12
8069	100 6x9 Hood	14
8116	M111 to M68.8AD	14
8119	M111 to M89AD	14
8149	115 Tube 149mm	14
8167	4" Helical Focuser	2
8267	6x7 Multi AD	14
8317	Visual Drawtube	14
8335	115 Tube 335mm	14
8380	115 Tube 380mm	14
8567	Pentax 67 AD	7
8645	Mamiya 645 AD	7
8670	6x7 Flattenner	12
8750	115 Tube Finder Base	14
8782	Filter Ring 72-82mm	14
8916	Draw Tube Attachment	14

●Others

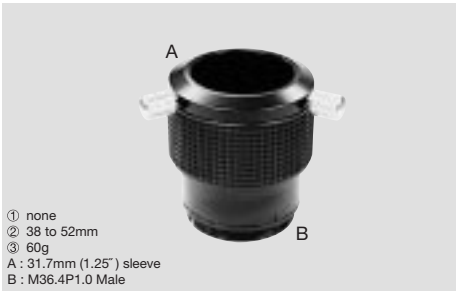
9000th

9791	EMS-S	14
9792	Solar Filter	11
9793	FeatherTouch Focuser	10

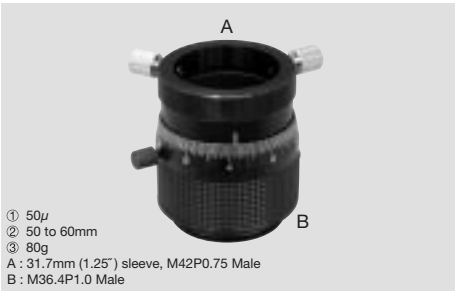
* Set Catalog

Helical Focusers

Photo: IC2377 BORG100F4 Atsuyuki Hiroi



■ [4317] Helical Focuser
BORG's most economical helical focuser and the only one with a rotating movement, model 4317 is useful as a supplemental visual focuser that provides fine adjustment for a coarse rack-and-pinion focuser, or eliminates the image shift common with standard SCT focusers. This focuser attaches in front via a metric M36.4P1.0 male thread or M35.8P0.75 female thread, but inserts directly into a 1.25" eyepiece sleeve when used with BORG adapter 7316 (which includes threads for 1.25" eyepiece filters).



■ [7315] Helical Focuser S
The deluxe version of model 4317, this non-rotating helical focuser includes index marks on the outside of the barrel, which greatly facilitate focusing when switching between CCD camera and eyepiece. In addition to visual use, this focuser also works well for fine focusing of CCD cameras, digital still cameras and video cameras. The front attachment is a metric M36.4P1.0 male thread, or a 1.25" eyepiece interface when used with adapter 7316 (which includes threads for 1.25" eyepiece filters). The rear attachment includes a T-thread for direct connection to SBIG CCD cameras.



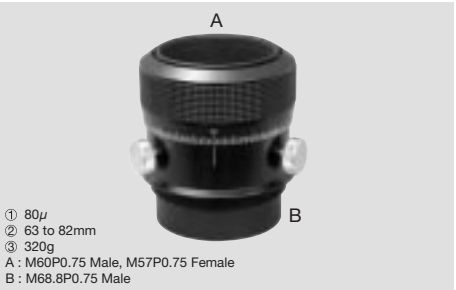
■ [7757] Low Profile M57 Helical Focuser S
BORG's shortest helical focuser, model 7757 works with a variety of adapters for a wide range of interface options. Its short length is useful in accommodating accessories with long focus requirements, such as diagonals and binoviewers. This model is recommended for visual use only as its short length does not permit a focus lock screw.



■ [7857] M57 Helical Focuser
A versatile front end interface (M57P0.75 male) allows this focuser to be connected to a wide variety of BORG accessories, including adapters (7901, 7910, 7911 and 7912) for third-party scopes, such as Vixen and Takahashi focuser sections. The internal diameter (47 mm) is wide enough to cover 35 mm format film.



■ [7835] Helical Focuser M
This focuser is provided as standard with Series 80 scopes. BORG adapter 7428 allows this focuser to be attached to an SCT.



■ [7837] Helical Focuser MDX
A heavy-duty version of the 7835 focuser with three locking screws. Operation is smoother even when supporting heavy accessories such as cameras or binoviewers.

M57 Helical Focuser DX Coming Soon



■ [8167] Medium Format Helical Focuser
This is the largest focuser in the BORG helical focuser family, fully covering up to a 6x9 format film frame. It is recommended for use with Series 115 and 140 scopes.



■ [7838] Focuser M(DX) Wheel
The wheel goes over focuser rings for smoother focus adjustments and easier gripping when using gloves.





EL Nikkor 50/2.8+[7844]+[7842]+[7843]+[5005]+
Canon EOS10D Body

M42 Helical Focuser System

BORG's M42 helical focusers let you use an M42 screw-mount lens as a macro lens with a 35mm SLR camera body. With additional parts, you can also use Nikkor EL and Leica L-mount lenses. Complete systems are detailed in the chart on page 4.

Focusers

These focusers are for an M42 screw-mount lens and a Pentax screw-mount camera body.
For use with other lenses/camera bodies, additional parts are required (see chart on page 4).



① 27-47mm
② 110g
A : M42P1.0 Female
B : M42P1.0 Male

■ [7841] M42 Helical Focuser L

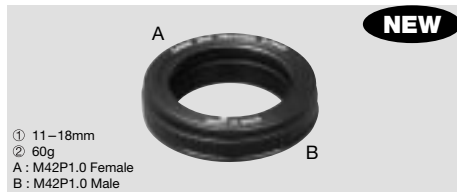
Long travel (20mm) makes this focuser great for extreme close-ups, or for long focal length lenses such as Leica L (requires adapter 7844).



① 15-25mm
② 80g
A : M42P1.0 Female
B : M42P1.0 Male

■ [7842] M42 Helical Focuser

Same as focuser 7841 but with lower profile and shorter travel (10mm).



① 11-18mm
② 60g
A : M42P1.0 Female
B : M42P1.0 Male

■ [7840] M42 Helical Focuser S

Lowest-profile M42 focuser with shortest travel (7mm).

Accessories for M42 Focusers



③ 1.5mm
A : M49.8P0.75 Male
B : M42P1.0 Female

■ [7843] M42P1 to M49.8 AD

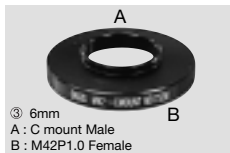
Connects focusers to BORG camera mounts [5002] to [5010].



③ 1.5mm
A : M39P1.0 Female, M42P1.0 Male
B : M42P1.0 Male

■ [7844] M42P1 to M39 AD

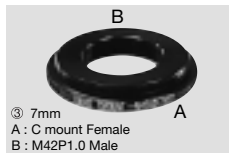
Connects Leica L-mount lenses or EL Nikkor enlarger lens to focusers.



③ 6mm
A : C mount Male
B : M42P1.0 Female

■ [7526] M42P1 to C-Mount AD

Connects a C-mount camera to an M42 lens via focusers or to BORG telescopes.



③ 7mm
A : C mount Female
B : M42P1.0 Male

■ [7527] C-Mount to M42P1 AD

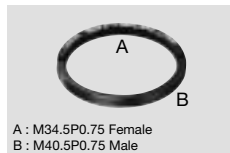
Allows you to use a C-mount lens (normally used with a video camera) with an M42P1 camera body.



A : M34.5P0.75 Male
B : M42P1.0 Male

■ [7848] M42P1 to M34.5 AD

Connects a reversed Nikkor EL 50/4 lens to focusers. (A reversed EL enlarger lens can be used as a high-resolution macro lens.)



A : M34.5P0.75 Female
B : M40.5P0.75 Male

■ [7849] M34.5 to M40.5 AD

Connects a reversed Nikkor EL lens (such as 40/4, 50/2.8, or 63/2.8) to focusers. Should be used with adapter 7848 (M42P1 to M34.5AD).



③ 6mm
A : M42P1.0 Female
B : M42P1.0 Male

■ [7858] M42 Extension Tube SSS

New shortest extension tube for focusers.



③ 10mm
A : M42P1.0 Female
B : M42P1.0 Male

■ [7845] M42 Extension Tube SS

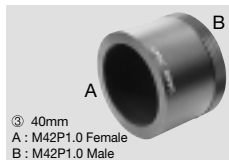
Short extension tube for focusers.



③ 20mm
A : M42P1.0 Female
B : M42P1.0 Male

■ [7846] M42 Extension Tube S

Medium extension tube for focusers.



③ 40mm
A : M42P1.0 Female
B : M42P1.0 Male

■ [7847] M42 Extension Tube M

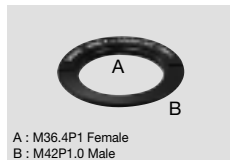
Long extension tube for focusers.



