

PNP-MTHD/PNP-MTHDE & PNPMTSD/PNP-MTSDE



The PNP-MTHD/MTSD monocular range is the result of such close co-operations and is a state of the art world-beating product that is complemented by a wide range of specially developed accessories enabling the user to perform a huge variety of missions based on just one sensor platform --- PNP-MTHD/MTSD.



Usable hand held, helmet mounted, head mounted or tripod mounted, the PNP-MTHD/MTSD does everything. This includes optional anti-mist filters and adaptors for attaching instantly to camcorders, DSLR cameras and CCTV cameras for total darkness surveillance. You can even power the PNP-MTHD/MTSD directly from a vehicle cigarette lighter socket (via optional Pyser adaptor) supply and take the live PAL video directly to any compatible recording device or transmitter at the same time as viewing with the naked eye.

For security and convenience the PNP-MTHD/MTSD monocular on its helmet or head mount auto switches off when flipped up and auto switches on with no switch resetting needed

when flipped back down again. Shuttered rubber eyecups are also available which simply screw on without needing to remove the normal soft fold-back eyecup.

TECHNICAL SPECIFICATIONS

Thermal Image				Controls				
Detector	Amorphous Silicon Microbolometer 7-14 microns wavelength Uncooled			On/Off Polarity White hot / Black hot Electronic zoom 1x, 2x and 4x ratio Screen brightness				
PNP-MTHD	640 x 480 pixel array High Definition			Automatic flip up / switch off, flip down / switch on when used on helmet or head mount with no re-set needed				
PNP-MTSD	384 x 280 pixel array Standard Definition 17 micron pixel pitch 25Hz or 9Hz (optional MTHD only) refresh rate							
Display	Advanced OLED 852 x 600 pixels SVGA Monochrome 35° apparent image horizontal angle of view			Power	2 x CR123 Lithium batteries (give up to 5 hours' continuous operation) E versions have 4 x CR123			
Optics	High quality IR objective lenses Fully coated eyepiece optics 25mm glass aperture 27mm eye relief Dioptre adjustment -6 to +3			Input/Output	Single multipin socket for: PAL video out for recording or transmission. External power via battery power module			
				Physical				
				Model	Length	Height	Width	Weight w/o batteries*
				17mm	96mm	74mm	53mm	295g
				25mm	112mm	74mm	53mm	325g
				35mm	123mm	77mm	55mm	340g
				Please note: E variant (DVR) add 19mm to height and 155g to weight				
				Tripod mount	Standard ¼" UNC thread			
				Construction	Moulded glass filled polymer main body			
				Environmental				
				Waterproof	Water resistant to 1m for 30 min			
				Temperature	Operation -20°C to +55°C Storage -40°C to +65°C			
				Note: All specifications are nominal				

	FOCAL LENGTHS	ACTUAL FOV		
HD 640x480		17mm	25mm	35mm
Detection (m)	500	735	1029	
Recognition (m)	167	245	343	
Identification (m)	83	123	172	
FOV degrees H	37	25	18	
FOV degrees V	28	19	13	
FOV Mils H	652	442	320	
FOV Mils V	489	332	238	
Magnification	1	1.5	2	
SD 384x288		17mm	25mm	35mm
Detection (m)	500	735	1029	
Recognition (m)	167	245	343	
Identification (m)	83	123	172	
FOV degrees H	22	15	11	
FOV degrees V	17	11	8	
FOV Mils H	391	267	190	
FOV Mils V	293	199	142	
Magnification	1	1.5	2	

PNP-MTHDE/PNP-MTSDE has an identical specification to PNP-MTHD/PNP-MTSD but is fitted with a 32GB Digital Video Recorder (DVR). The DVR is powered up only when required to conserve power. Recording at 25fps with capacity for up to 120 hours, PNP-MTHDE/PNP-MTSDE offers an added level of post activity analysis, vital in both operational and training scenarios. The DVR is very simple to operate and easy to download via USB connector.

Tél : +33 (0)6 78 01 77 44 - www.pc-equipment.fr



Digital Video Recorder

Encoding H.264

Input Channel 1 Ch.

Input Impedance 75 ohm Unbalanced

Maximum Input 1.0Vp-p @ 75 Ohm Unbalanced

Output Channel 1 Ch.

Output Impedance 75 ohm Unbalanced

Composite PAL

Maximum Output 1.0Vp-p @ 75 Ohm Unbalanced

Memory 32Gb

Controls

The DVR is controlled via four buttons located on top of the unit

DVR on/off, record, play and stop

Recording

Video Recording Resolution

Format	PAL		
4CIF	704x576		
2CIF	704x288		
CIF	352x288		
Format	high	normal	low
4CIF	1800Kbps	1000Kbps	500Kbps
2CIF	1200Kbps	800Kbps	400Kbps
CIF	1000Kbps	600Kbps	300Kbps

Video Recording Frame Rate

PAL 25,12,8,6,3,1 fps

Storage File system

FAT32. Recording time dependent on resolution, 40 hours to 120 hours.



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