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Defence & Security Products Division

PNP-MC

The world's smallest, lightest most versatile
C-mount night vision monocular system





PNP-MC with Camcorder



PNP-MC small and unobtrusive



PNP-MC long range Zoom 6x

PNP-MC is a powerful, multi-purpose pocket-sized monocular night scope. The pocket scope is designed to be used either as a stand-alone night vision device or in combination with a wide variety of standard video, still-photo, CCTV equipment and spotting scopes.

It is ideally suited for covert night-time observation and intelligence-gathering purposes either hand held or using standard photographic media, as well as an effective aid to night-time field missions.

PNP-MC employs a choice of image intensifier tubes characterized by high resolution and a clear, bright image including autogated types. It is equipped with its own IR LED - type illuminator, which provides additional, close-range covert illumination, when ambient light is insufficient - especially effective inside buildings etc. A red LED in the eyepiece illuminates when the IR illuminator is on as does a yellow LED when a low battery state occurs.

A unique feature is the standard C-mount for the objective lens, enabling standard CCTV camera lenses to be used. Special purpose adaptors enable the PNP to be mounted onto the filter thread of the objective lens of a wide variety of 35mm DSLR/SLR and video

cameras (including CCTV cameras). Using the optional optical modules it is possible to mount PNP-MC (and PNP-M) directly onto Canon/Nikon and Pentax DSLR /SLR camera bodies without using the original camera lens or filter thread adaptor. In addition a further range of adaptors allow SLR camera lenses to be used on the PNP-MC in place of CCTV lenses. Thus, standard photographic equipment can be quickly turned into powerful, effective night-time devices, dramatically enhancing your intelligence gathering and observation capability.



PNP-M standard configuration with 1x lens

Technical Specifications

Optical		Physical	
Magnification:	1x	Dimensions	42 mm wide x 67 mm high x 114 mm long (with folded eyecup)
Field of view:	40 Degrees	Weight	293 gms without battery 308 gms with lithium "AA" battery 318 gms with commercial "AA" battery Weight includes eyecup and lens cap
Focus range (m):	0.25-infinity	Tripod mount	Standard 1/4" UNC thread
Objective focal length (mm):	25mm	Construction	Moulded glass filled polymer
Objective F number:	F1.4	Eyeguard	Contoured soft fold back rubber eyecup
Dioptr adjustment:	Minimum +3 to - 6	Environmental	
Eyepiece lens:	25mm glass aperture	Waterproof	Immersion proof 20m 1hr, (only with waterproof lenses) Nitrogen filled
Eye relief	27mm	Temperature	Operation -45°C to +55°C Storage -51°C to +65°C
IR on indicator	Red LED in eyepiece		
Low voltage indicator	Yellow LED in eyepiece		
Electrical			
Power source	Single 1.5V "AA" battery or 1.5V "AA" format lithium type L91 (NSN 6135 01 333 6101) or 1.2V"AA" size rechargeable		
Battery life:	In excess of 40 - 100 hours dependent on tube and battery type		

Typical Values <i>(Tube manufacturers data)</i>	TUBE COMPARISON CHART			
	Gen 2+	Gen 2++HD	XD-4	XR5
Sensitivity (µA/Im)	450	600	700	800
Resolution (lp/mm)	32	57	64	72
Signal to Noise ratio	15	22	23	28
Figure of Merit (FOM) Typical	480	1254	1472	2016

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PNP-MC 2x lens



PNP-MC 3x lens



PNP-MC 6x Zoom lens



PNP-MC/Spotting scope



PNP-MC attached to DSLR lens



Picture using DSLR, camera lens zoomed to fill frame



PNP-MC using Optical Module attached directly to camera body



Picture using Optical Module and DSLR



PNP-MC using DSLR camera lens



PNP-MC using telephoto DSLR camera lens



DSLR Lens

DSLR Lens mount

PNP-MC body (C-mount lens removed)

DSLR Optical Module

DSLR Camera body

PNP-MC/Configurations

Ordering Information - Part Numbers

PNP-MC Night Vision Monocular	
560-0172+	PNP-MC 2+ lightweight, C-mount Night Vision Monocular with 1x mag lens
560-0172++HD	PNP-MC 2++HD lightweight, C-mount Night Vision Monocular with 1x mag lens
560-017XD4	PNP-MC XD-4 lightweight, C-mount Night Vision Monocular with 1x mag lens
560-017XD4A	PNP-MC XD-4A (autogated) lightweight, c-mount Night Vision Monocular with 1x mag lens
560-017XR5	PNP-MC XR5 lightweight, C-mount Night Vision Monocular with 1x mag lens
560-017XR5A	PNP-MC XR5A (autogated) lightweight, C-mount Night Vision Monocular with 1x mag lens
Accessories for PNP-MC	
103-252	25mm lens 1x mag, C-mount with iris & focus (supplied in standard specification PNP-MC)
103-252	25mm lens 1x mag, C-mount with iris & focus (supplied in standard specification PNP-MC)
150-005	50mm lens 2x mag, C-mount with iris & focus
103-751	75mm lens 3x mag C-mount with iris & focus
150-011	Zoom Lens 16mm - 100mm 6x zoom ratio 0.64 to 4x mag, C-mount with iris & focus
103-665	Waterproof 25mm F1.4 lens 1x mag, no iris
103-666	Waterproof 50mm F1.4 lens 2x mag, no iris
550-003F	Relay Lens for use with CCTV camera, NSN 5836-99-366-5780
	Optical Modules to connect PNP-MC 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
589-840-403	T2 mount, use any T2 lens on PNP-MC in place of CCTV lens
589-840-404	M42 mount, use any M42 lens on PNP-MC in place of CCTV lens
589-840-405	Canon EOS mount, use any Canon EOS lens on PNP-MC in place of CCTV lens
589-840-406	Pentax K mount, use any Pentax K lens on PNP-MC in place of CCTV lens
589-840-407	Nikon mount, use any Nikon lens on PNP-MC in place of CCTV lens
589-840-408	Minolta MD mount, use any Minolta MD lens on PNP-MC in place of CCTV lens
589-840-409	Olympus OM mount, use any Olympus OM lens on PNP-MC in place of CCTV lens
550-007	Shuttered Eyeguard, NSN 6650-99-789-6513
560-008	Bridge Kit, converts two PNP-MCs into binoculars, interpupillary distance 61-97mm, NSN 5340-99-934-5341
589-840-300	Camcorder/camera 30mm adaptor
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 (supplied as standard with PNP-MC), NSN 6650-99-595-0780
589-840-042	Camcorder/camera 49mm adaptor (supplied as standard with PNP-MC), NSN 6650-99-323-6896
589-840-041	Camcorder/camera 52mm adaptor, NSN 6650-99-329-3201
589-840-058A	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
560-015	Dioptr Locking Clamp (guarantees dioptr position when using SLR/camcorder)
583-340	150mw illuminator, IR LED, wide, mid and narrow FOV, 805nm, attaches directly to PNP-MC, PNP-M and compatible with 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
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 PNP-MC 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
PNP/821Z	Adaptor to fit PNP-MC to Kowa 800 series spotting scope
589-855	Lanyard

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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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