A : M39P0.75 Female
B : 1.25" (31.7mm) barrel

■ [7850] M39 to 1.25" AD

Allows you to attach Leica or Nikkor EL lenses to eyepiece focusers such as 4317 and 7315.



A : M36.4P1 Female
B : M42P1.0 Male

■ [7851] M36.4 to M42P1 AD

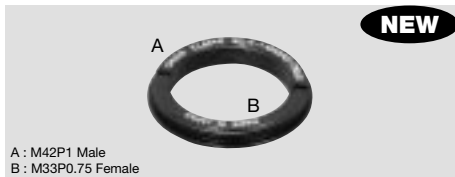
Converts front end of eyepiece focusers 4317 and 7315 to M42 P1.0 male thread.



A : M42P1.0 Female
B : M39P1.0 Male

■ [7852] M42P1 to M39 AD-II

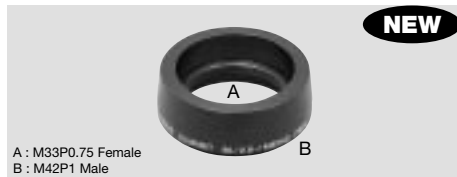
Allows Leica L-mount camera body to be attached to M42 lenses.



A : M42P1 Male
B : M33P0.75 Female

■ [7853] Elmar 90/4 to M42 AD

Elmar 90/4 lens adapter.



A : M33P0.75 Female
B : M42P1 Male

■ [7854] Elmarit 90/2.8 to M42 AD

Elmarit 90/2.8 lens adapter.

①Length ②Weight ③Light path

M42 Helical Focuser System

Configuration 1 Using Leica Elmarit 90/2.8 lens with 35mm SLR camera



The M42 system lets you use Leica's popular Elmarit 90/2.8 lens with a 35mm camera to take shots from 1m to infinity.

Configuration:
Nikon body + 5003 + 7843 + 7842 + 7854 + Elmarit90/2.8 front lens

Configuration 2 Using EL Nikkor high-resolution lens as close-up lens



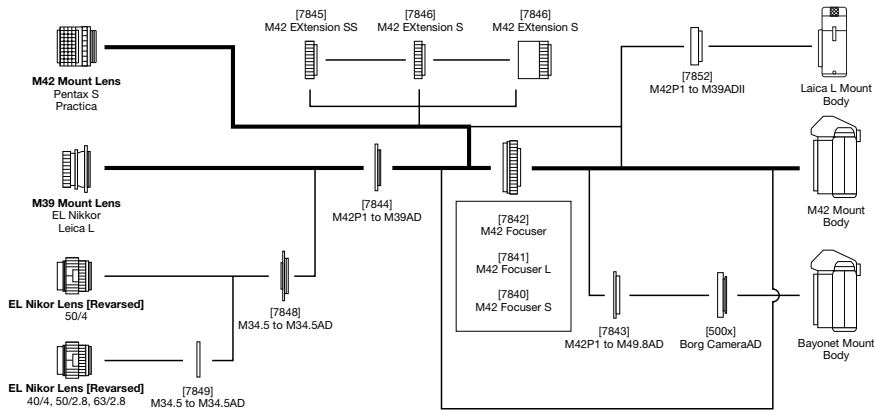
The M42 system turns a non-focusing EL Nikkor lens into a high-resolution close-up lens with precise focus adjustment. You can also attach a reversed EL Nikkor 40/4 or 63/2.8 lens by adding BORG parts 7848 + 7849.

Configuration:
Nikon body + 5003 + 7843 + 7842 + 7844 + EL Nikkor lens

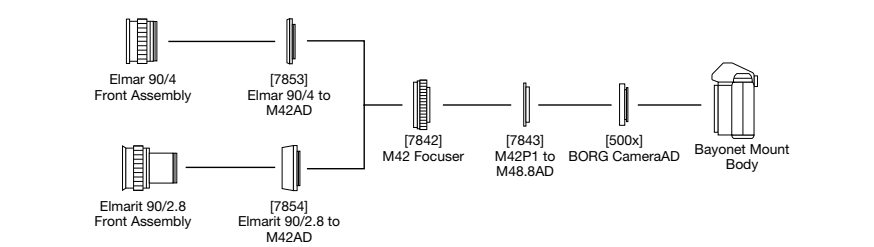
Key Features of the M42 Helical Focuser System

- M42 screw mount lens creates close-up images with bayonet interfaced 35mm SLR cameras.
- With M42P1 to M39 AD [7844], Leica Lens achieves close-up images with 35mm SLR cameras.
- With M42P1 to M39 AD [7844], Leica Elmar 50mm and 90mm lenses achieve close-up images.
- M42P1 to M39 AD [7844] turns EL Nikkor lens into close-up lens with 35mm SLR cameras.
- 90mm/105mm/135mm enlarger lenses used with M42P1 to M39 AD [7844] + M42 Helical focuser S [7840] + M42 mount SLR camera gives focus range of macro to infinity.
- With M42P1 to M34.5 AD [7848] and M34.5 to M40.5 AD [7849], reversed 40/50/63mm enlarger lenses work as 1x to 5x macro lenses.

M42 Helical Focuser System Chart



Elmar & Elmarit System Chart



SLR Camera Mount



These camera mounts allow the M42 helical focusers on page 3 to be used with non-M42 SLR camera bodies.

Part#	Description
[5002]	Pentax K
[5003]	Nikon
[5004]	Canon FD
[5005]	Canon EOS
[5006]	Minolta MD
[5007]	Minolta α
[5008]	Olympus
[5009]	Yashica / Contax
[5010]	Olympus E-1

(See page 7 for detailed descriptions of these camera mounts.)

Go Digital with Digi-BORG

Digital Cameras are more affordable, easier to use, and have better image quality than ever before. These accessories allow most popular digital imaging equipment to be used with BORG scopes.



■ [7410] SD-1X 1.25" Eyepiece Projection Adapter

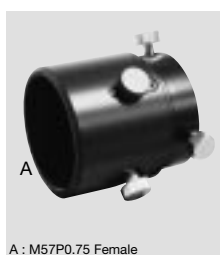
This versatile adapter lets you attach a digital still camera, digital SLR camera, digital video camera, or film-based SLR camera to a BORG scope. It consists of two sections: the "A" section that holds 1.25" eyepiece, and the "B" section that connects to the camera (via an adapter ring, 7401-7408). Special features include:

- * Two-piece construction allows easy switching between visual observing and imaging
- * Rotating design allows adjustment of camera orientation
- * Adjustable overall length (18mm total travel) lets you vary the eyepiece-camera distance during afocal (eyepiece projection) imaging, and provides enlarging capability when using an SLR (without a camera lens)
- * Supports a wide range of telescopes and cameras (using optional BORG accessories)
- * Can hold long eyepieces with optional extension tube



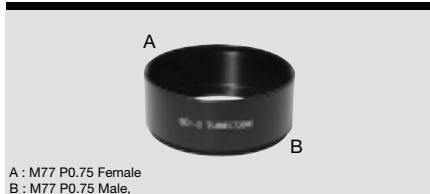
■ [74101] SD-1X(A)

Section A of SD-1X (eyepiece holder). With multiple 74101s, you can quickly switch a camera from one telescope to another.



■ [74102] SD-1X(B)

Section B of SD-1X (camera adapter). With multiple 74102s, you can quickly switch between multiple cameras on one telescope.



■ [7398] Extension Tube for SD-2X

Allows you to use SD-2X with eyepieces that have a wide "head."



■ [7395] SD-2X 2" Eyepiece Projection Adapter

This 2" version of the SD-1X adapter lets you attach a digital still camera, digital SLR camera, digital video camera, or film-based SLR camera to a BORG scope. It consists of two sections: the "A" section that holds the eyepiece, and the "B" section that connects to the camera (via an adapter ring, 7401-7408). Special features include:

- * First commercially available 2" adapter
- * Allows to use 4801 for erecting image
- * Two-piece construction allows easy switching between visual observing and imaging
- * Rotating design allows adjustment of camera orientation
- * Adjustable overall length (18mm total travel) lets you vary the eyepiece-camera distance during afocal (eyepiece projection) imaging, and provides enlarging capability when using an SLR (without a camera lens)
- * Supports a wide range of telescopes and cameras (using optional Borg accessories)
- * Can hold long eyepieces with optional extension tube



■ [73951] SD-2X(A)

Section A of SD-2X (eyepiece holder). With multiple 73951s, you can quickly switch a camera from one telescope to another.



■ [73952] SD-2X(B)

Section B of SD-2X (camera adapter). With multiple 73952s, you can quickly switch between multiple cameras on one telescope.

