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Defence & Security
Products Division

Military Binoculars

The Francis Barker Defence Products Division of Pyser-SGI has been manufacturing and supplying quality, precision-engineered optical products for over 50 years. Throughout this time binoculars have been supplied to armed forces worldwide, resulting in a committed long-term supplier/customer relationship based upon a comprehensive through-life-cycle support. This success has been achieved by supplying a product with superb fully coated optics and prisms for the brightest possible image and a wide, clear field of view, housed in a precision-cast, finely machined, ultra-light anodised alloy body.

All the binoculars have robust rubber armouring to protect against the hardest environmental conditions, are filled with dry nitrogen to prevent fogging and are protected by objective lens and eyepiece covers against dirt. Naturally, all binoculars are totally immersion proof and have large exit pupils for superb low light usage. Classic style models have individual eyepiece focussing whereas compact models have centre focus. Foldback rubber or pop-up eyecups are standard for ease of use by wearers of spectacles, sunglasses or goggles. Each binocular is supplied with a comfortable wide fabric neck strap and in a case with neck strap.
The 8x42RM is the UK Armed Forces standard issue binocular.

6x30R

7x50R

10x50R

7x50RC

E8x42RM
UK Armed Forces Standard Issue Binocular

Military Binoculars
Technical Specifications

Model	6x30R	7x50R	10x50R	7x50RC	E8x42RM*
Style	Classic	Classic	Classic	Classic	Roof Prism
Part No.	102-634	102-176	102-106	102-271	102-112
NATO Stock Number	6650-99-458-7548	6650-99-862-0115	6650-99-367-1837	6650-99-915-4713	6650-99-226-0668
Magnification	6x	7x	10x	7x	8x
Objective lens dia (mm)	30	50	50	50	42
Field of view in degrees	8.0	7.5	6.0	7.0	6.2
Field of view in metres	140 at 1000m	131 at 1000m	105 at 1000m	122 at 1000m	108 at 1000m
Eye relief distance (mm)	16.5	18	12	18	19
Exit pupil diameter (mm)	5.0	7.1	5.0	7.1	5.2
Minimum close focus distance (m)	9	18	14	18	3
Eyepiece lens diameter (mm)	15	16	16	16	20
Individual eyepiece dioptal focusing	Yes	Yes	Yes	Yes	Yes*
Interpupillary adjustment (mm)	58 to 72	58 to 72	58 to 72	58 to 72	57 to 73
Mils reticle/Graticule	V +50 to -50 Mils	V +50 to -50 Mils	V +40 to -40 Mils	V +80 to 0 Mils	
	H +50 to -50 Mils	H +50 to -50 Mils	H +40 to -40 Mils	H +40 to -40 Mils	H +40 to -40 Mils
	In 5 Mil Divisions	In 5 Mil Divisions	In 5 Mil Divisions	In 5 Mil Divisions	In 10 Mil Divisions
Optical coating	MgF2 fully coated	MgF2 fully coated	MgF2 fully coated	MgF2 fully coated	MgF2 fully coated
Prisms	Bak-4	Bak-4	Bak-4	Bak-4	Bak-4
Relative Brightness	25	50.4	25	50.4	27
Length (mm)	128	177	177	177	139
Width (Open)	187	205	205	205	125
Width (Closed)	170	184	184	184	108
Depth (mm)	66	72	72	85	53
Weight (grams)	850	1170	1170	1170	635
Construction of body	Aluminium diecast	Aluminium diecast	Aluminium diecast	Aluminium diecast	Aluminium diecast
Waterproof rating	1m for 5min.	1m for 5min.	1m for 5min.	1m for 5min.	1m for 5min.
Nitrogen filled, repurgeable	Yes	Yes	Yes	Yes	Yes
Colour	Black	Black	Black	Black	Black
Case	Hard Black	Hard Black	Hard Black	Hard black	Soft Black

*One Eyepiece Dioptre Adjustment

Fitted as standard is a precise, clear reticle/graticule calibrated vertically and horizontally in 5 Mil divisions for accurate range finding. The 7x50RC model also contains an in-built liquid filled compass calibrated in degrees, the bearing being displayed clearly in the field of view at all times.

Available to special order (minimum quantities may apply):

- 7x35R and 16x35R models.
- In-built laser protection filters are available for all models in ISK-167 laser protection specification.
- Green colour in place of black for both binoculars and hard cases.
- Soft pouches including DPM fabric in place of hard or DPM fabric in place of soft black cases.

Visit our website on www.pyser-sgi.com for further information on the complete range of products available from Pyser-SGI Limited.

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All goods are supplied under our standard conditions of trade.We reserve the right to amend design and specifications without prior notification

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