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Defence & Security Products Division

**INCLUDING
NEW FC
RANGE**
NO EXPORT
LICENCE
NEEDED

PNG-M

The world's smallest and lightest night vision goggle

NSN 5855 99 671 5304

The Pyser-SGI PNG-M night vision goggle system is a compact ultra lightweight, high resolution twin eyepiece device incorporating superior optics. The unit is supplied with a head mount complete with auto off / auto on flip up capability and is easy to use, requiring only one standard "AA" size battery. The PNG-M series of goggles meets the night vision needs of military and law enforcement forces around the globe, utilises the very latest in tube technology and is available with a wide range of accessories. Now available with tubes including FC (export licence exempt**) as well as standard licence HD High Definition, XD-4 and XR5.

XD-4 and XR5 models can also be supplied with Auto Gating and FC, HD, XD-4 and XR5 are available with green or black and white tubes.

**Does not require UK Export Licence but not available to countries on UN/EU/UK Embargo/Sanctions Lists.



- Multi element all-glass coated optics
- Waterproof 20m for 1 hour
- Field of view 40°
- Focus range 0.25m - ∞
- Magnification 1x
- Optional 3x and 5x magnification
- Compact and reliable
- Flip-up/auto switch off
- Flip-down/auto switch on, with no reset needed
- Built in powerful IR illuminator
- Eye relief 27mm
- Dioptre +6 to -11
- Interpupillary adjustment
- Battery life 40 hours (without IR)
- Power supply 1 x "AA" size
- Size 137mm x 51mm x 142mm
- Weight 425g including battery
- Yellow LED low battery indicator in eyepiece
- Red LED IR-On indicator in eyepiece
- Bright light and daylight protection

PNG-M Night Vision Goggles

Technical Specifications		Components	Quantity
Magnification:	1x	PNG-M is supplied with the following	
Field of View:	40°	components:	
Focus Range:	0.25m - infinity	PNG-M Unit	1
Objective focal length	25mm	Head Harness - Flip up	1
Objective F number:	F1.19	Manual	1
Dioptric Correction:	+6 to -11	Soft Carrying Case	1
Eyeiece lens:	16mm glass aperture	AA Battery	1
Eye relief	27mm	Lanyard	1
Interpupillary adjustment:	55mm - 75mm	Instructions	1
Operating Temperature:	-45°C to +55°C		
Storage Temperature:	-51°C to +65°C		
Power Supply:	1 x "AA" Battery or "AA" size L91 Lithium or "AA" 1.2V rechargeable		
Battery Life, :	In excess of 40 hours (commercial "AA")		
Dimensions, mm:	L137mm x H51mm x W142mm		
Weight:	425g including battery and lens cap		
Waterproof:	Immersion proof 20 m 1hr, nitrogen filled		
Construction:	Moulded glass filled polymer		



150 mW IR Illuminator with quick release goggle adaptor



150 mW IR Illuminator fitted to goggle



150 mW IR Illuminator fitted to goggle with 3x lens



PNG-M can be fitted to any camcorder/camera/CCTV camera

Part No.	PNG-M Night Vision Goggles
589-100FC2	PNG-MFC lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
589-100HD*	PNG-M HD lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
589-100XD4*	PNG-M XD-4 lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
589-100XD4A*	PNG-M XD-4A (autogated tube) lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
589-100XR5*	PNG-M XR5 lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
589-100XR5A*	PNG-M XR5A (autogated tube) lightweight compact night vision goggle with 1 x magnification NSN 5855-99-671-5304
FC, HD, XD-4, XD-4A, XR5 and XR5A products are available with Green or Black and White tubes. For Black and White add W after part number eg: 589-100XD4AW has Black & White tube.	
Accessories for PNG-M	
550-006C	Replacement head harness for PNG-M Night Vision Goggle, NSN 6650-99-736-7843
550-006D	Helmet mount for PNG-M Night Vision Goggle, NSN 5340-99-260-8769
103-751M	3x magnification lens, NSN 6650-99-391-2185
103-753	5x magnification lens
550-003F	Relay lens for use with CCTV camera, NSN 5836-99-366-5780
550-007	Shuttered eyeguard, NSN 6650-99-789-6513
560-009	Sacrificial filter for objective lens, NSN 6650-99-997-5759
560-010	Anti-mist filter for eyepiece, NSN 6650-99-731-1262
589-840-4xx	Optical Modules to connect PNG-M directly to camera body
589-840-400A	Nikon photographic module
589-840-401A	Canon photographic module
589-840-305	Camcorder/camera 30.5mm adaptor, NSN 6650-99-412-0360
589-840-035	Camcorder/camera 35mm adaptor, NSN 6650-99-000-5183
589-840-040	Camcorder/camera 37mm adaptor, NSN 6650-99-595-0780
589-840-042	Camcorder/camera 49mm adaptor, NSN 6650-99-323-6896
589-840-041	Camcorder/camera 52mm adaptor, NSN 6650-99-329-3201
589-840-058	Camcorder/camera 58mm adaptor, NSN 6650-99-180-7670
589-840-072	Camcorder/camera 72mm adaptor, NSN 6650-99-297-7873 Others available on request
583-340	150mw illuminator, IR LED, wide, mid and narrow FOV, 805nm, compatible with PNG-M, NIM, PROMS and any night vision device. Effective distance up to 280 metres with Gen 2 and Gen 3 devices, NSN 5855-99-341-1382
583-340-002	IR illuminator interface adaptor, attaches illuminator to PNG-M
560-011	12v car cigarette plug/lead, 2 outputs (needs 560-012), powers PNP-M from vehicle, NSN 6150-99-343-1630
560-012	12v/1.5v plug to replace 1.5v battery and cap (two needed for PNP-M in binocular form)
560-013	Battery charger including 4 rechargeable 'AA' batteries, NSN 6130-99-899-9358
FBS-034	Small Hermetic Case, holds PNG-M in its pouch
FBS-043	Medium Hermetic Case with custom made foam cut-outs
FBS-037	Large Hermetic Case with custom made foam cut-outs, NSN 6650-99-778-3635

*Export of this product from the UK is controlled under U.K. Export Licence Regulations. All goods are supplied under our standard conditions of trade.
We reserve the right to amend design and specifications without prior notification

TUBE COMPARISON CHART				
Typical Values (Tube manufacturers' data)	FC	HD	XD-4	XR5
Sensitivity (µA/Im)	500	550	700	800
Resolution (lp/mm)	45	51	64	72
Signal to Noise ratio	19	19	23	28
Figure of Merit (FOM) Typical	855	969	1472	2016

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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