Adapter Rings for Digital Camera / Video



■ [7401] M57 to M28AD

Adapter for 28mm diameter threaded camera.



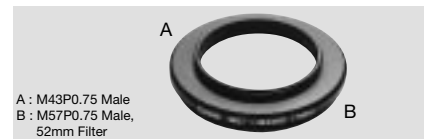
■ [7402] M57 to M30AD

Adapter for 30mm diameter threaded camera.



■ [7403] M57 to M37AD

Adapter for 37mm diameter threaded camera.



■ [7404] M57 to M43AD

Adapter for 43mm diameter threaded camera.



■ [7408] M57 to M49AD

Adapter for 49mm diameter threaded camera.



■ [7405] M57 to M52AD

Adapter for 52mm diameter threaded camera.



■ [7406] M57 to M55AD

Adapter for 55mm diameter threaded camera.



■ [7407] M57 to M58

Adapter for 58mm diameter threaded camera

Eyepiece Projection Adapters

Compact Digital Camera

BORG76EDSWII+
[7509]+[7410]+[7401]+
Nikon COOLPIX990

A digital camera paired with a BORG scope is called a **Digi-BORG**. A Digi-BORG system uses BORG's SD-1X or SD-2X eyepiece projection adapter. These extremely versatile adapters allow you to use virtually any type of camera – 35mm film SLRs, digital SLRs, compact digital cameras, and video cameras – and accept all popular eyepiece sizes up to 2". They also let you quickly change between visual use and imaging.

Video Camera

BORG76ED+[7509]+[7410]+[7405]+
Sony CCDTRV900

Adapter Rings for Digital Camera/Video		
Part #	Description	Cameras
7401	M57 to M28AD	Nikon Coolpix800, 900, 910, 990, 4500 Coolpix 880 with Nikon UR-E2 Coolpix 885 with Nikon UR-E4 Coolpix 5000 with Nikon UR-E6
7402	M57 to M30AD	Sony PC1/2/3/5 Sony TRV-8K/10/18k/22k/27/33k
7403	M57 to M37AD	Sony DSC-S50/S30/P50 Sony DCR/TRV Series (TRV8K/10: 7402, TRV900: 7405) Panasonic NV-GX7K Panasonic NV-GS5K with Kenko 30.5mm to 37mm AD JVC GR-DVL7/DVL700 Sharp VL-MR1 Canon Powershot 350 with a ring of 21mm to 37mm
7404	M57 to M43AD	Olympus CAMEDIA series with Olympus CLA-1 Olympus 1000L/1400L/1400XL/2500L Casio QV2800SX/8000SX Casio QV-2300UX/2400UX with Casio LU-8A Canon G2 with Hakuba 46.5mm to 43mm adapter Panasonic NV-DJ100
7408	M57 to M49AD	Olympus E-100RS, C-2100UZ Minoita Dimage 7/7V/7Hi
7405	M57 to M52AD	Sony VX-1/700/1000/9000, TRV900, Sony TR1000/2000/3000/3300 Olympus C-2100UZ/E-100 with Kenko 49mm to 52mm AD Canon Powershot A40 with Canon LA-DC52B Sony DSC-S70/75/85 with VDA-S70 Sony F505/F505V, FD91/FD95/CD1000
7406	M57 to M55AD	Fuji FinePix 4900Z/6900Z with Fuji AR-FX9 Olympus C750UZ/C-740UZ/C-730UZ/C-720UZ/C-700UZ with CLA-4
7407	M57 to M58AD	Canon Powershot G1/G3/G5 Casio QV-3500EX, QV4000 with Casio LU-35A Sony VX2000/DSC-V1/F717/F707

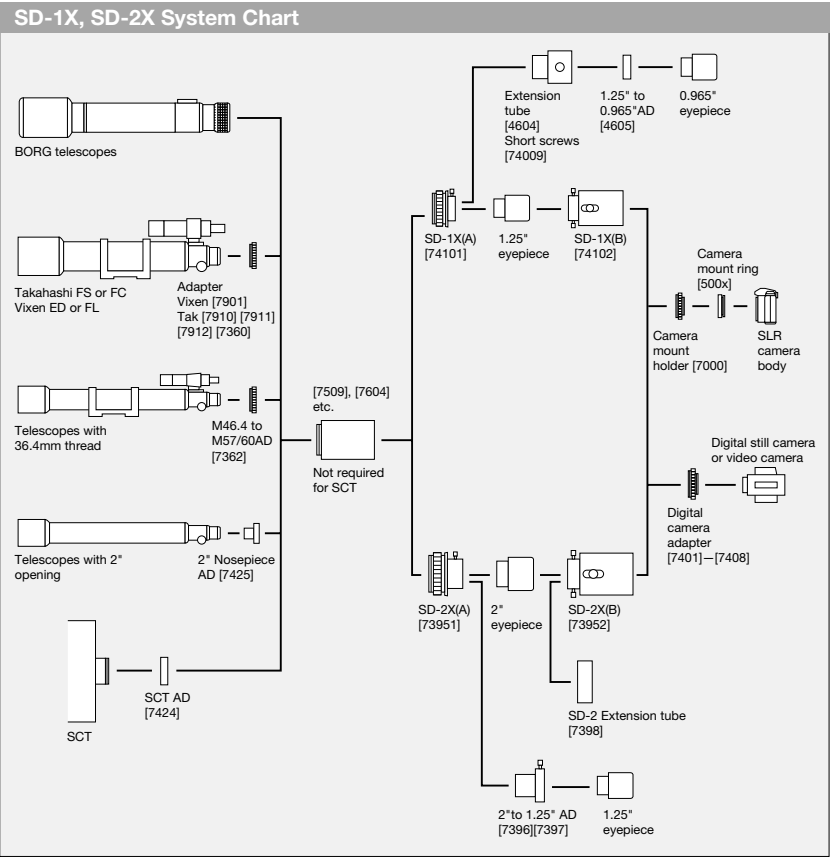
Telescope adapters		
Part #	Description	Telescopes
7424	SCT to M57/60AD	Meade LX200, LX90; Nexstar 4GT, 5, 8, 11; C-5, -8, -9, -11, etc.
7910	M47 to M57/60AD	Takahashi FC50, 60
7911	M56 to M57/60AD	Takahashi FC76, FS78
7912	M72 to M57/60AD	M60 to M57/60AD
7901	M60 to M57/60AD	Takahashi MT160/200, Vixen ED/FL, VISAC/RS200SS, etc.
7360	M43P0.75 to M57/60AD	Takahashi Sky 90,MT100,130,TS160,TS80,90
7362	M36.4 to M57/60AD	Any telescope with M36.4 thread
7425	2" Nosepiece Adapter	Any telescope with 2" opening
7356	1.25" Nosepiece Adapter	Any telescope with 1.25" opening

Digital SLRs

BORG76ED+[7509]+[7410]+[7000]+[5005]+
Canon EOS10D

Film SLRs

BORG76ED+[7509]+[7410]+[7000]+[5003]+
Nikon FM





BORG76ED OTA[6077]
Tube Holder[5501]+
Camera Mount Holder M[7000]+
Nikon Adapter[5003]+
Nikon Body

Camera Mounts



A : M49.8P0.74 Male
B : M57 P0.75 Male, M47P0.75 Female

■ [7000] 35mm Camera Mount Holder

Connects 35mm Camera Mounts 5001-5009 to BORG telescopes. Requires Camera Mount Holder 5000 when mounted behind turret eye-piece holder 1401.



A : M70P0.75 Female
B : M60P0.75 Male, M57P0.75 Female, M60P0.75 Female (reversed)

■ [7267] Multi 6x7 Camera Mount

Allows you to use a Pentax 6x7 body with most BORG telescopes. Built-in camera rotating function. The front end can also be reversed.



A : Pentax 6x7 bayonet, M70P0.75 Female
B : M95 taper, M89P1 Female

■ [8567] Pentax 6x7 Camera Mount

Used to attach a Pentax 6x7 body to medium-format Helical Focuser 8167. Has internal thread for M70 adapters such as 8267 and 8645.



A : M70P0.75 Male
B : Mamiya bayonet, M60P0.75 Female

■ [8645] Mamiya 645 Camera Mount

Allows you to attach a Mamiya 645 camera body to a BORG telescope. Must be used with camera mount 7267 or 8567.



■ [5001 — 5009] SLR Camera Mount

Wider internal diameter than standard T-ring minimizes vignetting.



■ [5010] Olympus E-1 Camera Mount

Allows you to attach on Olympus E-1 camera or 4/3 format digital SLR cameras to a BORG telescope.

