

SM-3DB Pro, Pro Plus and SM-3DB Elit

Digital Day/Night Vision Binocular

For Detection of Boats and Markers, Surveillance, Navigation, SAR, Day or Night in most weather conditions

The SM-3DB Pro, Pro Plus and Elit are the latest in the SM3-DB range of rugged, aluminium alloy night vision binoculars, designed specifically for long-range detection, navigation assistance, covert surveillance and security at sea or on land.

Incorporating state-of-the-art image processing algorithms and up to 80 times automatic gain capability, clear images are achieved in rain, snow and fog, previously considered "impenetrable."

Using high sensitivity CCD sensors and light amplification techniques, the SM3-DB has significant advantages over thermal handheld products which cannot be used in a wheelhouse as they cannot not "see" through glass. With 8x magnification, and 960 x 240 resolution, the SM3-DB offers better range and resolution than many handheld night vision devices and unlike light intensification devices the SM-3DB can be used day or night without damage to the tube or camera.

IR Illuminator

Supplied as standard and designed for use in total darkness at ranges up to 400m, the IR-530-3 (800) is a powerful illuminator which comprises an IR emitting LED with 800nm wavelength. Invisible to the naked eye, the illuminator has output power adjustment and radiation divergence control and is used to "light up" the surrounding area of the target. The module is removable from the Binocular and is powered by a separate 3v battery.



IR-530-3 (800)

For extended range options for high power and dual IR Illuminators are available. (See Technical specification)

Video



The Pro has a standard composite video output for on-screen viewing or connection to a remote DVR.

The Pro Plus and Elite models have an on-board Video Recorder and 8Gb SD card for storing over 7 hours of recording time. Video is downloaded to a PC using the composite to USB cable supplied.



SM-3DB Pro 8x

- New super sensitive CCD camera
- State of the art image processing
- 10 times light amplification for Pro
- 80 times light amplification for Elit
- Anti-fog mode ON/OFF
- Integral VCR with 8Gb SD card
- Records standard composite video
- No damage from bright sunlight
- No blooming or night-light effects
- Tireless viewing with both eyes
- IR Illuminator for use in total darkness
- Large 2.5" Hi res TFT-LCD monitor 960 x 240 resolution
- Rechargeable batteries
- 12v car and 240v battery charger

SM-3DB Pro, Pro Plus and SM-3DB Elit

Technical Specifications

Performance		SM-3DB Pro		SM-3DB Pro Plus		SM3DB Elit	
Visual Magnification		8x		8x		8x	
Lens		F1.6/80 mm		F1.6/80 mm		F1.6 /80 mm	
Resolution:	Day	420 TV lines		420 TV lines		570 TV lines	
	Night	100 ...420 TV lines		100 ...420 TV lines		100 ...570 TV lines	
Field of View		6°		6°		6°	
Light Amplification		Up to 10 times		Up to 10 times		From 10 to 80 times. On/off control	
Contrast mode		Yes		Yes		Yes. On/off switch	
*Range up to:	Day	700m		700m		700m	
	Night	300m		300m		500m	
	Active w/IR	600m		600m		800m	
Range of Operation		0.0005 ...50,000 lux		0.0005 ...50,000 lux		0.0001 ...50,000 lux	
Display Options							
Display				2.5" LTPS TFT LCD 960X240			
Video Output		Composite video RCA connector		Composite Video, RCA-USB 1.1		Composite Video, RCA-USB 1.1	
Video Recorder		No		Integral		Integral	
Video Registration		N/A		640 x 480, 8Gb SD card. 7 hours, MPEG 4.25 fps		640 x 480, 8Gb SD card. 7 hours, MPEG 4.25 fps	
Power							
Battery		4.8v, 4x AA size rechargeable. On-screen "low battery" warning					
External Power Supply		DC 10...12V, 350mA. On-screen "batter charged" advice.					
Battery Life		4 hours typical					
Physical and Environmental							
Operating Temperature				-10 deg.C to +45 deg.C			
Dimensions (mm)				230 x 160 x 85			
Weight (kgs)		1.0		1.2		1.2	
Illuminator Performance		IR-530-3 (800) Standard			IR-530-810 Option		
Output radiation power		100 mW (adjustable)			250 mW (adjustable)		
Wavelength		800 nm			810+/-5 nm		
Radiation divergence		5 to 8°			2 to 5°		
Power supply				3 V, CR 123			
Battery lifetime				Between 4 to 20 hours			
Weight				0.140 kg			
Dimensions				130 x 32 mm			
Reliability				10,000 hours			
Operating temperature				-30°C to +40°C			
All units come complete with							
IR illuminator IR-530-3 adjustable (LED) 100mW (3v)		1	240v/12vDC Adapter		1	<div>Dealer Stamp</div>	
Rechargeable battery		4	Car Charger		1		
Battery CR123		1	User Manual		1		
Carry Case		1					

N.B. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

* Range will vary dependent on the user, light, contrast, environmental conditions and set up.

All specifications are believed to be accurate at the time of going to print. No responsibility can be accepted for differences between this specification and the product shipped.

Dealer Stamp