

PNG-M Night Vision Goggles

Technical Specifications	Components	Quantity
Magnification:	1x	PNG-M is supplied with the following components: PNG-M Unit 1 Head Harness - Flip up 1 Manual 1 Soft Carrying Case 1 AA Battery 1 Lanyard 1 Instructions 1
Field of View:	40°	
Focus Range:	0.25m - infinity	
Objective focal length:	25mm	
Objective F number:	F1.19	
Dioptric Correction:	+6 to -11	
Eye-piece lens:	16mm glass aperture	
Eye relief:	27mm	
Interpupillary adjustment:	55mm - 75mm	
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

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



150 mW IR Illuminator fitted to goggle

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 Optical Modules to connect PNG-M directly to a photographic camera body Short Body Module gives a circular picture on ASC-P chip nominal 24mm x 16mm Medium Body Module gives a rectangular picture on ASC-P chip nominal 24mm x 16mm Medium Body Module give a circular picture on FF chip nominal 36mm x 24mm Typical ASC-P: Canon EOS 500D, 50D, 40D, Nikon D300, D90, Pentax K7, K100 Typical FF Canon EOS 5D, 1Ds mk III, Nikon D3, D3X
589-840-400	Short Body Module for Nikon cameras
589-840-401	Short Body Module for Canon cameras
589-840-402	Short Body Module for Pentax cameras
589-840-403	Short Body Module for Minolta MD cameras
589-840-410	Medium Body Module for Nikon cameras
589-840-411	Medium Body Module for Canon cameras
589-840-412	Medium Body Module for Pentax cameras
589-840-413	Medium Body Module for Minolta MD cameras
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



150 mW IR Illuminator fitted to goggle with 3x lens



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

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

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