*Item No.	Camera Type
[5001]	Pentax S
[5002]	Pentax K
[5003]	Nikon
[5004]	Canon FD
[5005]	Canon EOS
[5006]	Minolta MD
[5007]	Minolta α
[5008]	Olympus
[5009]	Yashica / Contax
[5010]	Olympus E-1

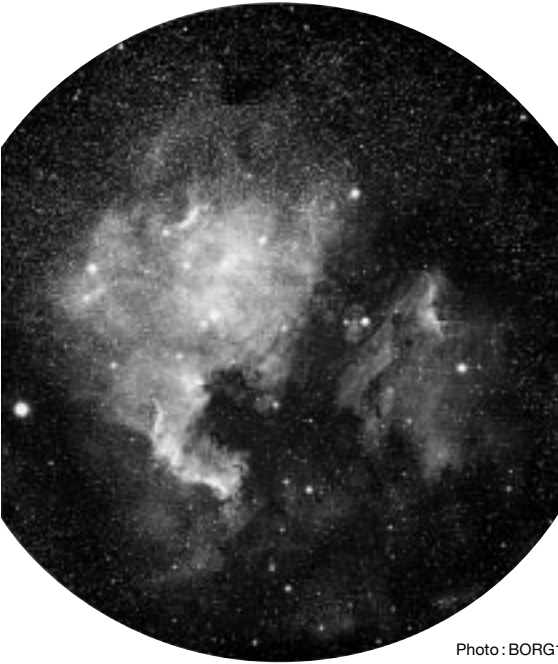


Photo : BORG100F4 Atsuyuki Hiroi

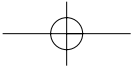


Photo: C8+[7428]+[7835]+[7822]+
36.4DP+[4713]+Eyepiece

M57/60 Extension Tubes and Holders

M57/60 Extension Tube

A : M57P0.75 Female, M60 P0.75 Male
B : M57P0.75 Male



- [7601]
Extension Tube SS
53mm internal diameter. Light weight minimizes need to rebalance telescope.
- [7602]
Extension Tube S
53mm internal diameter. Light weight minimizes need to rebalance telescope.
- [7603]
Extension Tube M
53mm internal diameter. Light weight minimizes need to rebalance telescope.
- [7604]
Extension Tube L
53mm internal diameter. Light weight minimizes need to rebalance telescope.



- [7501] **Eyepiece Holder SSII**
Unthreaded back end makes these good for heavy accessories such as 2" diagonals.



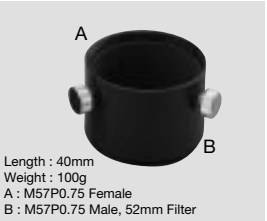
- [7504] **Eyepiece Holder SII**
Unthreaded back end makes these good for heavy accessories such as 2" diagonals.



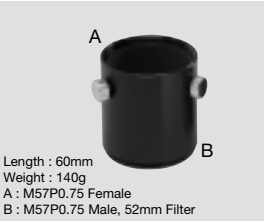
- [7506]
2" Eyepiece Holder SS
2" Eyepiece Holder with Extension Tube. Extension tube allows attachment to BORG M57 accessories. 52mm filter thread at the front end.



- [7508]
2" Eyepiece Holder S
2" Eyepiece Holder with Extension Tube. Extension tube allows attachment to BORG M57 accessories. 52mm filter thread at the front end. Comes standard with Series 80 tube assembly 6000.



- [7505]
2" Eyepiece Holder M
2" Eyepiece Holder with Extension Tube. Extension tube allows attachment to BORG M57 accessories. 52mm filter thread at the front end.



- [7509]
2" Eyepiece Holder L
2" Eyepiece Holder with Extension Tube. Extension tube allows attachment to BORG M57 accessories. 52mm filter thread at the front end. Comes standard with Series 80 tube assembly 6000.



- [7500] **M6 Cap screw**
Allows eyepiece holder 7506/7508/7505/7509 to be used as a dedicated extension tube. Replaces set screws and installs flush with outer surface. Shown installed on 7508.

Adapters for 3rd Party Scopes to BORG M57/60 Accessories



- [7901]
M60 to M57/60AD
M60 to M57/60 Adapter for Vixen ED/FL



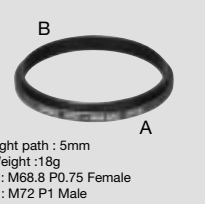
- [7910]
M47 to M57/60AD
M47 to M57/60 Adapter for Tak FC50/60



- [7911]
M56 to M57/60AD
M56 to M57/60 Adapter for Tak FC76/78



- [7912]
M72 to M57/60AD
M72 to M57/60 Adapter for Tak FC100, 100N, 125N, FS 102, FS128, FS-152, FSQ-106, TOA-130, BRC-250, F RC-300



- [7913]
M72 to M68.8AD
M72 (Takahashi) to M68.8 Adapter for the use with BORG helical focuser 7835/7837. Internal diameter is 12mm larger than 7912 for reduced vignetting.



- [7356]
1.25 to M57/60 AD
Adapter for connecting BORG parts (7410, etc) to 1.25" sleeve.



Photo : Mini BORG 45ED+[7523]+[7841]+[7525]+[7314]

M57/60 Adapters

M57/60 Adapters



Light path : 8mm
A : M43P0.75 Male
B : M57P0.75 Female, M60P0.75 Male

■ [7360] M43 P0.75 to M57/60 AD

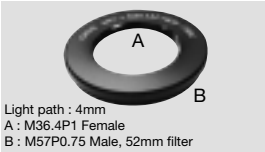
Allows you to attach M43 P0.75 thread (Takahashi) accessories to BORG M57/60 parts.



Light path : 10mm
A : M36.4P1 Male
B : M57P0.75 Female, M60P0.75

■ [7362] M36.4 to M57/60 AD

Connects BORG parts to telescopes having 36.4mm thread only.



Light path : 4mm
A : M36.4P1 Female
B : M57P0.75 Male, 52mm filter

■ [7364] M57 to M36.4 AD

Converts M57 to M36.4. Light path is 5mm shorter than 7522, allowing greater travel on inside of focus. Threaded for 52mm filters.



Light path : 4mm
A : M57P0.75 Male
B : M57P0.75 Male

■ [7457] M57 to M57 AD

Allows you to connect two parts with M57 female thread.



A : M60P0.75 Female
B : M60P0.75 Female

■ [7460] M60 to M60 AD

Used to connect two M60 parts.



Light path : 5mm
A : 2" Male
B : M57P0.75 Male, 52mm filter

■ [7502] M57 to 2" Male AD

Allows you to connect SCT accessories to BORG M57/M60 parts. Threaded for 52mm filters.



Light path : 7mm
A : M57P0.75 Female
B : M68.8P0.75 Male

■ [7507] M68.8 to M57 AD

Allows you to connect M57 parts directly to a drawtube without needing a helical focuser such as model M (7835) or MDX (7837).



Light path : 5mm
A : M57P0.75 Male, 52mm filter
B : M60P0.75 Male, 55mm filter

■ [7510] M60 to M57 AD

Allows you to convert from M60 to M57 and vice versa. Threaded for 52mm and 55mm filters.



Light path : 9mm
A : M36.4P1 Female, M42P0.75 Male
B : M57P0.75 Male, 52mm filter

■ [7522] M57 to M36.4/M42 AD

Converts M57 to M36.4 and M42P0.75 (T-thread). Lets you connect popular T-ring or T-thread accessories to BORG scopes. Threaded for 52mm filters. Included with Series 80 tube assembly 6000.



Light path : 9mm
A : M42P1 Male, M36.4P1 Female
B : M57P0.75 Male, 52mm filter

■ [7523] M57 to M42P1 AD

Converts M57 to M42P1. Use to connect M42 helical focuser 7315 to M57 accessories. Threaded for 52mm filters.

M42/43 Adapters



A : M43P0.75 Female
B : M57P0.75 Male, 49mm filter

■ [7430] M57 to M43 AD

Converts M57 to M43P0.75 (Takahashi accessories). Threaded for 49mm filters.



Light path : 6mm
A : M36.4P1 Female, M42P1 Male
B : M42P1 Female

■ [7525] M42 to M36.4 AD

Allows you to connect M36.4 parts behind M42 helical focusers such as 7841 and 7842.



Light path : 5mm
A : M57P0.75 Female, M60P0.75 Male
B : M42P1 Female

■ [7524] M42 to M57/M60 AD

Allows you to connect M57/M60 parts behind M42 helical focusers such as 7841 and 7842.



A : M36.4P1 Female, M42P0.74 Female
B : M42P0.75 Female

■ [7423] M42P0.75 to M36.4/42P0.75 AD

Converts M42P0.75 Female to M36.4/42P0.75.



A : M57P0.75 Female
B : M42P0.75 Female

■ [7528] M42P0.75 to M57 AD

Allows you to connect BORG parts to T-ring Female threads.



A : M42P1 Male
B : M42P0.75 Female

■ [7855] M42P0.75 to M42P1 AD

Converts M42P1 to M42P0.75.



A : M42P0.75 Male
B : M42P1 Female

■ [7856] M42P1 to M42P0.75 AD

Converts M42P1 to M42P0.75.

SCT Adapters



Light path : 29mm
Weight : 60g
A : 2" Female
B : M68.8P0.75 Female

■ [7428] SCT to Helical Focuser AD

Allows you to attach BORG helical focuser 7835/7837 to an SCT with a 2" threaded opening. This eliminates the mirror shift exhibited by the SCT focuser, for more reliable and accurate focusing.

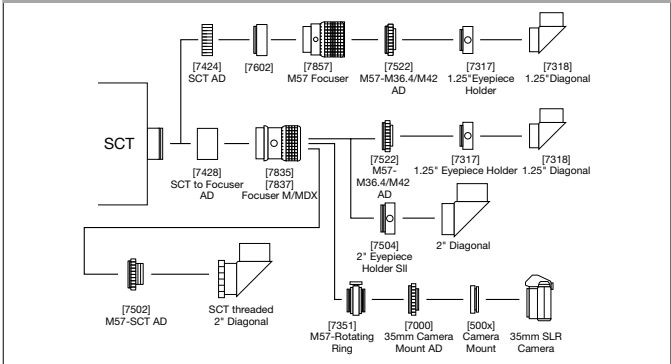


Light path : 11mm
Weight : 70g
A : 2" Female
B : M57P0.75 Female M60P0.75 Male

■ [7424] SCT to M57/60 AD

Allows you to attach BORG's wide variety of M57/60 accessories to an SCT with a 2" threaded opening.

Schmidt-Cassegrain System Chart



Eyepieces, Eyepiece Adapters

Eyepieces



Weight : 40g

■ [4013] WO13.5 13.5mm Wide Ortho

1.25" O.D., 70° apparent field of view. Included in SWII Ultra-light System. Fully coated.



Weight : 40g.

■ [4022] SWK22 22mm Super-Wide Kellner

1.25" O.D., 64° apparent field of view. Included in SWII set. Fully coated.

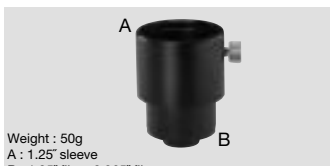


Weight : 50g

■ [4050] H50 50mm Huygens

2" O.D., 45° apparent field of view. Included in SWII set. Mono coated.

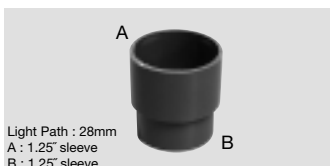
Eyepiece Adapters



Weight : 50g
A : 1.25" sleeve
B : 1.25" filter, 0.965" filter

■ [4603] 2.2x Barlow

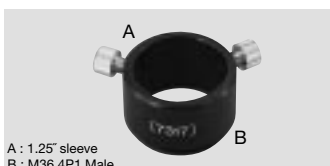
2.2x Barlow Lens. Fully multi-coated, with two lenses in one group. 1.25" and 0.965" thread allows barlow to screw directly into eyepiece like a filter.



Light Path : 28mm
A : 1.25" sleeve
B : 1.25" sleeve

■ [4611] Extension Tube

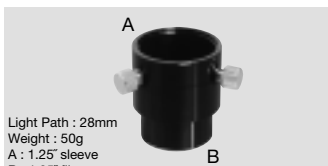
Made of light-weight plastic.



A : 1.25" sleeve
B : M36.4P1 Male

■ [7317] 1.25" Eyepiece Holder

Holds eyepiece firmly using two set screws. 20mm long.



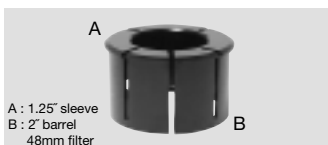
Light Path : 28mm
Weight : 50g
A : 1.25" sleeve
B : 1.25" filter

■ [4604] Metal Extension Tube



■ [7314] 1.25" Low Profile Eyepiece Holder

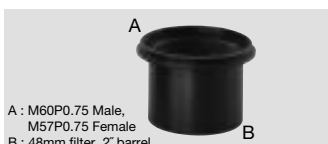
Shorter version of 7317 eyepiece holder. 10mm long.



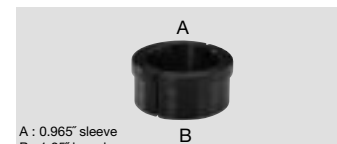
A : 1.25" sleeve
B : 2" barrel
48mm filter

■ [7396] 2" to 1.25" ADII 2" to 1.25" Low Profile AD

2" to 1.25" adapter with very low profile (2mm height). Holds eyepiece in place by compression/friction instead of a set screw. The 2" end is threaded for 48mm filters.



A : M60P0.75 Male,
M57P0.75 Female
B : 48mm filter, 2" barrel



A : 0.965" sleeve
B : 1.25" barrel

■ [4605] 1.25" to .965" (31.7mm to 24.5mm) AD

Converts 1.25" to .965" adapter.



A : M36.4P1 Female
B : 1.25" sleeve with 1.25" filter

■ [7316] 1.25" (31.7mm) to M36.4 AD

Can be used with 4317 and 7315.



A : 1.25" sleeve
B : 2" barrel
48mm filter

■ [7397] 2" to 1.25" AD

2" to 1.25" adapter with two set screws to hold eyepiece in place. 7mm light path. Diagonals and Mounts.

■ [7425] 2" Nosepiece AD (2" to M57/60)

Converts BORG M57 parts to 2" barrel opening.

Accessories



A : 48mm filter
B : M57P0.75 Female
C : M57P0.75 Male

■ [7202] M57 Drawtube

Allows 50mm focus travel.



■ [1401] Turret Eyepiece Holder

A real time-saver for visual observing, this eyepiece mount has a rotating, click-stop turret with four 1.25" eyepiece holders, and a rear-mounted 2"/1.25" holder. Lightweight construction minimizes weight on the back of the OTA, yet has plenty of stiffness to support the eyepieces. Eyepieces fit snugly in friction mounts in the turret, and in the rear by set screws. The internal mirror (for viewing with turret-mounted eyepieces) flips up for viewing through the rear holder, where a low-power eyepiece allows the scope to be used as its own finder. Requires 7836 for use with Helical Focuser M (7835). 200g.



Dimensions : 98mm x 75mm
Light Path : 10mm
Weight : 100g

■ [7320] RF-1 Focuser Base Plate

Base plate for home-made telescopes. Has two set screws and four adjustment screws to adjust the tilt of the plate. Can be used with Helical Focusers M (7835) and MDX (7837).



A : 2" Sleeve

■ [9793] FTF-15 Feather Touch Focuser

Starlight Instruments' Feather Touch Crayford focusers are available as an option for all BORG scopes from the Series 80 and up. These focusers feature an internal braking system.



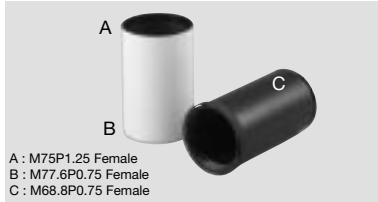
A : M60P0.75 Female

■ [7836] Helical Focuser M to Turret Holder AD

Allows turret eyepiece mount 1401 to be used with Helical Focuser M (7835), by providing M60 P0.75 female thread in front. Attaches to the mount using the set screws on the mount.

Tubes, Lens Caps, Baffles, etc.

Tubes and Drawtubes (115mm tubes are shown on page 14.)

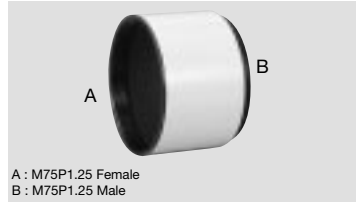


■ [7129] 124mm Tube for Series 80

This Series 80 short tube is useful in applications with increased inward focus requirements, such as binoviewers, etc. Only 129mm long, making the system 76mm shorter than the regular tube does. Comes with its own special drawtube.

■ [7130] Front Helical Focuser Adapter Set

Lets you place a focuser (7835, 7837) in front of the tube assembly. Improves overall balance-focuser's smoothness is not affected by the weight of accessories attached at the end of the scope. Good for 50ED, 76Ach and 76ED objectives (not recommended for 100 Ach and 100ED). Requires addition of 7507 at the end of the scope. Comes with 50mm long tube, M77.6 to M60 AD and M68.8 to M75 AD.



■ [7050] 50mm Tube for Series 80

Only 50mm long, this tube can be added in front of the tube assembly (6000). Helps to minimize the pull-out of a drawtube.



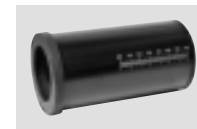
■ [7128] Mini BORG Objective Adapter (M77.6 to M57)

Allows you to attach 50ED, 76Ach and 76ED objectives to Mini BORG tube. Should be used with Series 80 regular tube.



■ [7801] M77.6 to M68.8 Adapter

Allows direct attachment of helical focuser M(7835) and MDX(7837) to a tube. Makes the system more rigid and 460g lighter by removing drawtube holder. 50mm long tube(7050) or Mini Drawtube (7201) and 2" eyepiece holder may be added for proper back focus.



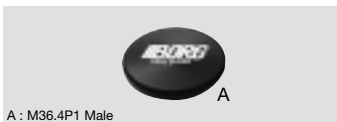
■ [7754] Drawtube DX (Indexed Drawtube)

Drawtube with index marks which are helpful for rough focusing in imaging.

Caps



■ [7081] Series 80 Metal Cap



■ [7361] M36.4P1 Metal Cap



■ [7357] M57 Metal Cap



■ [7358] Desiccant Holder

When filled with a desiccant (not included), helps to keep excess moisture out of telescope during storage.

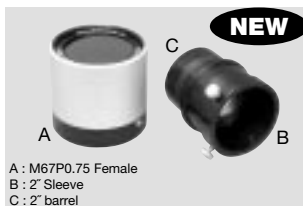
■ [5676] Front Cap for 76mm Objective

■ [5610] Front Cap for 100mm Objective

■ [5602] End Cap for Series 80 Objective Assembly

■ [5612] Front Cap for 125ED Objective and 100 6x9 Hood Baffles

Solar Filters



■ [9792] Solar Filter (Available in Asia)

Clear Aperture: 50mm,
Operating Wavelength: 656.28nm(H-alpha),
Coatings: Hard multi-layer dielectric reflector, Hard multi-layer dielectric anti reflector all surfaces
Filter Bandwidth: *0.7Å with fine tune tilt adjustment mechanism
Thermal Stability: <1Å / 200°C

The Solarscope Solar Filter is a 50mm unobstructed aperture Fabry Perot filter. When the filter is mounted onto the front of the user's telescope with the use of an adapter plate, it provides safe observation of the entire solar disc in hydrogen-alpha light. With a transmission bandwidth of 0.7 angstrom the filter provides superb views of prominences and surface detail such as plages, flares, filaments, granulation, etc.

Baffles



■ [4053] Visual Baffle for Helical Focuser

Improves contrast. Mounts 25mm – 32mm in front (objective side) of helical focuser M/ MDX (7835/7837). For greater effect, use with 4054.
45mm ID, 57mm OD, 1mm thick



■ [4054] Visual Baffle for 2" Holder

improves contrast. Mounts on objective side of BORG's 2" eyepiece holders. For greater effect, use with 4053.
36mm ID, 52mm OD, 2mm thick



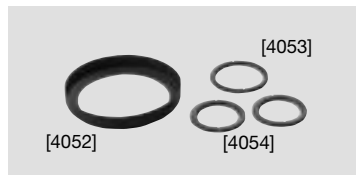
■ [4048] Photographic Aperture Stop Insert, 100F4 to F4.8

For medium or large format very wide-field photography, optimizes for an evenly illuminated wide field. Friction fits into main tube body.
80mm ID, 109mm OD, 2mm thick



■ [4049] Photographic Aperture Stop Insert, 125F4 to F5

For medium or large format very wide-field photography, optimizes for an evenly illuminated wide field. Friction fits into main tube body.
63mm ID, 109mm OD, 2mm thick



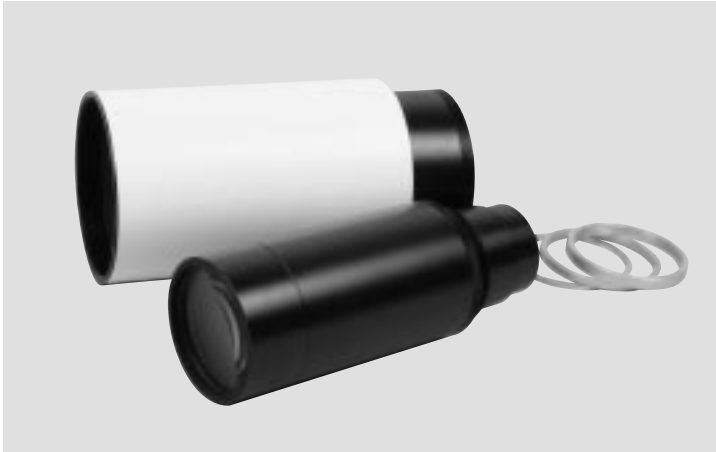
■ [4051] Visual Baffle Set for Series 115 scope

Consists of 1 x 4052, 1 x 4053 and 2 x 4054 (4 pieces total).

■ [4052] Visual Baffle for Series 115 Tubes

Correction Lenses, Mounting Rings

Correction Lenses



■ [7004] ED Super Reducer DG/F4

Four-element apochromatic super reducer set for Series 80 scopes. This reducer converts any Series 80 scope into a fast F4 system (F6.2 for 50ED). Unlike many reducers on the market, which typically objective's performance, the ED F4 reducer includes an ED element to optimize performance at F4 for modern, fine-pixel electronic sensors, in addition to reducing the focal length and flattening the field.

Set comes with

4-elements lens assembly x 1
129mm long tube x 1
Drawtube x 1
Spacer Ring x 3

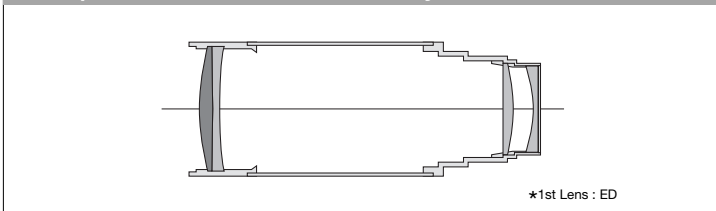
Effective F.L./F ratio

f308mmF4 in 77ED
f404mmF4 in 101ED

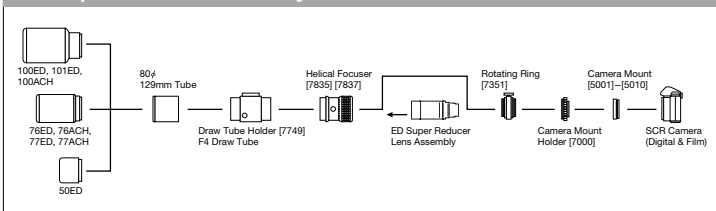
Objective compatibility

50ED, 76Ach, 77Ach,
76ED, 77ED, 100Ach,
100ED and 101ED

ED Super Reducer DG/F4 Lens Assembly

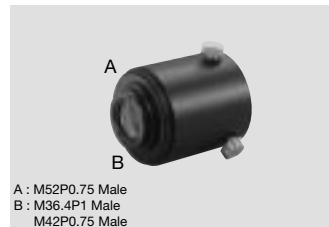


ED Super Reducer DG/F4 System Chart



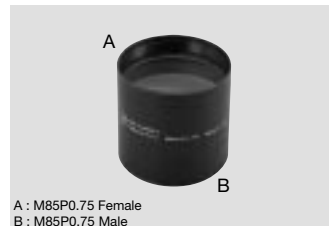
■ [8045] Super Reducer 6x7

0.625x reducer lens for Borg 125ED F6.4. Allows shorter exposures and achieves pin-point star images across entire medium-format film frame. Four fully multi-coated elements in four groups; two of these groups install in front of the focuser, the other two in the rear of the focuser. Lens set comes with 208mm long tube.



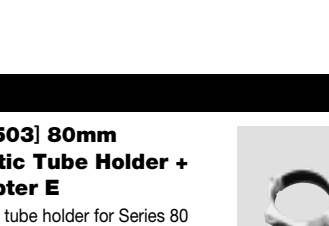
■ [7784] 35mm 1.04x Multi-flattener

35mm format field flattener reduces coma aberration. For use with 450-1200mm focal length scopes. Fully multi-coated. 300g.



■ [7786] 3x Teleconverter

High quality 3x teleconverter. Useful for lunar or solar shots, etc. Reduces coma aberration at each corner. 40g.



■ [8670] 6x7 Multi-flattener

6x7-format field flattener lens for Pentax 6x7 camera mount 8567. Corrects optical aberrations out to image corners. Configurable for objective focal length. Fully multi-coated. 400g.



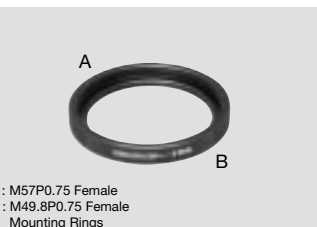
■ [7920] M49.8 to M57 Adapter

This adapter, used with focal reducers 7004, 7784, and 7885, lets you use a greater variety of digital imaging equipment with your BORG scope, by converting to the M57 thread size found on many BORG parts. (For example, to use an SBIG CCD camera, the setup would be: Telescope + 7885 + 7920 + 7522 + SBIG)



■ [7885] Reducer 0.85x DG

0.85x Focal Reducer optimized for digital imagers. Total weight 65g.



■ [7080] Tube Band M

Metal pair of tube rings to hold Series 80 telescopes. 420g.

Mounting Rings



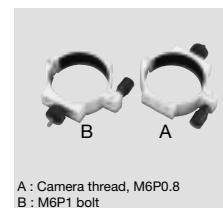
■ [5501] 80mm Plastic Tube Holder

Plastic tube holder attaches Series 80 telescopes to camera tripod, etc. 1/4"-20 female thread at the bottom and male at the top. 120g.



■ [5503] 80mm Plastic Tube Holder + Adapter E

Plastic tube holder for Series 80 scopes with BORG fork mount 3101. 1/4"-20 female thread at the bottom and male at the top. 140g.



■ [7080] Tube Band M

Metal pair of tube rings to hold Series 80 telescopes. 420g.

Fork Mounts, Finders

Fork Mounts & Parts

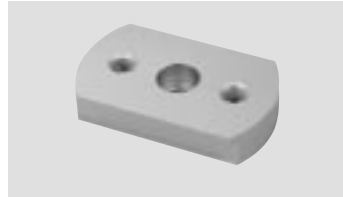


■ [3101] Fork Mount

Fork mount with 3/8"-16 thread hole at the bottom. Used with 5503 or 3102. Single-arm compact fork mount head may be used in alt-az or equatorial orientation with lightweight scopes such as Borg Series 80 or Mini Borg scopes. Use the Series 80 tube holder and adapter E set (5503) or universal attachment block (3102) for direct attachment of a scope with 1/4"-20 screws or Takahashi tube holders.

The provided 3/8"-16 hole allows mounting on standard photographic tripods. The fork head may also be mounted on BORG's ultra-light SWII tripod using a special adapter, as well as on 1/4"-20 tripods using a 3rd-party adapter available at camera stores.

The mount may be moved rapidly by releasing the light gray clutch knobs or by turning the dark gray slow motion knobs. The slow motion shafts also allow the attachment of user-supplied flex shafts. When used in equatorial orientation, a latitude scale aids in setting the fork tilt.



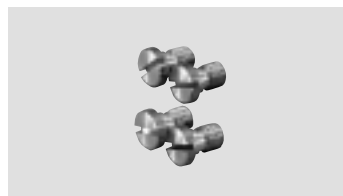
■ [3102] Fork Mount Universal Attachment Block

This universal tube-holder adapter plate allows use of a BORG lightweight single-arm fork mount (3101) with a Mini BORG, Takahashi tube holders, camera ball head and cameras. Includes center hole for a 1/4"-20 standard camera screw as well as metric M8 threaded holes spaced 35mm apart to accommodate Takahashi tube holders.



■ [5502] Adapter E

Additional part to convert 5501 to 5503. It is user-installable.



■ [5504] Takahashi Mount Screw Set

Set of four screws to attach 5501 onto Takahashi mount.



■ [3104] Balance Plate

Allows you to adjust OTA balance when tube holder does not provide sufficient range of adjustment to achieve proper balance. Comes with an allen wrench and screws. 10cm (4") long.

Finder Scopes



■ [7752] 7x50 Finder

High quality finder scope with 7x magnification and 50mm aperture. 6-degree actual field of view with cross-hair. Focus adjustable at the eyepiece.



■ [7756] 7x50 Finder Bracket

Finder bracket for 7752. Dovetail shape allows quick release. 55mm internal diameter.



■ [7756] Dovetail Base

Dovetail base for 7756. Also compatible with Vixen Red-Dot Finder.



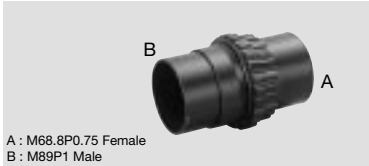
■ [0034] 6x30 Finder

Finder scope with 6x magnification and 30mm aperture. 7-degree actual field of view with cross-hair.



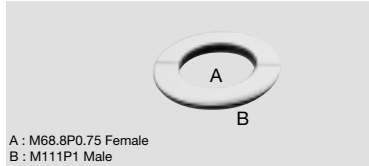
Miscellaneous Accessories

Series 115 Adapters



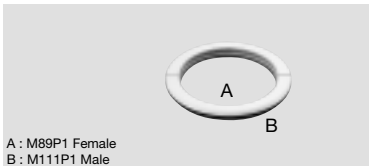
■ [8317] Visual Draw Tube

Allows quick and wide focus adjustment for Series 115 and 140 scopes. Helical focuser M/MDX can be attached. Has 77mm focus travel. Extra light path is 20mm. 380g.



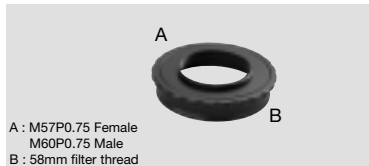
■ [8116] M111 to M68.8 Adapter

Connects helical focuser M/MDX directly to Series 115 tubes. Extra light path is 5mm. Creates 60mm additional back focus. Useful with accessories that need plenty of back focus (binoviewer, etc.). 100g.



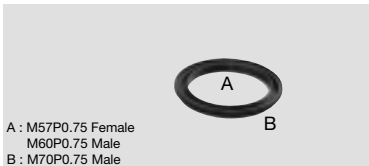
■ [8119] M111 to M89 Adapter

Connects medium format focuser 8167 and visual drawtube 8317, etc., directly to a Series 115 tube. Creates 30mm additional back focus. 90g.



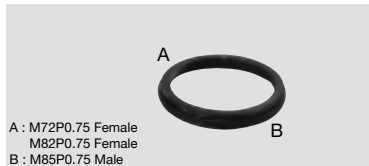
■ [8035] 35mm Camera AD II

Connects M57/M60 parts to medium-format helical focuser 8167. Extra light path 8mm. 120g.



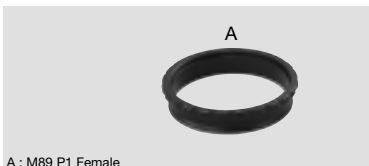
■ [8267] 6x7 Multi Adapter

Connects M57/60 parts behind Pentax 6x7 camera mount 8567 and multi 6x7 camera mount 7267.



■ [8782] Filter Ring 72-82mm

Attaches 72mm and 82mm filter onto multi flattener 8670.



■ [8916] Visual Draw Tube Attachment

Attaches visual drawtube 8317 behind medium-format helical focuser 8167.



■ [8750] 115 Tube Finder Base

Series 115 and 140 finder base tube to hold BORG 7x50 finder 7750 and Takahashi 7x50. Extra light path 35mm. 410g.



115mm Tubes

■ [8004] 115 Tube 208mm

BORG 125ED F4 tube. 208mm long.

■ [8149] 115 Tube 149mm

BORG 100ED (101ED) F4 tube. 149mm long.

■ [8335] 115 Tube 335mm

BORG 100ED (101ED) F6.4 tube. 335mm long.

■ [8380] 115 Tube 380mm

BORG 125ED F6.4 tube. 380mm long.

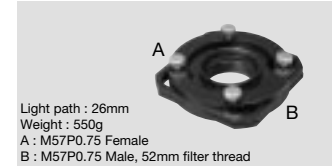
(Series 80 tube accessories are shown on page 11.)

Miscellaneous Accessories



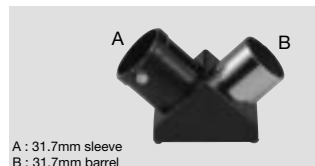
■ [4801] Erecting Prism

Compact roof prism design. Requires 55mm back focus. Light path diameter 18mm. 140g.

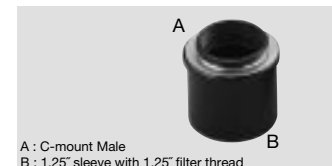


■ [7200] Super Image Shift

Allows you to locate a guide star while the guide scope is fixed. 50mm diameter field of view. 4 lock screws. Threaded for 52mm filters.



■ [7318] 1.25" Prism Diagonal



■ [7511] 1.25" to C Mount Adapter



■ [8069] 100 6x9 Hood

100ED F4 medium format hood. Used with 125ED front cap (5612).



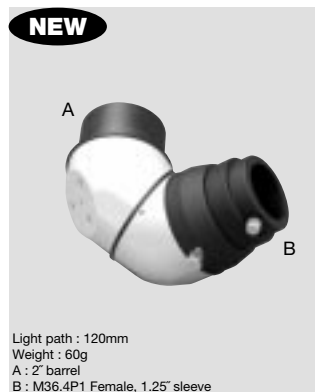
■ [7351] M57 Rotating Ring 6

Rotating ring with M57 threads and 47mm internal diameter.



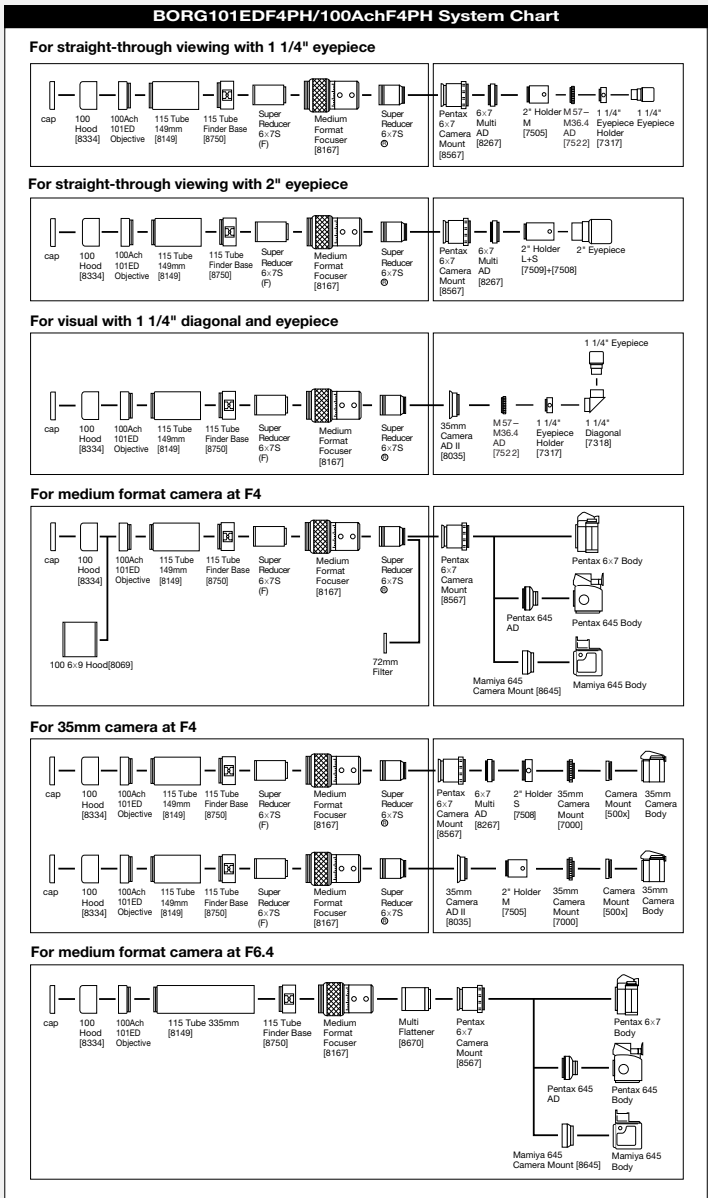
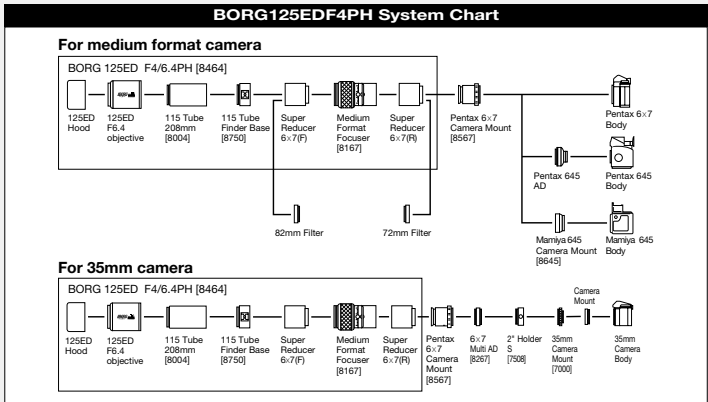
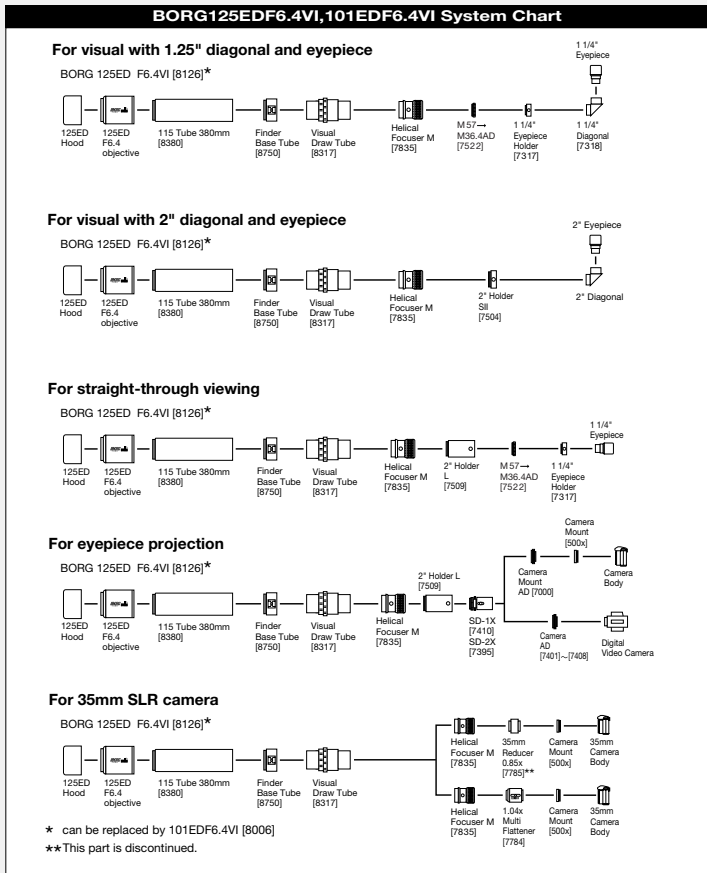
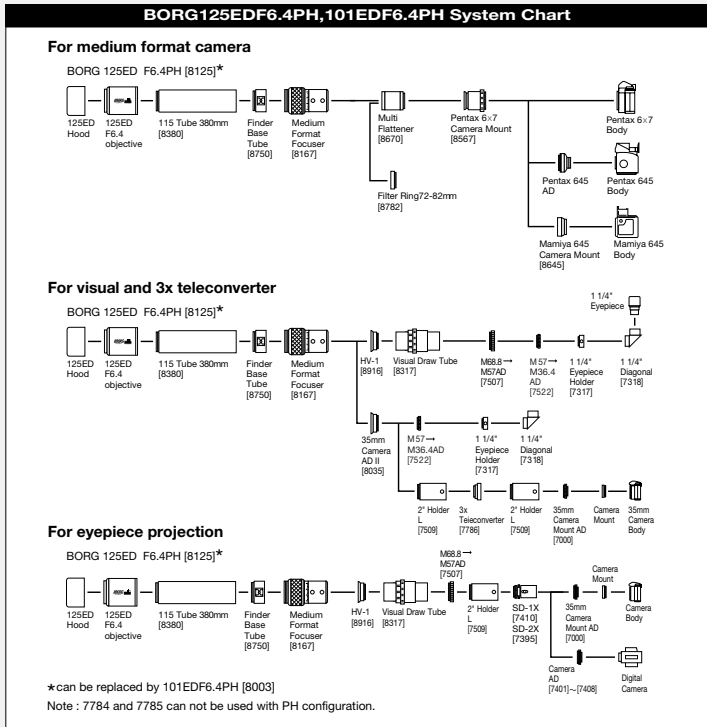
■ [5403] Carrying Case P

Carrying case with two compartments inside for separate storage of telescope and tripod. 61cm long.



■ [9791] Matsumoto Erect Image Mirror Diagonal (EMS-S)

This is a unique mirror diagonal which utilizes two mirrors to create a non-inverted image at the output. 120mm of backfocus is required. The diagonal interfaces with a 2" sleeve on the telescope end, and 1-1/4" eyepieces on the back end. 48mm filters are accommodated under the black eyepiece holder section of the diagonal, and a 36.4mm thread allows an accessory such as a BORG mini helical focuser to be added at the eyepiece end.



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http://www.astrohutech.com E-mail : info@astrohutech.com

Regional Distributor



Caution

Do not look directly at the sun through the telescope or its finder. It will result in blindness.

Please read the "Safety Instructions" carefully for proper use. Improper use of the product could lead to bodily injuries or physical damage.